

Global Learning Partnerships Catalog 2019–2020



19-192

**Includes accelerated, online and off-site
undergraduate programs and all graduate
and post-baccalaureate programs**

Table of Contents

Rowan University In Brief	I
From Normal to Extraordinary: A History of Rowan University	I
Mission	3
Using This Catalog	3
Academic Calendar 2019-2020	4
About the Division of Global Learning & Partnerships	5
The Division of Global Learning & Partnerships in Brief	5
Rowan Global Academic Affairs	6
Rowan Global Policies	6
Office of Graduate and Professional Studies	7
Rowan Online	7
Office of Advising & Student Information Services	7
Financial Aid	8
Office of the University Registrar	10
Bursar	10
Office of Winter, Summer, and Special Sessions	11
Rowan Global Marketing and Enrollment Management	11
Applying to Rowan Global	12
Undergraduate Programs	13
Academic Major Programs	13
Second Major or Minor	13
General Education at Rowan University	13
Rowan Core	15
The Rowan Experience	17
Students Transferring from a New Jersey Community College to Rowan	17
Graduate & Post-Baccalaureate Programs	18
Tuition & Fees	19
Office of the President	20
Division of Academic Affairs	20
Division of Diversity, Equity and Inclusion	21
Social Justice, Inclusion and Conflict Resolution	21
Office of Student Equity and Compliance	22
Achieving Success through Collaboration, Engagement and Determination (ASCEND)	22
Creating Higher Aspiration and Motivation Project (CHAMP)	23
Faculty Center for Excellence in Teaching and Learning	23
Division of University Research	24
Division of Student Affairs	26
Campus Recreation	26

Card Services Office	27
Community Standards	27
Counseling and Psychological Services	27
Healthy Campus Initiatives	28
Student Center & Campus Activities	28
Student Health Services	28
Volunteerism, Community Engagement & Commuter Services	29
University Advising Services	29
Academic Success Center	30
The International Center	30
Division of Information Resources & Technology (IRT)	30
Division of Medical Initiatives and Affiliated Campuses	31
Cooper Medical School at Camden	31
Rowan University School of Osteopathic Medicine	31
Rowan University Graduate School of Biomedical Sciences	32
Rowan University Libraries	32
Policies and Procedures	33
William G. Rohrer College of Business	34
Master of Business Administration (MBA)	37
Master of Science in Finance	39
Certificate of Advanced Graduate Study (Post-MBA CAGS) Overview	40
Certificate of Advanced Graduate Study in Accounting (CAGS)	40
Certificate of Advanced Graduate Study in Finance (CAGS)	41
Certificate of Advanced Graduate Study in Management (CAGS)	41
Certificate of Advanced Graduate Study in Management Information Systems/MIS (CAGS)	42
Certificate of Graduate Study in Accounting (COGS)	43
Certificate of Graduate Study in Business (COGS)	44
Certificate of Graduate Study in Management Information Systems/MIS (COGS)	44
College of Communication & Creative Arts	46
Master of Arts in Strategic Communication (M.A.)	48
Master of Arts in Writing (M.A.)	49
Certificate of Graduate Study in Creative Writing (COGS)	50
Certificate of Graduate Study in Editing & Publishing for Writers (COGS)	50
Certificate of Graduate Study in Integrated Marketing Communication & New Media (COGS)	51
Certificate of Graduate Study in School Public Relations (COGS)	51
Certificate of Graduate Study in Writing, Composition & Rhetoric (COGS)	52
Certificate of Graduate Study in Writing & New Media (COGS)	53
Bachelor of Arts in Applied Professional Communication (B.A.)	54
Certificate of Undergraduate Study in Professional Communication (CUGS)	55

College of Education	56
Doctor of Education in Educational Leadership (Ed.D.)	62
Doctor of Philosophy in Education (Ph.D.)	64
Educational Specialist in School Psychology – School Psychologist Certification (Ed.S.)	66
Master of Arts in Counseling in Educational Settings (M.A.)	67
Master of Arts in Educational Technology (M.A.)	68
Master of Arts in Higher Education (M.A.)	69
Master of Arts in Reading Education (M.A.)	71
Master of Arts in STEM Education (M.A. STEM)	72
Master of Arts in School Administration (M.A.)	73
Master of Arts in School Psychology (M.A.)	74
Master of Arts in Special Education (M.A.)	75
Master of Arts in Urban Education and Community Studies (M.A.)	76
Master of Education in Teacher Leadership (M.Ed.)	78
Master of Science in Teaching in Subject Matter Education (M.S.T.)	79
Master of Science in Teaching in Subject Matter Education – Theatre Education (M.S.T.)	80
Certificate of Advanced Graduate Study in Chief School Administrator Certificate (CAGS)	81
Certificate of Advanced Graduate Study in Community College Leadership (CAGS)	82
Certificate of Advanced Graduate Study in Educational Leadership (CAGS)	83
Certificate of Advanced Graduate Study in Principal Preparation (CAGS)	83
Certificate of Advanced Graduate Study in Student Assistance Coordination (CAGS)	84
Certificate of Graduate Study in Autism Spectrum Disorders (COGS)	85
Certificate of Graduate Study in Early Childhood Coaching and Technical Assistance (COGS)	85
Certificate of Graduate Study in Early Childhood Education (COGS)	86
Certificate of Graduate Study in Early Childhood Special Education (COGS)	87
Certificate of Graduate Study in Educational Technology (COGS)	88
Certificate of Graduate Study in English as a Second Language (COGS)	88
Certificate of Graduate Study in Enhancing Instruct'l Practices in Health Professions Ed. (COGS)	89
Certificate of Graduate Study in Interprofessional Health Organizations Leadership (COGS)	90
Certificate of Graduate Study in Learning Disabilities (COGS)	90
Certificate of Graduate Study in Reading (COGS)	91
Certificate of Graduate Study in Reading/Writing Literacy (COGS)	92
Certificate of Graduate Study in Special Education (COGS)	92
Certificate of Graduate Study in Teaching and Learning (COGS)	93
Learning Disabilities Teacher-Consultant Certification (LDTC)	94
Supervisor Certification	95
Graduate Endorsement: Bilingual/Bicultural Education	95
Graduate Endorsement: Teacher of Students with Disabilities	96
Post-Baccalaureate Certification: Teacher of Reading	97

Post-Baccalaureate Certification: Teacher of Students with Disabilities	98
Post-Baccalaureate Certification: School Nursing	99
Undergraduate Endorsement: Teacher of Driver Education	100
Bachelor of Arts in Inclusive Education (B.A.)	100
Henry M. Rowan College of Engineering	102
Doctor of Philosophy in Biomedical Engineering (Ph.D.)	105
Doctor of Philosophy in Engineering (Ph.D.)	106
Master of Engineering Management (M.E.M.)	110
Master of Science in Engineering Overview (M.S.)	111
Master of Science in Engineering (M.S.)	112
Master of Science in Biomedical Engineering (M.S.)	113
Master of Science in Chemical Engineering (M.S.)	114
Master of Science in Civil & Environmental Engineering (M.S.)	115
Master of Science in Electrical & Computer Engineering (M.S.)	117
Master of Science in Mechanical Engineering (M.S.)	118
Certificate of Graduate Study in Combat Systems Engineering (COGS)	120
Certificate of Graduate Study in Construction Management (COGS)	121
Certificate of Graduate Study in Engineering Analytics and Quality Control (COGS)	121
Certificate of Graduate Study in Project Management (COGS)	123
Bachelor of Arts in Construction Management	124
Bachelor of Science in Surveying Engineering Technology (B.S.)	125
Certificate of Undergraduate Study in Construction Management Practices (CUGS)	126
College of Performing Arts	127
Master of Arts in Arts Administration (M.A.)	129
Master of Arts in Music Education (M.A.)	129
Master of Music Overview	130
Master of Music: Composition (M.M.)	131
Master of Music: Conducting (Instrumental or Choral) (M.M.)	132
Master of Music: Jazz Studies (M.M.)	134
Master of Music: Performance (Instrumental or Vocal) (M.M.)	134
Post-Baccalaureate Certificate in Music Therapy	136
College of Humanities & Social Sciences	138
Master of Arts in Criminal Justice (M.A.)	141
Master of Arts in History (M.A.)	142
Certificate of Graduate Study in Diversity and Inclusion (COGS)	144
Certificate of Graduate Study in Global History (COGS)	144
Certificate of Graduate Study in History (COGS)	145
Certificate of Graduate Study in Holocaust and Genocide Education (COGS)	146
Certificate of Graduate Study in Public Policy (COGS)	146

Certificate of Graduate Study in Urban Health Disparities (COGS)	147
Bachelor of Arts in Disaster Preparedness and Emergency Management (B.A.)	148
Bachelor of Arts in Human Services (B.A.)	150
Bachelor of Arts in Law & Justice Studies (B.A.)	151
Bachelor of Arts in Liberal Studies: Humanities/Social Science (B.A.)	152
Bachelor of Arts in Sociology (B.A.)	153
Certificate of Undergraduate Study in Human Services Administration (CUGS)	155
Certificate of Undergraduate Study in Human Services Criminal Justice (CUGS)	156
Certificate of Undergraduate Study in Human Services Direct Care (CUGS)	156
College of Science & Mathematics	158
Doctor of Philosophy in Clinical Psychology (Ph.D.)	161
Master of Arts in Applied Behavior Analysis (M.A.)	163
Master of Arts in Clinical Mental Health Counseling (M.A.)	164
Master of Arts in School Psychology (M.A.)	165
Master of Arts in Mathematics (M.A.)	166
Master of Science in Bioinformatics (M.S.)	168
Master of Science in Computer Science (M.S.)	170
Master of Science in Data Analytics (M.S.)	171
Master of Science in Pharmaceutical Sciences (M.S.)	173
Certificate of Advanced Graduate Study in Applied Behavior Analysis (CAGS)	174
Certificate of Advanced Graduate Study in Clinical Mental Health Counseling (CAGS)	175
Certificate of Graduate Study in Computational Data Analytics (COGS)	176
Certificate of Graduate Study in Cyber Security (COGS)	177
Certificate of Graduate Study in Health Data Management (COGS)	178
Certificate of Graduate Study in Industrial Chemistry (COGS)	178
Certificate of Graduate Study in Networks (COGS)	179
Certificate of Graduate Study in Research and Leadership in Applied Behavior Analysis (COGS)	180
Certificate of Graduate Study in Software Engineering (COGS)	180
Certificate of Graduate Study in Web Development (COGS)	181
Post-Baccalaureate Certificate in Applied Behavior Analysis	182
Post-Baccalaureate Certificate in Pre-Health Studies	182
Bachelor of Arts in Psychology (B.A.)	184
Certificate of Undergraduate Study in Fundamental Computing (CUGS)	185
School of Health Professions	186
Master of Arts in Wellness & Lifestyle Management (M.A.)	188
Master of Science in Athletic Training (M.S.)	189
Master of Science in Nutrition and Dietetics (M.S.)	190
Master of Science in Nursing (M.S.N.)	191
Certificate of Graduate Study in Wellness Coaching (COGS)	193

Bachelor of Arts in Health Studies (B.A.)	194
Bachelor of Science in Nursing (B.S.N.)	195
School of Earth & Environment	197
Post-Baccalaureate Certificate in Cartography & GIS	198
Cooper Medical School of Rowan University	199
Post-Baccalaureate Certificate in Advanced Premedical Studies	200
Faculty List	201
Course Descriptions	229
Organization of the University	421
Executive Administration	423
General Information	432
Campus Buildings	432
General Information	436
Directions to Campus	437
The Emeriti	438
Accreditations	454

Rowan University In Brief

Type

Comprehensive, coeducational, non-sectarian, state-supported, public research university, opened in 1923.

Colleges and Schools

Business, Communication & Creative Arts, Education, Engineering, Humanities & Social Sciences, Performing Arts, and Science & Mathematics, Cooper Medical School, Graduate School of Biomedical Sciences, School of Earth and Environment, School of Health Professions, and School of Osteopathic Medicine.

Degrees

Bachelor of Arts (B.A.), Bachelor of Fine Arts (B.F.A), Bachelor of Music (B.M.), Bachelor of Science (B.S.), Bachelor of Science Nursing (B.S.N.), Bachelor of General Studies (B.G.S.), Master of Arts (M.A.), Master of Business Administration (M.B.A.), Master of Education (M.Ed.), Master of Engineering Management (M.E.M.), Master of Music (M.M.), Master of Science (M.S.), Master of Science Nursing (M.S.N.), Master of Science Teaching (M.S.T.), Educational Specialist (Ed.S.), Doctor of Osteopathic Medicine (D.O.), Doctor of Education (Ed.D), Doctor of Medicine (M.D.), and Doctor of Philosophy (Ph.D.).

Campuses

Main Campus – Glassboro, NJ (approximately 20 miles southeast of Philadelphia, PA), Camden, and Stratford, NJ.

Size

As of Fall 2018, 19,000 students.

From Normal to Extraordinary: A History of Rowan University

Rowan University has evolved from its humble beginning in 1923 as a normal school, with a mission to train teachers for South Jersey classrooms, to a comprehensive public research university with a strong regional reputation.

In the early 1900s, many aspiring New Jersey teachers lacked proper training because of a shortage of schools in the state that provided such an education. To address the problem in South Jersey, the state decided to build a two-year training school for teachers, known then as a normal school.

The town of Glassboro was an early favorite because of its excellent rail system, harmonious blend of industry and agriculture, natural beauty and location in the heart of South Jersey. Several towns in the region competed to be the site of the new normal school because of the economic benefit and prestige such an institution would bring.

In 1917, to sway the decision in their favor, 107 Glassboro residents raised more than \$7,000 to purchase 25 acres, which they offered to the state for free if the borough were selected as the site. The tract of land included the Whitney mansion (now known as Hollybush) and carriage house. Before the purchase, the entire property belonged to the Whitney family, prominent owners of the Whitney Glass Works during the 1800s. This show of support, along with the site's natural beauty, convinced the selection committee that Glassboro was the perfect location.

A Strong Foundation

In September 1923, Glassboro Normal School opened with 236 students arriving by train to convene in the school's first building, now called Bunce Hall. Dr. Jerohn Savitz, the institution's first president, expanded the curriculum as the training of teachers became more sophisticated.

Despite the rigors of the Depression, the program was expanded to four years in 1934, and in 1937 the school changed its name to New Jersey State Teachers College at Glassboro. The college gained a national reputation as a leader in the field of reading education and physical therapy when it opened a clinic for children with reading disabilities in 1935 and added physical therapy for the handicapped in 1944. The college was one of the first in the country to recognize these needs and was in the forefront of the special education movement.

Rowan's second president, Dr. Edgar Bunce, created a junior college program in 1946 to serve World War II veterans taking advantage of the GI Bill.

In the 1950s, Dr. Thomas Robinson, the University's third president, expanded the curriculum, increased enrollment and added several buildings to the campus. In 1958, the school's name was changed to Glassboro State College to better reflect its mission.

A Historic Summit

The University received worldwide attention when it hosted a historic summit conference between President Lyndon Johnson and Soviet Premier Aleksei Kosygin in Hollybush. The University was chosen because of its strategic location midway between Washington, D.C., and the United Nations in New York City, where Kosygin was scheduled to speak. The meetings between the two leaders, held June 23-25, 1967, presaged a thaw in the Cold War and eased world tensions.

Rapid Growth to Serve Needs

The University's fourth president, Dr. Mark Chamberlain, guided the college through its next phase of growth as enrollment doubled and G.S.C. became a multi-purpose institution. As new majors and a Business Administration Division were added, four divisions grew into schools and a board of trustees was formed. In 1969, the University opened a campus in Camden to expand its educational services. With a 1978 Division III National Championship in baseball, the first of 11 national championships for the institution, the athletic program established itself as one of the premier athletic programs in the country.

The college's fifth president, Dr. Herman James, assumed the leadership of the institution in 1984. Under his direction, Rowan expanded by establishing the first doctoral program among the state's public institutions and adding the Colleges of Engineering and Communication. Dr. James was also responsible for the construction of Campbell Library, the Student Recreation Center and Rowan Hall, home to the College of Engineering.

A Transformative Gift

In July 1992, industrialist Henry Rowan and his wife Betty donated \$100 million to the institution, then the largest gift ever to a public college or university. Later that year, the school changed its name to Rowan College of New Jersey to recognize its benefactors' generosity. The Rowans' only request was that a College of Engineering be created with a curriculum that would address the shortcomings of engineering education.

The college achieved University status in 1997 and changed its name to Rowan University under Dr. James' leadership. The College of Engineering quickly earned national accolades for its successful new curriculum.

Dr. Donald J. Farish was appointed Rowan's sixth president in July 1998. Under his leadership, the University implemented an aggressive improvement plan that addressed academic and student support initiatives as well as campus construction and renovation projects.

Major construction projects included the University townhouses; Science Hall; Education Hall; and the Samuel H. Jones Innovation Center, the first building of the South Jersey Technology Park at Rowan University.

During his tenure, the University also entered into a public-private partnership that led to the construction of Rowan Boulevard, a \$426-million, mixed-use redevelopment project that links the campus with Glassboro's historic downtown. The corridor features student and market-rate housing, a Barnes & Noble collegiate superstore, a Courtyard at Marriott Hotel, an urgent care center and numerous retail and dining outlets.

A Broader Mission

During this period, Rowan founded Cooper Medical School of Rowan University—the first new medical school in New Jersey in more than 35 years and the first-ever M.D.-granting four-year program in South Jersey—in partnership with Cooper University Health Care.

The medical school welcomed its first class in the summer of 2012 into a new, six-story building adjacent to Cooper University Hospital in Camden. Close to 3,000 students applied for 50 spots in the medical school's charter class, which graduated in May 2016.

The Board of Trustees named then-Provost Dr. Ali A. Houshmand as interim president in July 2011 and then the University's seventh president in June 2012.

As provost, Dr. Houshmand established the College of Graduate and Continuing Education and started Rowan's online education program, which now are part of Global Learning & Partnerships. As president, he dramatically reduced institutional expenses and increased revenue while expanding enrollment and academic programs.

In 2016-17, the University opened Holly Pointe Commons, freshman and sophomore housing strategically located on Rt. 322, and new buildings for the William G. Rohrer College of Business and Henry M. Rowan College of Engineering, which will enable the high-demand programs to double their enrollment.

N.J. Medical & Health Sciences Education Restructuring Act

On July 1, 2013, Rowan again changed dramatically when the New Jersey Medical and Health Sciences Education Restructuring Act went into effect. The Restructuring Act designated Rowan as New Jersey's second comprehensive public research institution, transferred the University of Medicine and Dentistry of New Jersey's School of Osteopathic Medicine to Rowan and partnered Rowan with Rutgers-Camden to create health sciences programs in the City of Camden.

Rowan became the second institution in the nation to have both a D.O.-granting medical school (RowanSOM) and an M.D.-granting medical school (CMSRU). The transfer of programs also included the Graduate School of Biomedical Sciences in Stratford and gave Rowan its third campus, with Stratford joining Glassboro and Camden, New Jersey, as homes to Rowan programs.

Recognized Nationally

Formerly considered a top Northern Regional University by U.S. News & World Report, Rowan for 2018 was reclassified a National University after securing Carnegie doctoral research university status. The magazine for 2019 ranked Rowan #91st among National public research universities and #171 overall (out of 312). U.S. News also ranked the Henry M. Rowan College of Engineering #23 (tied) among undergraduate engineering schools. The Princeton Review annually ranks the William G. Rohrer College of Business among America's best business schools.

Growing Opportunities

Rowan continues to expand programs and partnerships to improve access to affordable four-year undergraduate degrees. Among the most recent was a June 2015 partnership with Burlington County College (now Rowan College at Burlington County), which followed a partnership two years earlier with Gloucester County College (now Rowan College of South Jersey). The partnerships enable students to earn Rowan bachelor's degrees at the community college or transfer seamlessly to the University after earning an associate degree and meeting standards. Today, Rowan's more than 19,500 students can select from among 80 bachelor's, 44 master's, seven doctoral and two professional (medical) degree programs — along with undergraduate and post-baccalaureate certificates—in colleges and schools across three campuses.

A Rising Research University

Since its 1923 founding, Rowan has enjoyed many truly big years but the past few have been extraordinary. Since the 2016-17 school year, Rowan attained Carnegie classification as a doctoral research university, (now with Carnegie R2 [high research activity] status); alumni Jean and Ric Edelman committed \$25 million to preserve and expand the Rowan University Fossil Park (which was renamed in their honor); the University opened three new academic buildings and a privately built residence hall, and added eight new academic programs. Rowan awarded the first \$5 million of its 10-year, \$50 million commitment to significantly enhance medical and bioscience research in Camden; The Chronicle of Higher Education 2018-19 Almanac named the school the nation's sixth-fastest growing public doctoral institution; and Rowan saw total enrollment and interest in the University continue to rise. From the modest Normal School begun 95 years ago, Rowan has evolved into an extraordinary, comprehensive research institution, which also includes the South Jersey Technology Park in nearby Mantua and Harrison townships, focused on improving the quality of life for the citizens of New Jersey and the region.

Mission

Rowan seeks to improve and expand the model for public higher education by being inclusive, agile and responsive, offering diverse scholarly and creative educational experiences, pathways, environments and services to meet the needs of all students; maintaining agility by strategically delivering organizational capacity across the institution; and responding to emerging demands and opportunities regionally and nationally.

Rowan's Strategic Pillars are:

Access

Rowan is committed to expanding quality educational opportunities for students by increasing our enrollment capacity; supporting student success; utilizing an increasing array of pedagogies and platforms; and creating new pathways to undergraduate, graduate, post-graduate and professional studies.

Affordability

We are committed to keeping education affordable by managing costs, diversifying our revenue streams, limiting student debt, restricting tuition increases to the rate of inflation and enhancing internship and employment opportunities for students and graduates.

Quality

We are committed to providing rigorous and engaging educational experiences; supporting scholarly, creative and research activities; maintaining a vibrant and healthy campus life with a richly intellectual, cultural and artistic environment and ensuring a safe, supportive and inclusive culture that respects and values the diversity of all of our members.

Economic Engine

Rowan is committed to benefiting our local and state communities by partnering with and investing in regional businesses and organizations that contribute to furthering our mission; preparing an educated citizenry and skilled workforce; enhancing the health of our citizens and the quality of life; and developing innovative products, services and ideas.

Using This Catalog

Rowan University has multiple catalogs:

- The Undergraduate Catalog includes the program requirements and course descriptions for all traditional-format undergraduate programs (courses offered on-campus and across 16-weeks each term).
- The Global Learning & Partnerships (Rowan Global) Catalog includes program requirements and course descriptions for accelerated, online, and off-site undergraduate programs and all graduate and post-baccalaureate programs.
- The Cooper Medical School of Rowan University (CMSRU) Catalog describes the curriculum and policies for the Doctor of Medicine (MD) program.
- The Rowan University School of Osteopathic Medicine Catalog describes the curriculum and policies for the Doctor of Osteopathic Medicine (DO) program.
- The Graduate School of Biomedical Sciences (GSBS) Catalog describes the curriculum and policies for the academic programs offered by GSBS.

Academic Calendar 2019-2020

Fall Semester 2019

Semester Classes Begin	Tuesday, September 3
Thanksgiving Recess (no classes)	Thursday-Saturday, November 28-30
Semester Classes End	Tuesday, December 10
Reading & Review (no classes)	Wednesday, December 11
Finals Week	Thursday-Wednesday, December 12-18 (includes Saturday, December 14)
Flexible Time Day	Thursday, December 19

Spring Semester 2020

Semester Classes Begin	Tuesday, January 21
Spring Break (no classes)	Monday-Saturday, March 16-21
Semester Classes End	Thursday, April 30
Reading & Review (no classes)	Friday, May 1
Finals Week	Saturday-Friday, May 2-May 8 (includes Saturday, May 2)
Commencement Week	Saturday, May 9; Monday-Friday, May 11-15

Summer Sessions 2020

Memorial Day (no classes)	Monday, May 25
Fourth of July (no classes)	Friday, July 3

Summer Sessions are Subject to Change. Visit the Office of Winter, Summer, and Special Sessions for the Term calendars www.rowan.edu/winter/summer/calendars.

NOTE:

Please note that this calendar applies to traditional programs offered on the Glassboro and Camden campuses during the fall and spring semesters. Visit www.rowan.edu/university/academic/calendars and use the links listed for calendars from The Division of Global Learning & Partnerships, Office of Winter, Summer, and Special Sessions, the Cooper Medical School of Rowan University, the Rowan University School of Osteopathic Medicine, and the Graduate School of Biomedical Sciences.

About the Division of Global Learning & Partnerships

The Division of Global Learning & Partnerships in Brief

856.256.4747
global@rowan.edu
www.rowanu.com

Jeff Hand
Senior Vice President of Student Affairs
Enterprise Center, Third Floor
856.256.5186
handj@rowan.edu

Kenneth E. Hartman
Interim Vice President
Enterprise Center, Third Floor
856.256.5576
hartmank@rowan.edu

Lorraine C. Ricchezza
Assistant Vice President, Academic Affairs
Enterprise Center, Third Floor
856.256.5130
ricchezza@rowan.edu

Elizabeth Regan-Butts
Assistant Vice President, Marketing
Enterprise Center, Second Floor
856.256.5122
regan-butts@rowan.edu

Saudia Beverly
Director of Admissions & Enrollment Management
Enterprise Center, Second Floor
856.256.5147
beverly@rowan.edu

Michael Ciocco
Director of Rowan Online
Enterprise Center, Second Floor
856.256.5368
ciocco@rowan.edu

The Division of Global Learning & Partnerships is Rowan University's vehicle to identify and meet the specific needs of the adult student population. Our students include recent college graduates pursuing graduate or doctoral studies, returning college students pursuing the completion of a baccalaureate degree, employees/employers seeking professional development, and life-long learners seeking personal enrichment. The Division places foremost emphasis on making quality education accessible, convenient, and affordable through delivery modes that address the vast range of adult student learning needs and preferences. In partnership with Rowan University's nine academic colleges, Rowan Global currently offers several doctoral/specialist level programs (including both Ph.D. and Ed.D. programs), over 50 master's level programs (including concentrations), more than 50 graduate-level and post-baccalaureate certificate programs and endorsements, and a host of accelerated undergraduate degree-completion programs.

Rowan Global course/program offerings and corresponding services are classified into four major categories:

- **Traditional-format graduate-level** (including post-baccalaureate and doctoral) courses/programs for both part-time and full-time students. Courses are commonly face-to-face, 16 weeks, and held on one of Rowan's campuses.
- **Non-traditional format courses/programs at every level** (undergraduate, post-baccalaureate, graduate, doctoral). Courses are offered online, hybrid, off-site and at our partner college campuses, Saturday-only, in an accelerated 7-week timeline, or some combination of these.

- All Rowan University **summer and intersession** courses.
- **Professional development and personal enrichment** non-credit courses, workshops, and seminars.

Locations and Campus Information

The Division of Global Learning & Partnerships is located on Rowan University's Main Campus in Glassboro, New Jersey, and in the University District in Camden, New Jersey.

Rowan Global's Glassboro campus is housed inside the Enterprise Center, a mixed-use facility on the newly developed Rowan Boulevard next to the Barnes and Noble University Bookstore, and among several eateries, health services, and luxury apartments and condominiums.

The Camden campus is located in the historic First National Bank and Trust Company building and annex, on the corner of Cooper and Broadway. The Camden campus provides an array of services for students, faculty, and staff, including access to the Barnes and Noble University District Bookstore and Café and the Rutgers University Paul Robeson Library.

Rowan Global's Camden campus offers a variety of undergraduate degree-completion programs, including Law and Justice, Sociology, Human Services, and Disaster Preparedness and Emergency Management; a Doctorate in Education; and several academic enrichment programs designed to advance access to higher education among diverse populations, including the acclaimed Intensive English Language Program for English Language Learners (IELP) and the Achieving Success through Collaboration, Engagement, and Determination (ASCEND) program.

While parking privileges are available on both campuses, Rowan University also provides a daily courtesy shuttle that runs between the Glassboro and Camden campuses.

Rowan Global Academic Affairs

Lorraine C. Ricchezza

Assistant Vice President, Academic Affairs

Enterprise Center, Third Floor

856.256.5130

ricchezza@rowan.edu

Elizabeth Mercado

Executive Assistant

Enterprise Center, Third Floor

856.256.5130

mercado@rowan.edu

Academic Affairs at the Division of Global Learning and Partnerships oversees Rowan Global academic policy, courses, and undergraduate, graduate, and degree completion programs. Comprised of the Office of Graduate and Professional Studies (OGPS), Academic Affairs collaborates with the colleges on main campus, in addition to Rowan University's partner colleges, to develop, offer, and sustain innovative programming for the contemporary learner. The unit oversees the content in the graduate catalog, as well as the outreach and support for students enrolled in Rowan Global programs who are in academic difficulty. Academic Affairs also provides support to the Alpha Epsilon Lambda (AEL) Honor Society for graduate students, and collaborates with the other units within Rowan Global to ensure that processes are followed regarding program development, launch, and maintenance.

Rowan Global Policies

Rowan Global Academic Affairs works with the Provost's Office, the Senior Vice President of the Division of Global Learning and Partnerships, and the Graduate Advisory Council (GAC) to ensure that Rowan Global policy is communicated and applied fairly and consistently to all students. Every student pursuing studies at Rowan University is expected to adhere to the university's policies and procedures outlined on the Rowan University Policies website located at <https://confluence.rowan.edu/display/POLICY/Home>.

The Rowan University Policies website provides information regarding policies and practices applied university-wide to undergraduate, graduate, and post-baccalaureate students. The University expects students to access and review the website in order to remain informed of university-wide rules, regulations, and practices in the Rowan catalog or issued by the faculty, administration, and the Rowan University Board of Trustees.

In addition to university-wide policies on the Rowan University Policies website, students enrolled in programs or courses offered by Rowan Global should be aware that they may be required to follow additional and/or different policies, practices, and/or deadlines, such as application deadlines, registration deadlines, and dropping, adding, or withdrawing from courses/programs. These policies can be found in the Graduate Policies and Procedures Policy Guide located here <https://rowanu.com/academic-resources/graduate-policies>. Any questions regarding Rowan Global policies may be directed to Rowan Global Academic Affairs.

Office of Graduate and Professional Studies

Lorraine C. Ricchezza
Assistant Vice President, Academic Affairs
Enterprise Center, Third Floor
856.256.5148
ricchezza@rowan.edu

Sheri K. Rodriguez
Associate Director, Office of Graduate and Professional Studies
Enterprise Center, Third Floor
856.256.5157
rodriguezs@rowan.edu

The Office of Graduate and Professional Studies (OGPS) works closely with Rowan University's academic and partner colleges, schools, and off-site partners to present innovative programs that meet the needs of contemporary learners and their desired academic and career paths.

The unit oversees the coordination of nationally and internationally acclaimed programs of graduate study, including master and doctoral level programs, along with certificates of graduate study (COGS) and advanced graduate study (CAGS), houses degree completion programs for contemporary learners returning to earn their degrees; develops, promotes, and celebrates programs that are delivered at several convenient times/locations in various modes of delivery, and provides oversight and administrative support for all Rowan Global program development, updates, and launches.

OGPS works collaboratively with admissions, marketing, enrollment, and the academic colleges to ensure the successful inception, development, and sustaining of successful programming. The office maintains a strong relationship with and provides support to the Upsilon Chapter of Alpha Epsilon Lambda (AEL), an honor society dedicated to graduate and professional students that participates in scholarship and charitable-related activities.

Rowan Online

Michael Ciocco
Director
Enterprise Center, Second Floor
856.256.5164
ciocco@rowan.edu

Rowan Online, develops, delivers, and supports online courses and programs. Rowan online courses are offered in a Learning Management System and are characterized by a user-friendly environment that incorporates multi-media technologies, including digital slide shows, audio, and video to deliver course content as effectively as in the classroom setting. Students engage one another and the course instructor using internet-based communication tools including email, chat rooms, and online discussion boards. Rowan Online provides technical support, including after-hours support for emergencies.

Rowan Global's online programs, with little exception, are delivered using either all online accelerated coursework or using a combination of online and face-to-face coursework (hybrid). Both students enrolled in online or hybrid courses are Rowan students with the same access to Rowan's state-of-the-art facilities and on-campus resources.

Office of Advising & Student Information Services

Rory McElwee
Vice President for Student Affairs
Savitz Hall
856.256.5187
mcelwee@rowan.edu

Advising
Laurie Baker
Director, OASIS
Enterprise Center, Third Floor
856.256.5794
bakerl@rowan.edu

Student Information Services

Georgann Watt

Supervisor, Student Information Services

Enterprise Center, Third Floor

856.256.4719

watt@rowan.edu

The Office of Advising & Student Information Services (OASIS) provides onboarding and registration support, academic advising, and related services to students enrolled in undergraduate, post baccalaureate, graduate, and certificate programs administered by Rowan Global.

In collaboration with Rowan University faculty and staff, OASIS provides outstanding service and expedient access to higher education for a growing population of national and international students across a range of course delivery modes, including face-to-face, hybrid, and fully-online programs.

Transfer Credit Processing

Graduate students seeking to transfer credits must submit a Graduate and Post-Bac Transfer Credit Evaluation Form (available for download at www.rowanu.com/forms) and all required supporting materials (official transcripts, syllabi, course descriptions) at the time of application.

Most graduate programs at Rowan University allow incoming matriculated students to transfer up to twelve (12) graduate-level credits provided that a grade of B or better was earned, the courses and credits are deemed equivalent to required courses and credits in the program, and the coursework was taken within the past 10 years. For the transfer credit policy for a particular graduate program, please contact the program's Academic Advisor.

Rowan Global undergraduates with questions or concerns about transfer of credit should contact globalstudent@rowan.edu for assistance.

Registration

For matriculated Rowan Global students, registration plans vary according to program. Information regarding how and when to register will be included in student orientation and registration information provided post-matriculation. Any registration-related questions should be directed to OASIS staff at globalstudent@rowan.edu.

Senior Privilege

OASIS coordinates the Senior Privilege process at Rowan that allows qualified students to enroll in up to six (6) credits of graduate-level courses prior to completion of a Bachelor's degree and while paying the undergraduate tuition rate. Seniors (students with 90+ earned hours) at Rowan University who have at least a 3.00 cumulative undergraduate GPA may request permission to register for one graduate level course per semester through the Senior Privilege process by submitting the proper forms (available at www.rowanu.com/forms) to globalstudent@rowan.edu before the close of registration for the term in question. For more details about this policy and process please consult: www.rowanu.com/policies.

Financial Aid

Pamela Gordy

Director

Savitz Hall, 1st Floor

856.256.4250

financialaid@rowan.edu

The Financial Aid Office strives to:

- Provide access to higher education by effectively managing federal, state, institutional, and private financial resources while adhering to any applicable laws, regulations, and policies;
- Implement strategies to help recruit, retain, and graduate a diverse and talented student body; and,
- Guide students and parents with financial aid information and resources that will enable students to achieve their educational goals.

Types of Aid

There are generally four main types of aid: Grants, Loans, Work-Study, and Scholarships. There may also be special aid options for those who are already NJ Stars, EOF recipients, transfer students, or those eligible for veteran's benefits.

Applying for Aid

Rowan Global students, regardless of how their course is offered (online, off-campus, hybrid, or face-to-face), must follow the same process for financial aid as other Rowan students. To apply for financial aid, all students must complete the Free Application for Federal Student Aid (FAFSA) online at www.fafsa.ed.gov. (Rowan's FAFSA code is 002609.) Applying for the FAFSA begins the federal aid process and since it is separate from any individual school's admission process, a student

does not need to be admitted to an institution to begin. Rowan Global strongly encourages its students to apply for aid early and to apply for any academic year in which they are eligible.

Eligibility

Degree granting programs are academic programs that lead to a degree including bachelor's, master's, doctoral, and specialist programs. While a student does not need to be admitted to apply for federal aid, a student must be admitted and matriculated (have officially accepted the offer of admission) via the signed Rowan Global Student Guide & Agreement Signature Page in order to receive federal aid should they qualify. Financial Aid cannot be packaged or applied to any Rowan student account until you are officially matriculated into an academic program. It is also not possible to apply financial aid retroactively to a previous term, even within the same academic year.

You must apply each academic year for federal aid; and, while you may be awarded an estimated aid package for the year, aid is only officially disbursed by Rowan's Financial Aid Office each fall or spring term to matriculated students who are registered for the appropriate minimum number of credits that particular term. This could mean that you receive aid one term but not the next. Also keep in mind that aid might not be applicable for those matriculated Rowan Global students who begin a program mid-term because they are usually only taking one course which does not usually qualify for the federal part-time minimum enrollment for aid.

For an undergraduate-level student 6 credit hours per term is the minimum required to qualify for federal financial aid. For a graduate-level (or doctoral) student, 4.5 credit hours per term is the minimum. (These are both considered part-time status.) Financial aid is therefore not applicable for those terms in which the total number of credits for which a student is registered is fewer than 6 (for undergraduates) or 4.5 (for graduates).

Title IV Ineligible Programs

While Certificates of Graduate Study (COGS), Certificates of Advanced Graduate Study, Graduate Endorsements/Certifications, and Post-Baccalaureate programs are classified as academic, they are non-degree programs. As such, these programs are ineligible for Title IV funding. Title IV programs include financial aid from the Federal Pell Grant, Federal SEOG, Federal TEACH Grant, Federal Stafford Loans, and Federal Work Study. However, prospective students are encouraged to seek other forms of assistance such as employer tuition reimbursement, private loans, or scholarships.

Federal Return of Title IV Funds Policy

Federal regulations require Title IV financial aid funds to be awarded under the assumption that a student will attend the institution for the entire period in which federal assistance was awarded. When a student withdraws from all courses for any reason, including medical withdrawals, he/she may no longer be eligible for the full amount of Title IV funds that he/she was originally scheduled to receive. The return of funds is based upon the premise that students earn their financial aid in proportion to the amount of time in which they are enrolled. A pro-rated schedule is used to determine the amount of federal student aid funds he/she will have earned at the time of the withdrawal. Thus, a student who withdraws in the second week of classes has earned less of his/her financial aid than a student who withdraws in the seventh week.

Once 60% of the semester is completed, a student is considered to have earned all of his/her financial aid and will not be required to return any funds.

Federal law requires schools to calculate how much federal financial aid a student has earned if that student:

- Completely withdrawals; or
- Stops attending before completing the semester; or,
- Does not complete all modules (courses which are not scheduled for the entire semester or payment period for which he/she has registered at the time those modules began).

Based on this calculation, Rowan University students who receive federal financial aid and do not complete their classes during a semester or term could be responsible for repaying a portion of the aid they received. Students who do not begin attendance must repay all financial aid disbursed for the term.

Office of the University Registrar

Linda Drexel
University Registrar
Savitz Hall, 1st Floor
856.256.4350
drexel@rowan.edu
registrar@rowan.edu

The Office of the University Registrar oversees registration and registration-related issues for all of Rowan's undergraduate and graduate (non-medical) students. The Registrar coordinates compliance with the Statewide Transfer Agreement and provides resources for transfer students, including the management of ongoing transfer credit articulations and credit postings for individual undergraduate and graduate students. In addition, the Office has oversight for student records, including transcripts, enrollment verifications, coordination of graduation audits, and the awarding of all Rowan degrees, certificates, and diplomas. The Office also coordinates updates to official curriculum in the system, including programs and courses. The Registrar works closely with all academic colleges as well as University Scheduling, the Offices of Admissions, Advising and Student Retention, and directly supports the Office of Academic Affairs.

Non-matriculated students

(Not admitted to a degree or certification programs)

- **Undergraduate courses:** Non-matriculated students with a high school diploma or its equivalent may register for undergraduate courses for which they are otherwise eligible. Non-matriculated undergraduate students are not permitted to register for more than 11.5 credits in any term or accumulate more than a total of 24 undergraduate credits prior to formal acceptance into an undergraduate program. To inquire about registering for coursework as a non-matriculated undergraduate student, please visit www.rowan.edu/registrar.
- **Post-baccalaureate courses:** Non-matriculated undergraduate students who have already earned a Bachelor's degree are not permitted to accumulate more than a total of 6 undergraduate-level credits prior to formal acceptance into a post-baccalaureate program. To inquire about registering for coursework as a non-matriculated post-baccalaureate student, please visit www.rowan.edu/registrar.
- **Graduate courses:** Non-matriculated students with a Bachelor's degree or its equivalent may register for graduate courses for which they are otherwise eligible. Non-matriculated graduate students are not permitted to accumulate more than a total of 9 graduate credits prior to formal acceptance into a graduate program. To inquire about registering for coursework as a non-matriculated graduate student, please visit www.rowan.edu/registrar.

Courses taken as a non-matriculated student are not guaranteed to count toward a future Rowan program. Not all courses are open for registration to non-matriculated students. Please click on the course registration number (CRN) in the Rowan Section Tally (http://banner.rowan.edu/reports/reports.pl?task=Section_Tally) to view any prerequisites or restrictions assigned to that course.

Non-matriculated students pay for their coursework according to the tuition rate assigned to the course level for each course for which they register. (For tuition rates, consult www.rowan.edu/bursar.)

Bursar

Leonardo T. Freyre
Savitz Hall, 1st Floor
856.256.4150
bursar@rowan.edu

The Bursar's Office is responsible for all billing of students and for the collection of payments.

Each term, a statement of expenses will be mailed electronically. All charges must be paid in full each semester on or before the date stipulated in the statement of expenses given each student. Students who do not pay their bills will be withdrawn from classes in accordance with the University policy on outstanding financial obligations. Credit may be extended to students engaged in negotiations concerning state scholarships, loans or grants. Questions regarding university expenses should be discussed with personnel in the Bursar's Office.

Checks in payment of all charges should be made payable to Rowan University. Payment may also be made with MasterCard, Visa, Discover or American Express. Detailed information on use of these credit cards is available to students prior to the beginning of each semester. All students qualify for the deferred payment program. Information on the deferred payment plan is available on the "Instructions for Term Invoice" page on-line at the Rowan Self Service web site at www.rowan.edu/selfservice.

Tuition and fees, regulated by Rowan University, are subject to change without notice to individual students.

Office of Winter, Summer, and Special Sessions

Soumitra Ghosh
Vice President for Strategic Enrollment Management
Savitz Hall
856.256.4230
ghoshs@rowan.edu

Marie Dionisi
Coordinator
Enterprise Center, Third Floor
856.256.5123
dionisi@rowan.edu or winterandsummer@rowan.edu

Web: www.rowan.edu/summer
Facebook: www.facebook.com/RowanOWSS
Twitter: twitter.com/RowanOWSS
Instagram: [instagram.com/rowanowss](https://www.instagram.com/rowanowss)

The Office of Winter, Summer, and Special Sessions celebrates a year round college experience for students. Rowan University hosts a combination of its own graduate and undergraduate students, as well as visiting students from local, regional, national, and international universities. Through accelerated Winter and Summer courses, students earn credits to stay on track in a four year program, graduate early, earn credits towards an additional program of study, and/or complete academic and professional programs for employment growth and opportunities. Winter and Summer sessions are offered online, hybrid, and face to face to accommodate a sizable and diverse population of learners.

Additionally, the Office of Winter, Summer, and Special Sessions coordinates special efforts to offer college credit-bearing courses to highly achieving high school juniors and seniors at a reduced tuition rate through the Rowan University College Acceleration Program (CAP) and High School Online Dual Credit Initiative. Rowan University courses offered through CAP and the High School Online Dual Credit Initiative fulfill several of Rowan University's general education requirements and are designed to be transferrable to other institutions of higher education.

Rowan Global Marketing and Enrollment Management

Main phone: 856.256.4747
global@rowan.edu

Soumitra Ghosh
Vice President for Strategic Enrollment Management
Savitz Hall
856.256.4230
ghoshs@rowan.edu

Elizabeth Regan-Butts
Assistant Vice President, Marketing
Enterprise Center, Second Floor
856.256.5122
regan-butts@rowan.edu

Saudia Beverly
Director of Admissions & Enrollment Management
Enterprise Center, Second Floor
856.256.5147
beverly@rowan.edu

Eric Brennan
Assistant Director of Admissions & Enrollment Management
Enterprise Center, Second Floor
856.256.5137
brennane@rowan.edu

The Division of Global Learning & Partnerships coordinates all admissions and admissions-related activities for Rowan Global academic programs.

Applying to Rowan Global

Admission to Rowan University as an undergraduate, post-baccalaureate, or graduate-level student is competitive. All applicants are admitted according to the standards and requirements established by Rowan's academic departments. Each component of the application is carefully reviewed and taken into consideration for each candidate. Additional policies and information about Rowan Global Admissions and applying can be found at www.rowanu.com/admissions.

Eligibility for Admissions

Admission requirements for each academic program offered through the Division of Global Learning & Partnerships at Rowan University can be found at www.rowanu.com/programs.

- Undergraduate admission: Rowan Global offers non-traditional degree-completion (transfer) programs for undergraduate students. Any applicant who has completed 24 or more college credits at another institution is considered a transfer student. Students seeking a second bachelor's degree are also considered transfer students, whether they graduated from Rowan or from another institution. Most undergraduate-level programs at Rowan require a minimum GPA for admission. However, meeting that minimum does not guarantee admission due to competition for available openings. Admission decisions for applicants who've attended college more than five years ago are based on motivation, life experiences, career advancement, and college transcripts.
- Post-baccalaureate and graduate admission: To be admitted to a post-baccalaureate or graduate-level program at Rowan University, an applicant must have earned a baccalaureate degree from a regionally-accredited college or university in the United States or its equivalent from a foreign institution of higher education. Faculty-admission committees for post-baccalaureate and graduate-level programs use different evaluation criteria, according to the requirements of the profession and the number of applicants applying to the program.
- To apply to a Rowan Global program (undergraduate, post-baccalaureate, or graduate-level) please visit www.rowanu.com/programs and click on your program of interest for information and links to application deadlines and instructions.

Honors Admission for Rowan Graduates

Rowan undergraduate students who have graduated within the last three years, or Rowan seniors in their final semester, are exempt from paying an application fee and from taking standardized tests (except where it is necessary to meet standards recommended by accrediting bodies, certification agencies, statutory regulations, and/or professional societies) *if* they have achieved a cumulative GPA of 3.8 or greater in their undergraduate coursework and meet all other admission requirements.

Non-U.S. Transcript/Academic Credentials Requirements

Any Rowan Global applicants (regardless of U.S. citizenship) who attended a non-U.S. institution for more than one term and/or who earned a Bachelor's degree (or its equivalent) and/or Master's degree (or its equivalent) from a non-U.S. institution or where English was not the official language of instruction is required to submit to Rowan Global Admissions official English translations (if transcript is not in English) *and* a course-by-course transcript evaluation to determine equivalency. Acceptable evaluation agencies* are:

- World Education Services (WES) (www.wes.org)
- Educational Credentials Evaluators (ECE) (www.ece.org)
- Josef Silny (www.jsilny.com)

**Note: Rowan University has no affiliation with these companies and may accept an evaluation from other companies under special circumstances; however, the above agencies are proven to provide fast and accurate services to students and their evaluations are trusted by colleges throughout the U.S.*

English-language Proficiency Requirements for Non-native Speakers

International applicants are required to submit official copies of successful scores from one of the two tests listed below. (This requirement is waived for any applicant whose first language is English, any applicant who has been studying or working in the U.S. for two or more years, or whose undergraduate institution uses English as the language of instruction. Other ESL programs do not qualify.)

- TOEFL (Test of English as a Foreign Language) (www.toefl.org). Minimum required scores are: 525 or higher - paper test; 70 or higher - internet test; 213 or higher - computerized test
- IELTS (International English Language Testing System) (www.ielts.org). Minimum required score is 6.0.
- PTE (Pearson Test of English) (<https://pearsonpte.com/>). Minimum required score is 50.

Additional Requirements for International Applicants

At Rowan University, non-U.S. citizens requiring the F-1 or J-1 visa must complete two separate processes to be admitted to the University and to be considered for the Rowan-sponsored I-20 necessary to obtain the proper visa.

- The first process is the academic admissions process. All applicants must submit complete application packets including all required materials for their particular program of interest by the appropriate deadline to Rowan Global Admissions and be evaluated for admission and matriculation into a full-time academic program.
- The second process is the financial review, which is coordinated independently by the International Center (IC) at Rowan University. Applicants must complete all of the steps outlined by the IC in order to demonstrate that they have

the financial resources necessary to support themselves for the duration of their studies at Rowan. Without complete information and appropriate certification, Rowan's International Center cannot issue the I-20 necessary to obtain an F-1 or J-1 visa. For a full list of financial review requirements and instructions please visit www.rowan.edu/internationalstudents.

General Information about Standardized Tests

Tests scores must be no older than five years and must be official reports submitted to Rowan Global Admissions directly from the testing agency*. Applicants must designate Rowan University as a recipient of their test scores or scores will not be released. (Only the most recent exam results are used for admission purposes.) Rowan's code for most standardized tests is 2515 except for the ACT (not required of graduate students) which is 2560, and the IELTS and GMAT, which both include instructions for proper score submission at the time of testing.

**Some testing agencies may only provide an address for "The Graduate School." If that is the only option available, select it, but please include a note on the application indicating that test scores were sent to that address.*

Changing Academic Program after Matriculation

Matriculated students who have already begun a program, may decide that a different Rowan program better suits their needs. If that is the case, students must complete a new online application for their program of interest and also indicate in the "Change of Program" section of the application that they are a currently enrolled student. Depending upon the admission requirements of the new program, additional materials may need to be submitted. Any questions about the COP process should be directed to the enrollment counselor assigned to the new program of interest.

Undergraduate Programs

Undergraduate studies at Rowan University are housed in seven colleges and two schools: Business, Communication and Creative Arts, Education, Engineering, Performing Arts, Humanities & Social Sciences, Science & Mathematics, the School of Health Professions and the School of Earth and Environment. To receive a baccalaureate degree, the student must successfully complete a minimum of 120 semester hours of credit. Within this number must be included the general education and Rowan experience requirements plus the requirements of the academic major. Requirements for the major will vary from program to program, and some programs exceed 120 hours.

Academic Major Programs

Academic major programs listed with general education requirements in the colleges of Business, Communication & Creative Arts, Engineering, Humanities & Social Sciences, Sciences & Mathematics, and Performing Arts fulfill baccalaureate degree requirements but not teacher certification requirements. Additional program information, including the fulfillment of certification requirements, may be secured by contacting either the office of the dean of the College of Education or the College of Education Advising Center (CEAC). For information regarding program guides, please visit <https://sites.rowan.edu/registrar/program-guide-info/index.html>.

Second Major or Minor

Students may choose to complete a second major, minor, or concentration when graduating from a bachelor's degree program at Rowan University. To qualify for this additional designation on the transcript, a student must satisfy all course work for the second major, minor, or concentration concurrent with the conferral of the degree. Students must follow departmental policy regarding required course work to be completed at Rowan University for the minor, concentration, or second major. Academic policies governing the award of degrees for dual majors, concurrent, and successive degree programs are listed in the Rowan Handbook: www.rowan.edu/student_affairs.

General Education at Rowan University

A well-rounded education is a goal in itself and there are important aspects of this education that the university as a whole wants to emphasize. These aspects include a thorough grounding in communication and an exposure to university level science, mathematics, social and behavioral science, and the humanities.

Broadly speaking, the general education program will:

1. Develop students' abilities to speak and write effectively, think clearly and critically
2. Develop students' abilities to use computational, quantitative, and problem solving skills, as well as scientific thinking and modes of inquiry
3. Increase students' understanding of the complexity of issues in humanities, arts, social and behavioral sciences and the practice of free inquiry in their analyses and examination of values.
4. Provide opportunities for students to explore concentrations, minors, or disciplines outside of their own in greater depth.

As one of the fundamental principles of a general education curriculum is to experience a variety of disciplines, students are required to take courses from five areas: Communication; Science and Mathematics; Social and Behavioral Sciences; History, Humanities, and Language; and Non-Program Courses.

At Rowan University, the minimum number of hours required for a four-year degree is 120 semester hours, and all students are required to earn a combined total of 42 semester hours of General Education and Rowan Experience courses. (The Rowan Experience Requirements are described in detail in the next section.) Different degree programs vary in the number of hours required for Free Electives and the Major. Students must plan their program of study in consultation with an advisor in order to meet all the requirements of a specific major program.

Within General Education, there are specific areas of study or discipline groups. All of the semester hour requirements listed below are considered minimum requirements. Specific requirements may vary by degree type (Bachelor of Arts, Bachelor of Science) and/or by major program of study.

General Education Requirements by Area of Study

Following are the minimum numbers of credits required in each of five areas of study within General Education. In addition to meeting the minimum credit hours in each bank, students must earn a COMBINED TOTAL of 42 credits of General Education courses and Rowan Experience courses.

General Education Areas

Communication	6
Science and Mathematics	7
Social and Behavioral Sciences	6
History, Humanities and Language	6
Non-Program Courses	6

These are minimum requirements for each area of study or discipline group. Specific major programs may expand the requirements within any of these categories in order to meet program and learning outcome objectives as well as meeting the minimum 120 semester hour requirement for a four-year degree. Specific General Education courses may be required for individual majors if they serve as prerequisites for required courses within that major.

General Education courses must be selected so that the following requirements are satisfied:

1. All students must take College Composition I (3 s.h.) or Intensive College Composition I (4 s.h.) as well as College Composition II (3 s.h.).
2. The minimum of 6 s.h. of Communication is fulfilled by College Composition I and II. For all other banks requiring 6 or more semester hours, students must take courses from at least two different disciplines within the bank.
3. All students must take at least one course from the list of mathematics courses listed under Science and Mathematics.
4. All students must take at least one approved course that includes an in-class laboratory experience (LAB) under Science and Mathematics. Transfer courses must include the in-class lab experience. Students may not test out of the lab experience.
5. All courses at the university can be used in the Non-Program Bank, as long as they are not courses in the major program of the student.

Students Transferring from a New Jersey Community College to Rowan University

Students who have completed an Associate of Arts or Associate of Science degree at a New Jersey community college will receive at least 60 hours of transferrable credit towards the appropriate Bachelor of Arts or Bachelor of Science Program. With regard to General Education, it is assumed that transfer students will have met all lower division General Education requirements expected of students having completed the first two years of a four-year program. In most situations, students will receive transfer credit for a combination of General Education Courses, Rowan Experience Courses, Free Electives, and Major Requirements totaling at least 60 semester hours of credit or approximately one-half of a basic four-year degree. Exceptions to this assumption will occur when students have failed to complete required course work at the community college that is required for entrance into a required Rowan University course. Coordination between the student and advisor at the community college is necessary in planning for the transfer to Rowan University. Specific program requirements are available on the Rowan University home page.

For students transferring to the university without completing an Associate of Arts or Associate of Science degree, it is expected that credits taken at a New Jersey community college that are applicable to an Associate of Arts or and Associate of Science degree will be transferable to the basic four-year degree program at Rowan University. Transfer students must meet the specific graduation requirements of the Rowan University degree program to which they seek to transfer. It is expected that through careful planning, the transfer student will be able to meet these requirements within their two years of study at the community college and the following two years of study at Rowan University.

General Education Requirements

General Education is designed to fulfill the aim of a liberal education. It is intended to provide the breadth of knowledge and balance of judgment befitting a college graduate, regardless of major. At Rowan University, General Education is divided into five areas of study with specific goals. The educational goals of the five areas of study are:

Communication Bank Goals

1. Students will develop the ability to write a structured, well-reasoned, ordered and grammatically correct document appropriate to the intended audience.
2. Students will develop the ability to research and properly reference the work of others.

Science and Mathematics Bank Goals

1. Students will demonstrate an ability to identify and apply fundamental concepts in science and math.
2. Students will demonstrate an ability to collect, interpret and verify lab data.
3. Students will demonstrate an ability to analyze and manipulate data, and to access and organize information.

History, Humanities, and Languages Bank Goals

1. Students will demonstrate an understanding of major concepts, theories, and methods in at least two areas of history, humanities, culture, or world languages.
2. Students will develop an understanding of systems of thought and language.

Social and Behavioral Sciences Bank Goals

1. Students will demonstrate an understanding of major concepts, theories, and methods in at least two areas of the social and behavioral sciences.
2. Students will demonstrate an understanding of the development of human society as it relates to culture, geography, and language in the context of an emerging interdependent, global community.
3. Students will demonstrate an ability to apply basic methodologies used in the measurement of social and behavioral sciences.

Non-Program Electives Bank Goals

1. Students will develop a deeper understanding of at least one area outside of the major program of study as a means of creating a broader, customized, and complete program of general education.
2. Students will choose courses to enhance the major degree program and better prepare them to meet future professional and life objectives.

Some general courses offered at Rowan University fulfill one or more of the Rowan Experience Requirements, or are applicable to the Honors Concentration, or meet a combination of General Education, Rowan Experience, and Honors Concentration Requirements. Such courses are signified as follows:

- (ACE) Artistic and Creative Experience
- (H) Honors Concentration Course
- (LIT) Broad-based literature course
- (LAB) In-class laboratory experience
- (PS) Public Speaking
- (M/G) Multicultural/Global
- (RS) Rowan Seminar
- (WI) Writing Intensive

The General Education course listing can be viewed in the Approved General Education Courses section of the university catalog.

Non-Traditional-Format Undergraduate Offerings

Rowan also offers a few of its undergraduate degree programs in non-traditional modes of delivery (online, off-site, hybrid, accelerated, etc.) through the Division Global Learning & Partnerships (Rowan Global). For a list of available programs and related details, please visit www.rowanu.com/programs.

Note: Admission to all traditional-format undergraduate programs at Rowan University is coordinated by the main Admissions Office (admissions@rowan.edu).

Admission to the non-traditional-format undergraduate programs at Rowan University is coordinated by the Rowan Global Admissions Office (globaladmissions@rowan.edu or www.rowanu.com).

Rowan Core

Rowan University graduates will need to have lifelong learning skills that enable them to be flexible, adaptable, and agile, so they can engage responsibly, critically, and ethically in an ever-changing world. Through Rowan Core, students will strengthen their ability to be critical thinkers, intentional learners, and engaged citizens. Rowan University is an *inclusive, agile, and responsive* institution, and its graduates exhibit those same qualities.

Rowan Core is organized around six literacies. Instead of emphasizing content coverage, a literacy framework promotes habits of mind. Each literacy provides students with a greater capacity to participate in society—to access information, to analyze and reflect, and to express conclusions and opinions. Learning is not only cognitive, but affective and experiential as well. To be literate means both to have expertise in a subject area and to be able to practice that expertise. Students increase their literacy through the practice of four kinds of learning: acquisition of **knowledge** of concrete skills and content; **understanding** of concepts and theories; **appreciation** of values and dispositions; and **engagement** in applications and experiences. For a listing of current Rowan Core course, please visit [rowancore](#).

The Rowan Core literacies are:

- Artistic Literacy
- Communicative Literacy
- Global Literacy
- Humanistic Literacy
- Quantitative Literacy
- Scientific Literacy

During their academic careers, new first-year students will take at least three Communicative Literacy courses and at least one course from each of the other five literacies. Students are also required to take a minimum of 18 semester hours of non-program courses, which can either be additional Rowan Core courses or courses that were included in Rowan's previous general education model. Students must also fulfill the following Rowan Experience requirements:

- One Broad-Based Literature (LIT) Designated Course
- One Rowan Seminar (RS) Designated Course
- One Writing-Intensive (WI) Designated Course

At Rowan University, the minimum number of hours required for a four-year degree is 120 semester hours, and all students are required to earn a combined total of 42 semester hours of Rowan Core and Non-Program courses. (Non-Program courses are described in detail in the next section.) Some programs may have semester hour requirements that go beyond these minimums. Students must plan their program of study in consultation with an advisor in order to meet all the requirements of a specific major program.

Through development of each of the six literacies, Rowan University students prepare themselves to be engaged citizens who contribute to their communities and create opportunities for personal success and fulfillment. The literacies are:

Artistic Literacy

Artistic literacy is the knowledge and understanding of the centrality of the arts and aesthetics to human existence. Art reflects—and artists respond to and interact with—the communities in which we live. Artistic literacy requires learning about and engaging in the creative and performing arts. Visual, verbal, physical and auditory expression will be informed by a study of historical and cultural contexts. Active experimental engagement, including critical analysis and evaluation, will foster an aesthetic sensibility, which includes cognitive and emotional responses.

Communicative Literacy

Communicative literacy is the capacity to analyze, reflect on, and respond to diverse communication situations. This includes understanding the ways in which audience, context, and purpose shape acts of communication. Communicative literacy is demonstrated through fluency in various modes of communication and effective adaptation, invention, and choice of strategies for communication. Engagement in a range of communicative acts and experiences will cultivate critical awareness and ethical responsibility.

Global Literacy

Global literacy is the ability to understand the complexities of one's own society as well as the global community. This requires knowledge of the diversity of world cultures and recognition of the interdependence of the contemporary world. The extensive globalization of the world's economies and societies reveals the limits of human and natural resources in a global context. Knowledge of the reciprocal nature of local and global conditions will produce an international perspective.

Humanistic Literacy

Humanistic literacy is the ability to understand how human experience is shaped by economic, political, literary, socio-cultural, historical and other contexts. Humanistic literacy includes critical awareness of how dominant paradigms are created and shape human thinking and feeling. It also encompasses the ability to empathize with other times, places, cultures, and mindsets and to grasp the complexity of change and perspective. Active engagement involves the

interpretation of significant texts and artifacts to develop awareness and to use this awareness to make decisions and to initiate and react to change.

Quantitative Literacy

Quantitative literacy is the ability to reason logically and to communicate mathematical ideas verbally, symbolically, and graphically. It involves knowing fundamental concepts and techniques of mathematical principles and processes in order to see mathematical functions as quantitative relationships, to understand the concept of probability, and to estimate or approximate answers to questions. This knowledge provides a foundation for understanding how to construct logical arguments and how to make use of mathematical thinking. Quantitative literacy encourages appreciation of mathematics as a practical tool as well as a philosophical and humanistic endeavor which helps make sense of the world. Engagement in quantitative literacy includes analysis of the use of mathematics and the application of mathematical thinking and modeling to real-world problems.

Scientific Literacy

Scientific literacy is the understanding that science is a systematic, evidence-based process of observation, modeling, and testing, to formulate and refine theories which not only explain but predict. Scientific literacy encompasses an appreciation of the role of science in society, technology, engineering, and mathematics. It includes recognition of the scientific knowledge, skills, and values that promote informed evaluation of the validity of claims and proposed solutions to current problems. Scientific literacy does not necessarily involve the production of new science but rather it enables one to make informed decisions and cooperatively engage in the protection and improvement of the world through scientific processes.

The Rowan Experience

Courses that fulfill the following three Rowan Experience requirements compliment the six literacies. These courses can also fulfill General Education, Program, or Non-Program requirements:

Rowan Seminar (RS).

College is very different from high school; all Rowan first-year students are supported through this transition in their Rowan Seminar course. Students build skills for success in college-level work and will engage with the Rowan community. Students who transfer in as sophomores, juniors, or seniors do not take Rowan Seminar courses.

Literature (WI).

In Literature courses, students engage with great works, whether modern or classic, American or from around the globe. Students build life-long skills and enjoyment for the literary world by taking at least one course from among selections in the English Department, Philosophy and Religion Studies, and more.

Writing Intensive (WI).

The ability to write effectively is a core feature of a well-educated person, no matter the career field. Students’ writing skills will be bolstered by these special courses emphasizing learning, and expressing one’s learning, through the writing process.

Students can see the available courses in a given term by searching for the name of the bank under “Attribute” in Section Tally:

<u>Literacy</u>	<u>Attribute</u>
Artistic	ARTL
Communicative	COML
Global	GLBL
Humanistic	HUML
Quantitative	QNTL
Scientific	SCIL
<u>Rowan Experience</u>	<u>Attribute</u>
Rowan Seminar	RS
Literature	Lit
Writing Intensive	WI

Note that specific academic programs may require additional courses in some literacies. As always, students should be sure to check with their academic advisor every semester before registering for courses to ensure that their selections meet the requirements of general education as well as their specific major.

Students Transferring from a New Jersey Community College to Rowan

Students who have completed an Associate of Arts or Associate of Science degree at a New Jersey community college will receive at least 60 hours of transferrable credit towards the appropriate Bachelor of Arts or Bachelor of Science Program. With regard to General Education, it is assumed that transfer students will have met all lower division General Education requirements expected of students having completed the first two years of a four-year program. In most situations, students will receive transfer credit for a combination of General Education Courses, Rowan Experience Courses, Non-Program

Requirements, Free Electives, and Major Requirements totaling at least 60 semester hours of credit or approximately one-half of a basic four-year degree. Exceptions to this assumption will occur when students have failed to complete course work at the community college that is required for entrance into a required Rowan University course.

Coordination between the student and advisor at the community college is necessary in planning for the transfer to Rowan University. Specific program requirements are available on the Rowan University website.

For students transferring to the university without completing an Associate of Arts or Associate of Science degree, it is expected that credits taken at a New Jersey community college that are applicable to an Associate of Arts or Associate of Science degree will be transferable to the basic four-year degree program at Rowan University.

Transfer students must meet the specific graduation requirements of the Rowan University degree program into which they transfer. It is expected that through careful planning, transfer students will be able to meet these requirements within a total of four years of full-time enrollment at the community college and Rowan University.

Graduate & Post-Baccalaureate Programs

All post-baccalaureate and graduate-level programs (including doctoral, master level, and professional certificates) offered at Rowan University are administered by the Division of Global Learning & Partnerships Office of Graduate and Professional Studies and housed across the academic colleges of Business, Communication & Creative Arts, Education, Engineering, Health Sciences, Humanities & Social Sciences, Performing Arts, Science & Mathematics; the schools of Earth & Environment and Health Professions; and Graduate School of Biomedical Sciences, Cooper Medical School of Rowan University, and Rowan School of Osteopathic Medicine.

The role of the Division of Rowan Global Learning & Partnerships (Rowan Global) is to provide leadership, coordination, and administrative support for quality post-baccalaureate and graduate-level programs at Rowan University, as consistent with national, state, and regional educational needs. Led by the Senior Vice President of the Division of Global Learning & Partnerships and professional staff of Rowan Global, the Graduate Council, and the academic program advisors/faculty, the post-baccalaureate and graduate experiences are integral components of the overall mission of the University.

Graduate-level programs at Rowan provide those who already possess bachelor's or master's degrees an opportunity to continue to advance their education.

Rowan University Degrees Offered:

- B.A., B.F.A., B.M., B.S., B.S.N., B.G.S., M.A., M.B.A., M.B.S., M.Ed., M.E.M., M.M., M.S., M.S.N., M.S.T., Ed.S., D.O., Ed.D., M.D., Ph.D.
- Certificates of Advanced Graduate Study (CAGS; post-master)
- Certificates of Graduate Study (COGS; post-baccalaureate)
- Certificates of Undergraduate Study (CUGS)
- Professional Certificates

Post-Baccalaureate programs are non-degree, undergraduate programs that enable bachelor degree holders to obtain professional certifications in a variety of areas. The requirements and curricula of the post-baccalaureate programs are often similar to the requirements and curricula listed for the corresponding undergraduate degree programs and may also have the same national accreditation and/or state approval (in the case of College of Education certifications) as the corresponding undergraduate degree programs.

Available offerings at the post-baccalaureate (undergraduate) level include but are not limited to the following certification and non-degree options:

- Post-baccalaureate (post Bachelor) programs in Applied Behavior Analysis and Cartography and GIS.
- State certifications/endorsement programs (also post Bachelor) for school nursing, principals, supervisors, teacher of students with disabilities, driver education, learning disabilities teacher consultant (LDTC), bilingual/bicultural education, English as a Second Language

Credit requirements for each program vary greatly according to level, degree and professional standards. Many programs will accept transfer credit from accredited institutions. For a full list of programs offered through Rowan Global, please visit www.rowanu.com/programs.

Rowan Global serves the adult non-traditional student population by offering programs and courses that meet the needs of individuals with busy personal and professional lifestyles. Consequently, several programs are available in an accelerated format, and/or online, hybrid, or face-to-face formats at a number of locations outside of the Rowan University Main Campus. Program formats and locations are provided in the Rowan Global Learning & Partnerships Catalog (for accelerated, online and off-site undergraduate programs and all graduate and post-baccalaureate programs) under the "Programs Offered" section for each academic college.

Note: Admission to all post-baccalaureate and graduate programs at Rowan University (both traditional-format and non-traditional-format), as well as all non-traditional-format undergraduate programs, is coordinated by Rowan Global Admissions (globaladmissions@rowan.edu or www.rowanu.com.)

Tuition & Fees

Tuition and fees* for the Division of Global Learning & Partnerships vary with the nature of the program, location, and mode of delivery. Rowan Global costs (tuition and fees) can be found at either of these websites: www.rowan.edu/bursar or www.rowanu.com/tuition.

**Tuition and fees are subject to annual change and do not include the cost of textbooks and personal expenses.*

Outstanding Financial Obligations

The University may deny a student graduation, readmission, registration, or records because of outstanding financial obligations to the University. This action may be taken in cases where reasonable notice of a debt and the consequences of nonpayment have been given to the student. If a student does not meet his/her outstanding obligations by the established deadlines under the policy, the student will automatically be denied registration for the following semester, in addition to losing all other university services. Denial for future semesters will also be continued until such time as the obligation is met. The student will have the right to a hearing in cases of dispute concerning an obligation. The request for a hearing must be submitted in writing by the student to the appropriate department or office head in which the obligation exists. If it becomes necessary, any appeal of a decision resulting from such a hearing must be arranged through the collection manager, Business Office, Savitz Hall, or Dean of Students, Savitz Hall.

The University will have the right to withhold the degree and all records, including certification, transcripts, placement services, etc., pending satisfactory financial arrangements.

A complete text of the Outstanding Financial Obligations Policy may also be obtained from the collection manager, the business office, or the Dean of Students in Savitz Hall.

Office of the President

Ali A. Houshmand
President
856.256.4100
presidenthoushmand@rowan.edu

Robert Zazzali
Senior Vice President for Administration
856.256.4110
zazzali@rowan.edu

Joanne Connor
Chief of Staff and Liaison to the Board of Trustees
856.256.4102
connorj@rowan.edu

The President works with the Board of Trustees and the Executive Cabinet to determine the vision and strategy for the University. The President's Office is comprised of the President, his Chief of Staff and the Senior Vice President for Administration.

Division of Academic Affairs

Anthony Lowman
Senior Vice President and Provost
Bole Hall
856.256.4012
lowman@rowan.edu

Roberta Harvey
Vice President for Academic Affairs
Bole Hall
856.256.5140
harvey@rowan.edu

Mariano J. Savelski
Associate Provost for Faculty Affairs
Bole Hall
856.256.5317
savelski@rowan.edu

Tricia Yurak
Associate Provost for Academic Affairs
Bole Hall
856.256.5144
yurak@rowan.edu

The Academic Affairs Division is headed by the Provost or Chief Academic Officer. The Provost reports directly to the President and is responsible for leadership and oversight of academic programs, faculty affairs, and library services. The Deans of the Colleges of Business, Communication & Creative Arts, Education, Engineering, Performing Arts, Humanities & Social Sciences, Science & Mathematics, and Honors; Schools of Earth and Environment and Health Professions; and the Cooper Medical School, the School of Osteopathic Medicine, and the Graduate School of Biomedical Sciences report to the Provost. The Vice President for Academic Affairs, Associate Provosts for Academic Affairs and Library Information Services, and the Director of the International Center also report to the Provost. The University Registrar, Director of the Faculty Center for Excellence in Teaching and Learning, and Director of Assessment report to the Vice President for Academic Affairs.

Division of Diversity, Equity and Inclusion

Monika Williams Shealey
Senior Vice President
Savitz Hall, Second Floor
856.256.4751
shealey@rowan.edu

Penny McPherson-Myers
Vice President
Savitz Hall, Second Floor
856.256.4086
mcphersonp@rowan.edu

The Division of Diversity, Equity and Inclusion at Rowan University leads and supports initiatives that promote diversity, equity and inclusion by developing and sustaining meaningful partnerships with internal and external constituents that result in a more diverse and inclusive community; utilizing data to inform continuous improvement efforts and innovation; and implementing university-wide culturally responsive and relevant programming that result in equitable educational opportunities for students and an affirming culture and climate. The departments reporting to the Division are Social Justice, Inclusion and Conflict Resolution; Title IX; Bias Assessment and Response Team; Achieving Success through Collaboration, Engagement, and Determination (ASCEND); Creating Higher Aspiration and Motivation Project (CHAMP); and the Faculty Center for Excellence in Teaching and Learning is shared with the Division of Academic Affairs.

Social Justice, Inclusion and Conflict Resolution

Roxie J. Patton
Director
Hawthorn Hall, Room 203
856.256.5479
socialjustice@rowan.edu

Formed through the collaborative efforts of students, faculty and staff, the Office of Social Justice, Inclusion and Conflict Resolution exists to promote an inclusive university community where individuals are empowered to grow in their understanding of identity, social justice, and the skills needed to lead a more just society. The office provides dedicated physical space and resources for underrepresented and underserved students at Rowan University. The office serves as an umbrella for the following programs and centers:

Harley E. Flack Student Mentoring Program

Robert Simmons
Assistant Director
Hawthorn Hall, Room 211
856.256.5495
harleyflackmentoring@rowan.edu

The Harley E. Flack Student Mentoring Program was founded in 1992, and provides a comprehensive array of mentoring services. Services are designed and delivered using methods based on strong evidence, which indicates that these programs support retention and student success.

Multicultural Center

John T. Mills
Assistant Director
Hawthorn Hall, Room 213
856.256.4448
multicultural@rowan.edu

The Multicultural Center is an evolution of the long established Office of Multicultural Affairs, which has been merged into the new structure. The Multicultural Center serves as a resource for students from diverse cultural and identity groups, and is intended to promote the celebration diversity, development cross cultural understanding and competency, and inclusion of diverse people in the Rowan community.

Interfaith and Spiritual Exploration Center

Evergreen Hall, Room 182
856.256.5447
interfaith@rowan.edu

The Interfaith and Spiritual Exploration Center aims to promote a campus environment that is inclusive of student's religious and spiritual identities and allows for expression and exploration of spiritual and religious beliefs and values. Programs and initiatives of the center will advance understanding and appreciation of the contributions of communities of faith.

LGBTQIA+ Center
Hawthorn Hall, Room 214
856.256.5495
LGBTQ@rowan.edu

The LGBTQIA+ Center located in the Office of Social Justice, Inclusion, and Conflict Resolution (SJICR) aims to create a safe space for students who identify as LGBTQIA+ and support students' exploration of their identity. SJICR staff working to fulfill the goals of this center advocate for campus inclusion of the LGBTQIA+ community at Rowan.

Women's Center
JoAnna Murphy
Assistant Director
Hawthorn Hall, Room 210A
856.256.5495
women@rowan.edu

The Women's Center develops programming aimed at addressing the needs of all women and empower students to promote a campus community inclusive of all genders and respectful of gender differences. Programs and initiatives of the center will support efforts to address inequity, promote understanding of women's and gender issues, and create a space for women to build bridges and a strong sense of community.

Office of Student Equity and Compliance

Monise Princilus
Associate Vice President, Diversity, Equity and Inclusion
Savitz Hall, Second Floor
<https://sites.rowan.edu/diversity-equity-inclusion/titleix/index.html>

The Title IX office serves as the main contact for all Title IX-related issues at Rowan University. Title IX of the Education Amendments of 1972 is a federal law that prohibits sex discrimination in all educational settings for both students and employees. The law states: "No person in the United States shall, on the basis of sex, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any education program or activity receiving Federal financial assistance." – Title IX of the Education Amendments of 1972, and its implementing regulation at 34 C.F.R. Part 106 (Title IX) The University is dedicated to providing an environment free from discrimination based on sex and provides a number of resources and services to assist students, faculty, and staff in addressing issues involving sexual harassment, sexual violence, stalking, and relationship violence. Rowan University does not discriminate on the basis of sex and all members of the University community have the right to be free from any form of sexual violence, sexual harassment, or sexual exploitation. Rowan University does not tolerate sexual harassment or sexual misconduct of any kind.

Bias Assessment and Response Team

The Bias Assessment and Response Team (BART) aims to provide impacted parties of bias incidents opportunities to be heard and supported; understand and respond to situations that affect the University; educate and inform the community, and create awareness of ignorance and intolerance. The BART provides services to witness(es), bystanders(s), targeted individual(s), offender(s), or any member(s) of the Rowan community. This is done in accordance with Rowan University's statement on diversity.

Incidents reported as bias acts may not be in violation of any civil, criminal or University codes, and as such may not result in discipline. However, the University will offer support to those reporting incidents as well as educational programs to prevent and stop the spread of bias-related incidents on campus.

Achieving Success through Collaboration, Engagement and Determination (ASCEND)

Dawn Singleton
Director
ASCEND Glassboro, Savitz Hall, Third Floor
856.256.5700
singletond@rowan.edu
ASCEND Camden, Academic Building, Second Floor
856.256.9230
www.rowan.edu/ascend

The ASCEND program is an educational pipeline scholarship program for first generation, underrepresented, and/or low income students which utilizes a series of intentional programming to support students in the program. Within the ASCEND program there are two components: the Educational Opportunity Fund Program (EOF) and the RISE Program.

The EOF program provides access, preparation, orientation, and academic support for students who are among the first in their family to attend college, and for those who otherwise may face unique challenges in college due to economic, cultural, or educational circumstance.

To be considered for the EOF program, students must complete the Common Application and select EOF. The four main requirements for EOF applicants are:

1. At least one year residency in New Jersey.
2. A background of historical poverty as indicated by the Free Application for Federal Student Aid (FAFSA) and supporting documentation.
3. Potential for college level success as demonstrated by an interview, letters of recommendation, etc.
4. A High School or General Equivalency Diploma.

The RISE Program is a special admissions scholarship program designed for highly motivated students who may not meet Rowan University's regular admission criteria nor the EOF financial criteria, but would benefit from additional academic support and resources. There is no financial eligibility criteria for the RISE program. However, students are required to complete the FAFSA.

To be considered for the RISE program, students must submit the Common Application. Admissions officers identify potential candidates, review admission information and conduct student interviews to determine admittance. Selected students of the ASCEND program are conditionally admitted and required to participate in a six week summer bridge program. This program provides college survival skills, leadership skills, academic coursework and support, STEM enrichment activities, and orientation for transition into the University environment. During the summer program, the ASCEND staff evaluates the students' demonstrated ability to successfully transition into Rowan University and makes a recommendation regarding the appropriateness of fall admission.

ASCEND students are assigned an ASCEND counselor to provide a broad range of academic and personal support services, including counseling, tutoring, and leadership development from freshman year through graduation. ASCEND Counselors interact with students in individual and small group settings. Financial assistance is provided to qualified students.

Creating Higher Aspiration and Motivation Project (CHAMP)

Winona Wigfall

Director

Camden Bank Building, Second Floor

856.361.2909

<https://sites.rowan.edu/champ/index.html>

The Creating Higher Aspiration and Motivation Project (CHAMP) serves approximately 300 6th through 12th grade Camden City middle and high school students annually, with college access activities. CHAMP provides participants with a solid foundation to aid them with support necessary to successfully complete secondary education and post-secondary programs leading to careers in fields in which persons from minority and/or disadvantaged backgrounds are underrepresented, such as engineering, computer science, medicine, environmental science, etc.

The program includes a six-week summer enrichment program, with a goal of increasing students' math, science, English, public speaking and computer science knowledge and skills. Emphasis is placed on self-esteem, social and cooperative skill building and career exploration. The academic year program includes after school tutoring, in and out of school counseling and mentoring, Saturday field trips and educational activities, as well as trips to colleges and universities. PSAT/SAT instruction is offered twice a week as well as assistance with college applications and financial aid forms.

The program is supported by funds from the U.S. Department of Education administered through New Jersey Higher Education, NJ College Bound Grant Program, Camden City Public Schools and Rowan University.

Faculty Center for Excellence in Teaching and Learning

Henry D. James Hall, 3092

856.256.4353

<https://sites.rowan.edu/academic-affairs/facultycenter/>

The Faculty Center for Excellence in Teaching and Learning creates valuable and appropriate connections across campus in order to facilitate individuals' growth as engaged university citizens; and serves faculty, pertinent supporting offices, and the institution in pursuit of teaching, scholarship and creative excellence. The Center's three areas of activity are 1) induction and ongoing support of faculty; 2) professional development focused on research-based and culturally responsive teaching practices, acquisition of skills to support diverse learners, and academic career progress; and 3) institutional change relevant to diversity, equity and inclusion in teaching, scholarship and creative activities. Programming is designed to encourage reflective pedagogy and assist in creating an equitable learning environment for all faculty and students. The Center

encourages self-directed inquiry through various modes including programs, learning communities, affinity and discussion groups, and conference participation.

Our Goals:

- Promote a high standard of quality teaching and learning encompassing a commitment to diversity, equity and inclusion.
- Support junior faculty throughout the tenure and recontracting process
- Support faculty in development of inclusive teaching principles
- Create an inclusive community with equitable opportunities for all faculty
- Represent the interests of teaching and learning at the university
- Build faculty leadership capability
- Maintain currency in the field

Division of University Research

Beena Sukumaran
Vice President
Oak Hall 209
856.256.5324
sukumaran@rowan.edu

Sarah Piddington
Assistant Vice President and Director of the South Jersey Tech Park (SJTP)
201 Mullica Hill Road
Glassboro, NJ 08028
856.256.5482
piddington@rowan.edu

Stephanie Lezotte
Director of Strategic Research Initiatives and Outreach
Oak Hall North 206
856.256.4124
lezotte@rowan.edu

The Office of the Vice President for Research is responsible for promoting, supporting and administering the research, scholarly and creative activity of Rowan faculty, staff and students. The Division of University Research oversees seven departments.

Office of Sponsored Programs
Rita Piccioni
Director, Grant and Contract Accounting
Laurel Hall South
856.256.5492
piccioni@rowan.edu

Mui Whetstone
Director, Pre-Award
Office of Sponsored Programs
40 E. Laurel Road
University Education Center (UEC). Suite 1040
Stratford, NJ 08084
856.256.4167
whetstone@rowan.edu

Alternate location:
Laurel Hall - Suite 111
201 Mullica Hill Road
Glassboro, NJ 08028
856.566.6075

The mission of the Office of Sponsored Programs (OSP) is to provide Rowan faculty, staff, and students with information and guidance for the submission of proposals to federal, state, and other sponsors, and to provide effective stewardship of

awarded funds.

Office of Research Compliance
Sreekant Murthy
Chief Research Compliance Officer
Laurel Hall South
856.256.5853
murthy@rowan.edu

The Office of Research Compliance is responsible for overseeing the ethical conduct of research and compliance with all applicable federal, state, and institutional laws and regulations.

Office of Proposal Development
Stephen Robishaw Manager
South Jersey Technology Park (SJTP)
107 Gilbreth Parkway
Mullica Hill, NJ 08062
856.256.5795
robishaw@rowan.edu

The Office of Proposal Development (OPD) is responsible for increasing the overall number and quality of competitive, interdisciplinary, and collaborative proposals that support faculty research at Rowan University. OPD achieves this goal by partnering with faculty members to develop project ideas, identify funding sources, facilitate partnerships, form proposal teams, and prepare proposals for submission. In addition, OPD provides timely and targeted trainings to faculty members to develop their grantsmanship skills.

Office of Graduate Research Services
Jenn Tharp
Graduate Research Services Specialist
Laurel Hall South
856.256.5092
tharp@rowan.edu

The Office of Graduate Research Services oversees thesis/dissertation final format review for Master's and Doctoral students across all disciplines, reviewing and approving documents prior to notification of the Rowan University Registrar for graduation purposes. It also offers resources to students to aid them in the research and writing phases of their thesis and dissertation work. The Office of Graduate Research Services additionally assists the University Colleges in the hiring of Graduate and Research Assistants (GAs and GRAs). The office provides students and faculty with information regarding the GA and GRA hiring process, as well as serving as a facilitator for the collection of student applications and employment forms.

Rowan Innovations
Jeanne Nevelos
Executive Director, SJTP and Managing Director, Rowan Innovations
South Jersey Technology Park
107 Gilbreth Parkway
Mullica Hill, NJ 08062
856.256.5710
nevelos@rowan.edu

Rowan Innovations' role within the Division of Research is to: 1) Grow the South Jersey Technology Park by helping Rowan researchers spin out businesses and attracting external technology companies to locate in SJTP; 2) Develop industry partnerships; 3) Develop non-traditional revenue-generating opportunities for Rowan research centers and 4) Provide support for entrepreneurial faculty/staff to start new business ventures.

Office of Technology Commercialization

Yatin Karpe
Director
South Jersey Technology Park
107 Gilbreth Parkway
Mullica Hill, NJ 08062
856.256.5097
karpe@rowan.edu

The Office of Technology Commercialization (OTC) is responsible for aligning innovations to respond to commercially unmet market needs, receiving invention disclosures, processing patent applications, and executing licensing agreements.

Division of Student Affairs

Jeff Hand
Senior Vice President of Student Affairs
Savitz Hall, Third Floor
856.256.5185
handj@rowan.edu

Rory McElwee
Vice President for Student Affairs
Savitz 323
856.256.5187
mcelwee@rowan.edu

Soumitra Ghosh
Vice President for Strategic Enrollment Management
Savitz Hall, Second Floor, Office of Admissions
856.256.4230
ghoshs@rowan.edu

Richard L. Jones
Vice President for Student Engagement
Savitz Hall, Room 340
856.256.4257
jonesri@rowan.edu

The Division of Student Affairs encompasses several key areas at Rowan University committed to attracting high caliber students and retaining them through graduation. In short, we are a division dedicated to our students' success. Student Affairs includes the departments of Admissions, Financial Aid, University Web Services, Conference & Event Services, Student Diversity, Office of University Scheduling, Academic Success Center, Card Services Office, Community Standards, Counseling & Psychological Services, Dr. Harley E. Flack Student Mentoring Program, ACEND, Greek Affairs, Healthy Campus Initiatives, Office of Career Advancement, Orientation and Student Leadership Programs, Recreation Center, Residential Learning and University Housing, Student Activities, Student Center, Student Enrichment and Family Connections, Student Government Association, Student Health Services, Student Organizations, Volunteerism, Community Engagement, & Commuter Services, Wellness Center at Winans Hall, and in the Retention area, University Advising Services, University Transfer Services, University Retention Systems, the Office of Academic Transition & Support Programs, the Tutoring Center, and Testing Services. Together, these departments recruit students, help finance their education, advise them on college and career choices, and communicate with them via the Rowan University web and mobile sites. Our main office is in Savitz Hall but, Student Affairs is literally all over Rowan. While you may not have realized it, we met you before you first stepped foot on campus, we'll advise you while you're here and, hopefully, our impression will stay with you long after you leave. The Division of Student Affairs provides academic support and retention programs for students from their first semester through their graduation.

Drew Tinnin
Associate Vice President for Student Life and Interim Dean of Students
Student Center, Third Floor
856.256.4283
tinnin@rowan.edu

The Office of the Associate Vice President for Student Life and Dean of Students provides guidance and support to students in the following areas; students facing prolonged absences due to a health problem or other extenuating circumstances; reporting sexual assault; and other related student issues.

Campus Recreation

Kevin George
Director
856.256.4927
georgek@rowan.edu

Campus Recreation is committed to providing exceptional programs, services, and facilities that promote and encourage a balanced, healthy lifestyle. We are dedicated to creating a safe, welcoming, and inclusive environment that enhances student learning and skill development, fosters enjoyment and appreciation for recreational life, and enriches the quality of life for the Rowan Community.

The Recreation Center is a three-story, 76,000 square foot recreational activities facility. The building houses an eight-lane swimming pool, a three-lane indoor track, a three-court multi-sport gymnasium, five racquetball courts (one used for indoor cycling) and a group exercise room. The facility also has a 9,000 square foot fitness and weight room, conference room, locker/shower facilities, and a juice/smoothie bar and café. The main desk of the facility operates as ID access/control area, equipment checkout center, and as the program/membership registration area.

The Satellite Fitness Center is located on the corner of Mick Dr. and Victoria Ave. and encompasses over 17,000 square feet. The building offers a free weight room, spaces for functional training, connected cardiovascular equipment, non-motorized equipment, various multi-functional strength systems, and a men's, women's and inclusive locker/shower rooms.

The Recreation Center offers 18 hour days and the Satellite Fitness Center offers 16 hour days during the academic year, with modified hours during the weekends, holidays, and breaks over the course of the year.

Access to facilities, programs, and services is granted to full time students with a current and active Rowan ID card. Students taking 6 or fewer credits may purchase a membership.

Campus Recreation offers a broad range of programs and services; coordinating or co-sponsoring over 200 programs annually in the following programmatic areas: intramural sports, fitness and wellness, aquatics, sport clubs, informal recreation and special events. Although the foundation of our department rests on serving student recreational needs as a priority, we are also committed to a broader constituency.

Card Services Office

Christine Noon
Director of Card Services
Chamberlain Student Center
856.256.4531
noon@rowan.edu

The Card Services Office is responsible for managing all aspects of the official Rowan University identification card and coordination of all activities related to the use of the RowanCard. These responsibilities include managing the University wide card system applications, monitoring the University wide card systems for proper performance, coordinating all distributed responsibilities for University wide card systems, and coordinating integration of all departmental card system applications. The office provides all training related to card systems amongst all campuses. In addition, the office serves as the point of contact for students experiencing problems with their ID card.

Community Standards

Joseph Mulligan
Assistant Vice President
Chamberlain Student Center, Suite 210
856.256.4242
mulligan@rowan.edu

The Office of Community Standards articulates and upholds the standards of behavior expected within the University community. The office addresses violations of the student code of conduct through the university disciplinary system to ensure respect for all members of the community and the maintenance of a collaborative and learning-centered environment.

Counseling and Psychological Services

Scott Woodside
Interim Director of the Wellness Center
Wellness Center at Winans Hall
856.256.4333
wellnesscenter@rowan.edu

Counseling and Psychological Services (CPS) at the Wellness Center provides confidential mental health and substance abuse services to enrolled students. CPS provides individual and group counseling, triage and emergency evaluations, psychological testing and outreach programs in the area of mental health and substance abuse prevention. Some common areas addressed in counseling for college students include addressing academic stressors, coping with personal and family relationship issues, stress and anxiety management, coping with depression, eating and body image issues, dealing with grief and loss, trauma and substance use.

The University's Stress Management and Response Team (SMART) is coordinated through the Wellness Center and each professional staff is a core member of the team. This university-wide group is available to meet with various divisions, departments, organizations, and groups on campus in order to assist with response to traumatic events that impact particular groups of students or university community as a whole.

Healthy Campus Initiatives

Allie Pearce, MA
Assistant Director, Healthy Campus Initiatives
Wellness Center at Winans Hall
856.256.4333
hci@rowan.edu

Healthy Campus Initiatives (HCI) at the Wellness Center educates students about making healthy decisions and choices regarding their personal wellness that will enhance their college experience. All members of the Rowan community are encouraged to attend workshops, programming, and campus events aimed at increasing knowledge and developing attitudes and beliefs that promote health and wellness in several areas. These areas include suicide prevention and sexual health.

Student Center & Campus Activities

Joe Lizza, Ed.D.
Director
856.256.4696
lizzaj@rowan.edu

The Chamberlain Student Center & Campus Activities (SCCA) team is committed to providing a safe, welcoming, and inclusive environment for all members of the Rowan University community. Through quality programs, services, and facilities, the SCCA creates opportunities for student engagement and learning, stimulates personal development, and contributes to building campus community in collaboration with university partners.

Everyone who walks through the doors of the Chamberlain Student Center will experience the best services, programs, and staff while developing a lifelong connection to the University.

Student Health Services

Scott Woodside
Director for Student Health Services
Wellness Center
856.256.4333
wellnesscenter@rowan.edu

Student Health Services (SHS) at the Wellness Center strives to remove health-related barriers to learning, to promote optimal wellness, to enable students to make informed decisions about health issues, and to empower students to be self-directed and well informed health care consumers.

Licensed physicians, nurse practitioners and registered nurses provide quality, professional healthcare to all students who are matriculated and currently enrolled at Rowan University.

All incoming matriculated students must provide SHS with a complete health record that can be downloaded from our website. This packet has simple, yet detailed information regarding your immunization history and other health requirements that must be submitted by July 15th (December 15th for Spring admission).

All matriculated students are required to have health insurance as a condition of full time enrollment at Rowan University. To enroll in the health insurance plan offered by United Healthcare, visit www.firststudent.com and follow the instructions. To waive the Rowan University health insurance plan, visit the Health Insurance tab on the Bursar's Office website, www.rowan.edu/bursar, and follow the instructions. Failure to waive the United Insurance plan will result in automatic enrollment into the plan. Further information is available at the "Health Insurance" or the "Mandatory Pre-Entrance Health Forms" tabs at the left on our website www.rowan.edu/health.

Volunteerism, Community Engagement & Commuter Services

Andrew Perrone
Assistant Director
Chamberlain Student Center, Suite 210
856.256.4597
perrone@rowan.edu

The Office of Volunteerism, Community Engagement & Commuter Services provides programming, resources, and support to promote a Rowan community of active citizens. We work collaboratively with university faculty and community partners to design a range of curricular and co-curricular service-learning opportunities. Students who engage with service learning, volunteerism and community engagement at Rowan will reflect on meaningful volunteer experiences as they develop a lifelong commitment to their communities. We also collaborate with Glassboro Administration and officials to assist with community concerns that may arise related to Rowan students sharing community life with residential neighbors. Furthermore, the VCECS office also provides programming and support resources geared towards Rowan University's commuter student population.

University Advising Services

University Advising Services, UAS, is an organization of professional academic advisors within the Student Success area of the Division of Student Affairs. The hallmarks of UAS advising are exceptional student-centeredness and responsiveness; excellence in advisor training and ongoing professional development; adherence to standard advising services and protocols; and collaboration with academic units and other campus personnel and services. UAS works to construct a collaborative, learning-centered environment committed to engaging students in the development and implementation of meaningful educational goals, informed academic planning, and major selection consistent with their personal values, interests, and abilities. We also provide our students guidance with regard to effective navigation of university systems and processes. UAS partners with Departments and Colleges to provide and coordinate advising services to Rowan students in specific majors. UAS offers a range of services, including individual appointments, walk-in hours, group advising sessions in or out of class sessions, and more.

University Advising Center (UAC)

Carol Eigenbrot
Associate Director
Savitz Hall, Third Floor
856.256.4459
eigenbrotc@rowan.edu

The University Advising Center (UAC) serves as the advising hub for advising related information. In addition, academic advisors in the UAC advise all Exploratory Studies students and all students considering changing their major, as well as students in select majors.

College of Education Advising Center

Dorothy Abruzzo-Klumpp
Associate Director
Herman D. James Hall, Second Floor
856.256.4420
abruzzo-klumpp@rowan.edu

The College of Education Advising Center provides academic advising for students enrolled in College of Education programs and selected School of Health Professions programs. Additionally, informational meetings are available for students considering these programs.

UAS Services for CHSS, CCCA, SEE, and CPA

Julia Beth Rey
Associate Director
Herman D. James Hall, Third Floor
856.256.5871

UAS Services for RCB, CSM, and SHP

Amy Ruymann
Associate Director
Business Hall 305F
856.256.5563

Academic Success Center

John Woodruff

Director

Savitz Hall, 3rd floor

856.256.4259

successcenter@rowan.edu

The Academic Success Center provides a myriad of comprehensive programs and services that assist students in enhancing and maximizing their academic potential from Orientation through Graduation. The Center provides services in the following areas; tutorial services, veterans affairs, disability resources, testing, academic coaching program, and an array of academic support workshops. Disability Resources provides accommodations and assistance to students with various documented disabilities in accordance with Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act (ADA) of 1990. Students who meet University admissions requirements (i.e., otherwise qualified to attend the University) are required to submit appropriate documentation so that the University can determine whether they qualify for reasonable accommodations. Veterans Affairs handles all military education benefits and provides support services for our student veterans and programming for the campus community to recognize and appreciate their contributions.

The International Center

Gokhan Alkanat

Hawthorn Hall, 313

856.256.5191

alkanat@rowan.edu & rowanic@rowan.edu

www.rowan.edu/international

The International Center (IC) supports the internationalization and globalization of Rowan University by offering comprehensive services in the following areas:

- Creation and cultivation of partnerships with overseas institutions
- Cultural adjustment of international students
- English Language Program
- Immigration advising for international students and scholars
- International Travel Policy
- Recruitment and admissions of international graduate students
- Study Abroad programs

Tutoring Center

Laura Repsher

Coordinator

Savitz Hall, Third Floor

856.256.4462

tutoring@rowan.edu

Tutoring is available free of charge to all Rowan University undergraduate students. The Tutoring Center provides small-group or drop-in tutoring in most subject areas. Students may request academic assistance on a one time basis or may be scheduled for regular assistance on a weekly basis throughout the semester. The purpose of tutoring is to complement classroom instruction, not replace it. Workshops on learning strategies and effective study techniques are presented at various times throughout the academic year.

Division of Information Resources & Technology (IRT)

Mira Lalovic-Hand, President and CIO

Memorial Hall

856.256.4401

irt@rowan.edu

www.rowan.edu/irt

For help with a technology-related issue, please contact:

IRT Support Center

856.256.4400

support@rowan.edu

The Division of Information Resources & Technology (IRT) provides university-wide support for all information resources governance processes, information technology infrastructure, information security, business applications, data governance, and information management services.

IRT is committed to helping students, faculty and staff with computer, network, telephone/voicemail, username/password and other technology issues. IRT provides that support via phone, email, in-person consultations and on-site visits.

By providing the university with information and technology resources and services that support and enhance academic and administrative programs, IRT promotes student-centeredness, excellence in instructional practice, quality management, and efficiency and integrity of operations.

Division of Medical Initiatives and Affiliated Campuses

James A Newell
Senior Vice President
856.256.5931
newell@rowan.edu

The Division of Medical Initiatives and Affiliated Campuses oversees all academic initiatives and partnerships not centered around the Glassboro Campus. Direct areas of responsibility include the Rowan University School of Biomedical Sciences (RowanGSBS), Rowan University Graduate School of Osteopathic Medicine (RowanSOM), Cooper Medical of Rowan University (CMSRU), the College of Health Sciences in Camden (which operates as a joint venture with Rutgers-Camden), the Camden Campus, and programs with Rowan College of South Jersey and Rowan College of Burlington county.

Cooper Medical School at Camden

Annette C. Reboli, M.D.
Dean
Professor of Medicine
Medical Education Building, CMSRU, Camden
856.361.2800
reboli@rowan.edu

The Cooper Medical School of Rowan University (CMSRU), located in Camden, NJ, admitted its inaugural class in August 2012 and is the first new medical school to open in New Jersey in 39 years. CMSRU is committed to providing humanistic education in the art and science of medicine within a scientific and scholarly community in which inclusivity, excellence in patient-care, innovative teaching, research, and service to our community are valued. The focus of CMSRU is to graduate physician leaders through an innovative curricular model that emphasizes care of the underserved. In May 2016, the members of the Charter Class received the MD degree.

Rowan University School of Osteopathic Medicine

Thomas A. Cavalieri, D.O., MACOI, FACP
Dean
Academic Center, RowanSOM, Stratford
856.566.6996
cavalita@rowan.edu

Rowan University School of Osteopathic Medicine (RowanSOM) joined Rowan in July 2013. Established in 1976, RowanSOM is New Jersey's only osteopathic medical school and is committed to excellence in medical education, research, and health care for New Jersey and the nation. RowanSOM includes three nationally recognized institutes for research and treatment: the NJ Institute for Successful Aging (NJISA), the Child Abuse Research Education and Service (CARES) Institute, and the NeuroMusculoskeletal Institute (NMI). In 2019, the Rowan Integrated Special Needs Center (RISN) was established to provide care for people with physical, intellectual, and developmental disabilities. RowanSOM's osteopathic philosophy emphasizes primary health care and community health services, and with our specialty care and centers of excellence, it demonstrates our commitment to innovation and quality. RowanSOM trains clinically skillful, compassionate and culturally competent physicians from diverse backgrounds who are prepared to become leaders in their communities. RowanSOM also continues to expand Graduate Medical Education programs to ensure the successful placement of our graduates. Rowan University School of Osteopathic Medicine is accredited by the Commission on Osteopathic College Accreditation (COCA).

Rowan University Graduate School of Biomedical Sciences

Carl E. Hock, Ph.D.

Senior Associate Dean

Rowan Medicine Building, RowanSOM, Stratford

856.566.6282

hock@rowan.edu

The Rowan University Graduate School of Biomedical Sciences (RowanGSBS) became part of Rowan in July 2013. RowanGSBS offers a Ph.D. in Cell and Molecular Biology; Master of Science in Cell and Molecular Biology; Master of Biomedical Sciences (non-thesis); Certificate in the Biomedical Sciences; Master of Science in Molecular Pathology and Immunology; and a Master of Science in Histopathology (non-thesis). Dual degree programs include Dual D.O./Ph.D., and Accelerated B.S./M.S. dual programs in Biochemistry, Bioinformatics, Biology, Biophysics, Molecular and Cellular Biology or Translational Biomedical Science with the Rowan University College of Science & Mathematics and the RowanGSBS Master of Science in Cell and Molecular Biology.

Rowan University Libraries

Scott P. Muir

Associate Provost for Library Information Services

Keith and Shirley Campbell Library

856.256.4800

muir@rowan.edu

Rowan University Libraries supports the University's educational and research mission through the judicious selection, management, promotion, and training in the use of information resources and services. Rowan University Libraries provides the Rowan community with access to an extensive range of resources and services, which are accessible through four physical libraries and through the Libraries' website. Reference librarians are available in all libraries for research consultation and to assist patrons in identifying, locating, accessing, and evaluating both print and online resources.

Keith and Shirley Campbell Library

The Keith and Shirley Campbell Library, the main library, is on the Glassboro campus. Opened in 1995, the 118,000 sq. ft. facility, houses nearly 350,000 print books, multimedia materials, periodicals, newspapers, and special collections in a variety of formats. Rowan University Libraries subscribes to 95,000 online journals and thousands of other e-resources that are available 24/7 through the Libraries' website. The collection includes nearly 800,000 e-books. Librarians are available to assist students virtually via "Ask a Librarian" chat, email, and text services. Rowan's Libraries participate in a number of local consortia groups to provide patrons with materials not available to them at Rowan University.

Campbell Library staff provide orientations, tours, and workshops throughout the academic year. A 30-workstation lab is available for student use, as well as library instruction, on the first floor. Additional computer workstations are also available on the second and third floors. And, 17 group study rooms are available throughout the building for use by students.

Digital Scholarship Center

Campbell Library also houses the Digital Scholarship Center, a collaborative environment to support Rowan community members in the exploration of emerging digital technologies. Students, faculty, and staff are welcome to bring projects to work on collaboratively. They can access technology resources available through the Rowan Cloud and brainstorm projects with trained library staff. And, they can engage in self-paced technology discovery.

The Performing Arts Collection

Located on the second floor, the Collection offers specialized information services and instruction for students and faculty. The Performing Arts Collection houses significant collections of scores, CDs, scripts, and recordings. Specialty databases are available through the Rowan University Libraries website.

University Archives and Special Collections

University Archives and Special Collections are housed on the third floor of the Campbell Library. Historic state documents and materials on the history of Rowan University are primary sources useful for study. The collection has grown to include a wide range of important source materials beginning with the Colonial and Revolutionary eras. Researchers and scholars from across the nation use these important collections. The University Archives include items from the historic summit in 1967 between President Lyndon Johnson and Soviet Premier Aleksei Kosygin, which took place at the Hollybush mansion on campus.

The CMSRU Library

The CMSRU Library, located inside Cooper Medical Center, serves the faculty, staff, and students of CMSRU; Cooper Medical Center; and members of the Rowan University community. The Library houses a small collection of print books and journals in the clinical and basic sciences. The bulk of the collection is comprised of electronic books, journals, databases, and related specialty collections. These are linked via the library website and are available to users 24/7. There is also a Learning Commons located inside the CMSRU building.

The Rowan SOM Health Sciences Library

The Health Sciences Library is located in the Academic Center building. It serves all students, faculty, and staff on the Stratford Campus, as well as members of the Rowan University community. The Library houses an extensive collection of print books and journals in the clinical and basic sciences. In addition, a collection of electronic journals, electronic books, and a wide variety of image databases and collections are available through the Libraries' web page.

Policies and Procedures

All Rowan University policies are posted on a central web portal.

<https://confluence.rowan.edu/display/POLICY/Administrative+Policies>

William G. Rohrer College of Business

Sue Lehrman
Dean
Business Hall
856.256.4025
lehrman@rowan.edu

Morris A. Kalliny
Associate Dean
Business Hall
856.256.4025
kalliny@rowan.edu

Karen Murtha
Assistant Dean
Business Hall
856.256.4047
murthak@rowan.edu

Jennifer Maden
Assistant Dean and Director of Graduate Studies
Business Hall
856.256.5220
maden@rowan.edu

Stephen M. Kozachyn
Director, Experiential Learning
Business Hall
856.256.4126
kozachyn@rowan.edu

Amie Ryno
Manager, Center for Professional Development
Business Hall
856.256.5222
ryno@rowan.edu

Joseph Antonia Delgado
Senior Director of Development
Business Hall
856.256.5227
delgadoj@rowan.edu

Dr. Cheryl Bodnar
Assistant Director for Faculty Programs, Rowan Center for Innovation and Entrepreneurship
Robinson Hall, Rm 230
856.256.5398
bodnar@rowan.edu

Mission

We empower students to achieve sustainable careers through professionally oriented programs and real-world immersion experiences, integrating relevant faculty research, entrepreneurial thinking, responsible leadership, and community collaboration.

We achieve our mission through a commitment to –

Professionally Oriented Programs and Sustainable Careers: Our students develop the strong disciplinary expertise, poise and professionalism necessary to excel in their first positions as alumni from our programs, as well as the skills to tackle new opportunities as technologies and business models evolve. We feature career-oriented dual-degree options, major-minor pairings, and the ability to combine certificate programs with existing majors.

Entrepreneurial Thinking and Responsible Leadership: We offer entrepreneurially focused curricular and co-curricular programs to help students develop the creativity, initiative, and persistence that characterize the entrepreneurial mindset. As a PRME founding signatory, we are committed to developing students' abilities to generate sustainable value for their employers and society at large.

Relevant Faculty Research: We are aligned with the University's broad definition of research, which includes activities that positively impact the educational experience, the scholarly community, and the economic vitality of the region.

Real-world Immersion and Community Collaboration: We provide multiple real-world immersion experiences for our students that set them apart in a crowded job market. This, combined with our commitment to the economic development of the region, compels us to actively engage with the business and nonprofit communities in our region in ways that benefit all.

Vision

To be a first choice business school for enterprising students and discerning employers, a research hub, and an economic catalyst for the region and beyond.

Accreditation

Rowan University's business programs are accredited by AACSB International (The Association to Advance Collegiate Schools of Business). To achieve this prestigious accreditation, the business programs successfully demonstrated a wide range of quality standards relating to faculty qualification, strategic management of resources, interactions of faculty and students, as well as a commitment to continuous improvement and achievement of learning goals in degree programs.

In addition, the College is just one of a few AACSB International schools in the nation to have the Management Information Systems Program also accredited by ABET, the Accreditation Board for Engineering and Technology, Inc.

Departments

The William G. Rohrer College of Business houses the departments of Accounting and Finance, Management and Entrepreneurship, and Marketing and Business Information Systems. (Not all department offerings are run through the Division of Global Learning & Partnerships.)

Programs Offered

All graduate business programs offered through Rowan Global are listed below in order of degree/program type and then in alphabetical order by program name. Details about each program are then listed within the catalog in the same order. For the most up-to-date information regarding mode of delivery options for your program of interest, please visit www.rowanu.com/programs.

Please note courses can be taken either face-to-face (F2F) on the Glassboro campus, hybrid (H) at the Rowan College of Burlington County (RCBC) Mount Laurel campus, or online (OL). Format availability and options for graduate programs vary each semester.

MASTER'S DEGREES

<u>Program Name</u>	<u>Format/Location</u>	<u>Program/Major Codes</u>	<u>Avail FT/PT</u>	<u>Total Credits</u>
Master of Business Administration (Glassboro campus)	F2F	MBA-BUS/G501	Both	36
Master of Business Administration (Online)*	100% OL*	MBA-BUS/G501	Part-time	36
Master of Business Administration (RCBC Mount Laurel campus)*	H*	MBA-BUS/G501	Part-time	36
Master of Science in Finance	100% OL*	MS-FIN/G514	Part-time	30

*Regardless of which version of the MBA program students enter into, students are able to enroll in and complete courses offered on campus in Glassboro, hybrid courses offered at RCBC Mount Laurel, and online courses, all depending on interests, offerings, and needs.

MBA Concentration

<u>MBA Concentration</u>	<u>Concentration Codes</u>
Accounting	C500
Finance	C504
Management	C522
Management Information Systems	C521
Supply Chain & Logistical Systems	C523

CERTIFICATES OF ADVANCED GRADUATE STUDY / CAGS (NON-DEGREE)

Please note courses can be taken either face-to-face (F2F) on the Glassboro campus, hybrid (H) at the Rowan College of Burlington County (RCBC) Mount Laurel campus, or online (OL). Format availability and options for certificate programs vary each semester.

<u>Program Name</u>	<u>Format/Location</u>	<u>Program/Major Codes</u>	<u>Avail FT/PT</u>	<u>Total Credits</u>
Certificate of Advanced Graduate Study in Accounting	F2F, H, OL*	CAG-BUSACCT/G551	Part-time	9
Certificate of Advanced Graduate Study in Finance	F2F, H, OL*	CAG-BUSFIN/G553	Part-time	9
Certificate of Advanced Graduate Study in Management	F2F, H, OL*	CAG-BUSMANG/G554	Part-time	9
Certificate of Advanced Graduate Study in Management Information Systems (MIS)	F2F, H, OL*	CAG-BUSMIS/G556	Part-time	9

*Regardless of which version of the CAGS program students enter into, students are able to enroll in and complete courses offered on campus in Glassboro, hybrid courses offered at RCBC Mount Laurel, and online courses, all depending on interests, offerings, and needs.

CERTIFICATES OF GRADUATE STUDY / COGS (NON-DEGREE)

Please note courses can be taken either face-to-face (F2F) on the Glassboro campus, hybrid (H) at the Rowan College of Burlington County (RCBC) Mount Laurel campus, or online (OL). Format availability and options for certificate programs vary each semester.

<u>Program Name</u>	<u>Format/Location</u>	<u>Program/Major Codes</u>	<u>Avail FT/PT</u>	<u>Total Credits</u>
Certificate of Graduate Study in Accounting	F2F, H, OL*	COG-ACCT/G139	Part-time	12
Certificate of Graduate Study in Business	F2F, H, OL*	COG-BUSINESS/G133	Both	15
Certificate of Graduate Study in Management Information Systems (MIS)	F2F, H, OL*	COG-MIS/G131	Part-time	12

*Regardless of which version of the COGS program students enter into, students are able to enroll in and complete courses offered on campus in Glassboro, hybrid courses offered at RCBC Mount Laurel, and online courses, all depending on interests, offerings, and needs.

Academic Program Policy Categories

For the purposes of both the Minimum Satisfactory Academic Progress policy and the Minimum Graduation Requirements policy, post-baccalaureate/graduate academic programs administered by Rowan Global at Rowan University fall into one of three major categories which are identified by their grade requirements as outlined below. (See individual program descriptions for academic categories.)

Category 1: To maintain Minimum Satisfactory Academic Progress in and to successfully graduate from a Category 1 program students must:

- Earn no more than two total “B-“ grades
- Earn no grades lower than a “B-”
- Earn an official cumulative GPA (according to matriculation level) of at least 3.000 on Rowan’s 4.000 scale

Category 2: To maintain Minimum Satisfactory Academic Progress in and to successfully graduate from a Category 2 program students must:

- Earn no grades lower than a “B-”
- Earn an official cumulative GPA (according to matriculation level) of at least 3.000 on Rowan’s 4.000 scale

Category 3: To maintain Minimum Satisfactory Academic Progress in and to successfully graduate from a Category 3 program students must:

- Earn no more than two total C grades of any combination of “C+” or “C.” (C- grades are not acceptable.)
- Earn no grades lower than a “C”
- Earn an official cumulative GPA (according to matriculation level) of at least 3.000 on Rowan’s 4.000 scale

Policy Prior to Fall 2013 Matriculation

The academic review and minimum graduation requirements review policies will be applied to Rowan graduate and post-baccalaureate students who matriculate beginning Fall 2013 or later; however, current students (those matriculated and active before Fall 2013) will be grandfathered under the prior policy/practice, whose grade and GPA requirements are the same as Academic Review Category 3.

Master's Degrees

Master of Business Administration (MBA)

The Master of Business Administration (MBA) program at Rowan University provides contemporary graduate business education to professionals from diverse fields and academic backgrounds. The program prepares students as team leaders and team players with effective interpersonal, oral, and written communication and group process skills. The MBA curriculum emphasizes critical thinking, quantitative analysis and computing applications, and the technological and international nature of business.

The William G. Rohrer College of Business MBA program offers small class sizes with an average student/faculty ratio of 18 to 1. The program attracts graduates from business, sciences, engineering, and other programs, whose careers are leading them to positions of increasing responsibility in business, government, and non-profit organizations. Graduates are prepared to assume leadership roles across sectors, industries, and fields.

The MBA program consists of 12 graduate classes with nine required and three elective courses. Prospective students who do not have the required foundation courses may choose to apply directly to the MBA program and complete their foundation courses while enrolled as a graduate student.

For students enrolled in the face-to-face MBA, the three elective courses allow the individual student to tailor the academic program to meet his or her specific career development needs by pursuing an area of concentration. For students enrolled in the fully online program or the hybrid program at Rowan College of Burlington County (RCBC), the three elective courses will be offered based on availability (more information is provided below). Regardless of which version of the program students enter into, students are able to enroll in and complete courses offered on campus in Glassboro, hybrid courses offered at RCBC, and online courses, all depending on interests, offerings, and needs.

Rowan's MBA program is designed to accommodate both full-time students and full-time employees. The program is personal, pragmatic, and progressive. Face-to-face classes are conveniently scheduled in the evening to accommodate demanding work schedules. Rowan's reputation makes the MBA a wise investment. Rowan's MBA tuition is among the lowest for AACSB accredited programs in the Philadelphia region.

Foundation Courses

Eligible applicants must have successfully completed the following undergraduate foundation courses at an accredited institution. (Foundation courses FC-6 and FC-7 must be completed at a 4-year institution to fulfill foundation course requirements. FC-1 through FC-5 may be taken at a junior/community college.) During the admissions process, the MBA academic advisor will determine foundation course equivalencies and which unfinished undergraduate foundation courses can be scheduled concurrently with graduate enrollment. If applicable, official notification of any unfinished foundation courses will be included in the applicant's official admission decision letter from Rowan University.

- FC-1. Calculus Techniques & Applications (3 s.h.)
- FC-2. Statistics I (3 s.h.)
- FC-3. Foundations of Accounting (3 s.h.) or Principles of Accounting I & II
- FC-4. Principles of Economics: A Survey (3 s.h.) or Microeconomics & Macroeconomics
- FC-5. Principles of Marketing (3 s.h.)
- FC-6. Principles of Finance (3 s.h.)
- FC-7. Operations Management (3 s.h.)

MBA CONCENTRATIONS

The MBA program offers the degree with the following concentration options.

- Accounting
- Finance
- Management Information Systems (MIS)
- Management
- Supply Chain & Logistical Systems
- General Business (offered fully online and to RCBC students)

Program Requirements

Required Courses

27 s.h.

(s.h.: semester hours/credit hours)

<u>Course #</u>	<u>Course Title</u>	<u>S.H.</u>
ACC 03500	Managerial Accounting	3

FIN 04500	Financial Decision Making	3
MGT 01510	Professional, Legal & Managerial Responsibilities	3
MGT 06500	Designing, Developing & Leading High Performance Organizations	3
MGT 06502	International Business and Society	3
MGT 06629	Managing Organizational Strategy	3
MGT 07500	Managerial Decision Making Tools	3
MIS 02500	Issues in Management Information Systems	3
MKT 09500	Marketing Management	3

Concentration Courses

Accounting 9 s.h.

Choose 9 s.h. from the following options

<u>Course #</u>	<u>Course Title</u>	<u>S.H.</u>
ACC 03502	Advanced Managerial Accounting	3
ACC 03507	Government & Not-for-Profit Accounting	3
ACC 03509	Intermediate Financial Accounting	3
ACC 03510	Financial Statement Analysis	3
ACC 03511	Introduction to Federal Taxation	3
ACC 03512	Advanced AIS & Business Process Controls	3
ACC 03513	CPA Review	3
ACC 03514	Accounting Legal Liability & Professional Responsibility	3
ACC 03515	Forensic Accounting	3

Finance 9 s.h.

Choose 9 s.h. from the following options

<u>Course #</u>	<u>Course Title</u>	<u>S.H.</u>
BUS 01600	Special Topics in Business Administration (finance topic)	3
FIN 04505	Advanced Financial Planning	3
FIN 04510	Quantitative Methods in Finance	3
FIN 04516	Issues in Finance	3
FIN 04518	Derivative Securities & Financial Risk Management	3
FIN 04520	Financial Modeling	3
FIN 04530	Multinational Financial Management	3
FIN 04540	Financial Institutions Management	3
FIN 04560	Fixed Income Securities	3
FIN 04600	Investment Analysis & Portfolio Management	3

Management 9 s.h.

Choose 9 s.h. from the following options

<u>Course #</u>	<u>Course Title</u>	<u>S.H.</u>
BUS 01600	Special Topics in Business Administration (management topic)	3
ENT 06505	Entrepreneurship & Innovation	3
HRM 06605	Strategic Human Resource Management	3
MGT 06501	Advanced Operations Management and Strategy	3
MGT 06503	Organization Development	3
MGT 06520	Global Leadership & Organization Culture	3
MGT 06601	Strategic Planning for Operating Managers	3
MGT 06603	Business Processes & Improvement	3
MGT 07600	Predictive Analytics	3

Management Information Systems 9 s.h.

Choose 9 s.h. from the following options

<u>Course #</u>	<u>Course Title</u>	<u>S.H.</u>
MIS 02515	Electronic Commerce	3
MIS 02522	Systems Analysis & Design	3
MIS 02525	Project Management	3
MIS 02538	Database Design	3
MIS 02599	Special Topics in MIS	3

Supply Chain & Logistics Systems

Course #	Course Title	S.H.
MKT 09575	Introduction to Logistics & Supply Chain Management	3
MKT 09605	Competitive Advantage Through Supply Chain Management	3

AND

Choose one (1) from the following options. 3 s.h.

Course #	Course Title	S.H.
MGT 06603	Business Processes & Improvement	3
MIS 02522	Systems Analysis & Design	3

General Business

Fully online students: Choose three (3) courses from those listed above for a total of nine (9) semester hours. (Not all electives will be offered online each term. There may be options not included above.) 9 s.h.

RCBC students: Students in the Rowan College of Burlington County program will take the following three elective courses for a total of nine (9) semester hours.

MGT 06601	Strategic Planning for Operating Managers	3
MIS 02525	Project Management	3
MKT 09575	Introduction to Logistics & Supply Chain Management	3

Total Required Credits for the Program 36 s.h.

Foundation Courses

See "Foundation Courses" above.

Graduation/Exit, Benchmark & Thesis Requirements

None

Minimum Required Grades and Cumulative GPA

The MBA is a Category 3 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Director Contact Information

Jennifer Maden
Assistant Dean
Business Hall
856.256.5220
maden@rowan.edu

Master of Science in Finance

The Rowan University Online Master of Science in Finance is a rigorous program that combines quantitative techniques with practical experience. This program is designed to prepare students for financial analyst and financial planner positions in corporations and financial institutions. Rowan's M.S. in Finance program will help prepare students for the Chartered Financial Analyst (CFA) and Certified Financial Planner (CFP) exams, the premier certifications in the finance field.

Program Requirements

The Master of Science in Finance requires a total of 30 semester hours of graduate coursework for program completion.

Required Courses 30 s.h.

(s.h.: semester hours/credit hours)

Course #	Course Title	S. H.
ACC 03510	Financial Statement Analysis	3.0
FIN 04500	Financial Decision Making	3.0
FIN 04505	Advanced Financial Planning	3.0
FIN 04511	Quantitative Methods in Finance	3.0
FIN 04518	Derivative Securities & Financial Risk Management	3.0
FIN 04520	Financial Modeling	3.0
FIN 04530	Multinational Financial Management	3.0
FIN 04540	Financial Institutions Management	3.0

FIN 04560	Fixed Income Securities	3.0
FIN 04600	Investment Analysis and Portfolio Management	3.0

Total Required Credits for the Program 30 s.h.

Foundation Courses

- FC-1. Foundations of Accounting OR Principles of Accounting I & II
- FC-2. Principles of Economics: A Survey OR Macroeconomics and Microeconomics
- FC-3. Statistics I
- FC-4. Calculus I OR Calculus Techniques and Applications
- FC-5. Principles of Finance

Graduation/Exit, Benchmark, and Thesis Requirements

None

Minimum Required Grades and Cumulative GPA

The Master of Science in Finance is a Category 3 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Advisor Contact Information

Jia Wang

Business Hall

856.256.4000 ext. 3461

wangji@rowan.edu

Certificates of Advanced Graduate Study (Non-degree)

Certificate of Advanced Graduate Study (Post-MBA CAGS) Overview

Completion of a Certificate of Advanced Graduate Study (CAGS) will afford Rowan MBA alumni as well as MBA graduates of other AACSB accredited universities the opportunity to complete an area of concentration or complete a new concentration. The Post MBA CAGS provides MBA graduates an opportunity to prepare themselves for opportunities in a rapidly changing workplace by enrolling in concentrations related to their current or expected career paths.

Concentrations

The Post-MBA CAGS program offers the following concentration options: Accounting, Finance, Management, and Management Information Systems (MIS).

Certificate of Advanced Graduate Study in Accounting (CAGS)

See "Certificate of Advanced Graduate Study (Post-MBA CAGS) Overview."

Program Requirements

Required Courses

9 s.h.

(s.h.: semester hours/credit hours)

Choose three (3) graduate business courses beginning with ACC03500 such as the following options:

<u>Course #</u>	<u>Course Title</u>	<u>S.H.</u>
ACC 03502	Advanced Managerial Accounting	3
ACC 03507	Government & Not-for-Profit Accounting	3
ACC 03509	Intermediate Financial Accounting	3
ACC 03510	Financial Statement Analysis	3
ACC 03511	Introduction to Federal Taxation	3
ACC 03515	Forensic Accounting and Fraud Examination	3
FIN 04512	Capital Budgeting	3

Total Required Credits for the Program 9 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark & Thesis Requirements

None

Minimum Required Grades and Cumulative GPA

The CAGS in Accounting is a Category 3 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Director Contact Information

Jennifer Maden
Assistant Dean
Business Hall
856.256.5220
maden@rowan.edu

Certificate of Advanced Graduate Study in Finance (CAGS)

See “Certificate of Advanced Graduate Study (Post-MBA CAGS) Overview.”

Program Requirements

Required Courses

9 s.h.

(s.h.: semester hours/credit hours)

Choose three (3) graduate business courses beginning with FIN04500 such as the following options:

<u>Course #</u>	<u>Course Title</u>	<u>S.H.</u>
BUS 01600	Special Topics in Business Administration (Finance topic)	3
FIN 04512	Capital Budgeting	3
FIN 04516	Issues in Finance	3
FIN 04518	Derivative Securities and Financial Risk Management	3
FIN 04600	Investment/Portfolio Analysis	3

Total Required Credits for the Program

9 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark & Thesis Requirements

None

Minimum Required Grades and Cumulative GPA

The CAGS in Finance is a Category 3 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator Contact Information

Jennifer Maden
Assistant Dean
Business Hall
856.256.5220
maden@rowan.edu

Certificate of Advanced Graduate Study in Management (CAGS)

See “Certificate of Advanced Graduate Study (Post-MBA CAGS) Overview.”

Program Requirements

Required Courses

9 s.h.

(s.h.: semester hours/credit hours)

Choose three (3) graduate business courses beginning with ENT06500, HRM06500, MGT06500 such as the following options:

Course #	Course Title	S.H.
BUS 01600	Special Topics in Business Administration (management topic)	3
ENT 06505	Entrepreneurship & Innovation	3
ENT 06506	Corporate Entrepreneurship & New Venture Development	3
ENT 06599	Special Topics in Entrepreneurship	3
HRM 06605	Strategic Human Resource Management	3
MGT 06501	Advanced Operations Management & Strategy	3
MGT 06503	Organization Development	3
MGT 06520	Global Leadership & Organization Culture	3
MGT 06601	Strategic Planning for Operating Managers	3
MGT 06603	Business Processes & Improvement	3
MGT 07600	Business Forecasting	3
TBD	Graduate level special topics in ENT, HRM, MGT courses are options.	3
<u>Total Required Credits for the Program</u>		9 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark & Thesis Requirements

None

Minimum Required Grades and Cumulative GPA

The CAGS in Management is a Category 3 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Director Contact Information

Jennifer Maden
Assistant Dean
Business Hall
856.256.5220
maden@rowan.edu

Certificate of Advanced Graduate Study in Management Information Systems/MIS (CAGS)

See "Certificate of Advanced Graduate Study (Post-MBA CAGS) Overview."

Program Requirements

Required Courses

9 s.h.

(s.h.: semester hours/credit hours)

Choose three (3) graduate business courses beginning with MIS02500 such as the following options:

Course #	Course Title	S.H.
MIS 02515	Electronic Commerce	3
MIS 02522	Systems Analysis & Design	3
MIS 02525	Project Management	3
MIS 02538	Database Design	3
MIS 02599	Special Topics in MIS	3
TBD	Graduate level special topics in MIS courses are options.	3

Total Required Credits for the Program

9 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark & Thesis Requirements

None

Minimum Required Grades and Cumulative GPA

The CAGS in Management Information Systems/MIS is a Category 3 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Director Contact Information

Jennifer Maden
Assistant Dean
Business Hall
856.256.5220
maden@rowan.edu

Certificates of Graduate Study (Non-degree)

Certificate of Graduate Study in Accounting (COGS)

The Accounting Certificate of Graduate Study (COGS) is designed so that students can expand their knowledge in specialized accounting subjects as well as obtain additional courses needed to reach the 150 credit requirement to be licensed as a CPA. The purpose of the COGS in Accounting can also serve those that wish to gain business expertise for career purposes, as well as an opportunity for aspirational applicants to take several classes before they apply to the MBA Program.

Program Requirements

- Accounting Certificate of Graduate Study at Rowan University requires the completion of 12 graduate semester hours (s.h.) made up of 4 courses.
- Students who have not earned a bachelor’s in accounting must take Managerial Accounting (ACC 03500), along with 3 electives

Required Courses

12 s.h.

(s.b.: semester hours/credit hours)

Choose four (4) from the following options.

Course #	Course Title	S.H.
ACC 03502	Advanced Managerial Accounting	3
ACC 03507	Government & Not-for-Profit Accounting	3
ACC 03509	Intermediate Financial Accounting	3
ACC 03510	Financial Statement Analysis	3
ACC 03511	Introduction to Federal Taxation	3
ACC 03512	Advanced AIS & Business Process Controls	3
ACC 03513	CPA Review	3
ACC 03514	Accounting Legal Liability & Professional Responsibility	3
ACC 03515	Forensic Accounting & Fraud Examination	3
TBD	Graduate level special topics in Accounting courses are options.	3

Total Required Credits for the Program

12 s.h.

Foundation Courses

Foundations of Accounting (3.0 s.h.) or Principles of Accounting I and Principles of Accounting II

Graduation/Exit, Benchmark, and Thesis Requirements

None

Minimum Required Grades and Cumulative GPA

The COGS in Accounting is a Category 3 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Director Contact Information

Jennifer Maden
Assistant Dean
Business Hall
856.256.5220
maden@rowan.edu

Certificate of Graduate Study in Business (COGS)

The Business COGS provides graduate course exposure to students who are ultimately interested in pursuing the MBA degree. There are many potential graduate students who are considering the MBA degree. The purpose of the COGS in Business is to serve as a mini-MBA for those that wish to gain business expertise for career purposes, as well as an opportunity for aspirational applicants to take several classes before they apply to the MBA Program.

Program Requirements

Required Courses 15 s.h.

(s.h.: semester hours/credit hours)

Course #	Course Title	S.H.
ACC 03500	Managerial Accounting	3
MGT 01510	Professional, Legal & Managerial Responsibilities	3
MGT 06500	Designing Developing & Leading High Performance Organizations	3
MIS 02500	Issues in Management Information Systems	3
MKT 09500	Marketing Management	3

Total Required Credits for the Program 15 s.h.

Foundation Courses

Eligible applicants must have successfully completed the following undergraduate foundation courses at a regionally accredited institution. During the admission process, the MBA academic advisor will determine foundation course equivalencies. If applicable, official notification of any unfinished foundation courses will be included in the applicant's official decision letter from Rowan University.

- FC-1. Foundations of Accounting or Principles of Accounting I and II
- FC-2. Principles of Marketing

Students admitted without having completed these foundation courses may complete them while enrolled in the COGS in Business program. The foundation courses must be completed before the corresponding course for which the foundation course is a prerequisite and do not count toward the 15 required semester hours for the program.

Graduation/Exit, Benchmark, and Thesis Requirements

None

Minimum Required Grades and Cumulative GPA

The COGS in Business is a Category 3 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Director Contact Information

Jennifer Maden
Assistant Dean
Business Hall
856.256.5220
maden@rowan.edu

Certificate of Graduate Study in Management Information Systems/MIS (COGS)

The Certificate of Graduate Study in Management Information Systems/MIS (COGS) will enhance a student's preparedness to assume jobs in a world of rapidly changing technology by preparing them to develop business solutions through the use of information and technology resources. Students will be experienced in dealing with technological issues, understand the role of humans in developing technology-based solutions, and have the ability to manage technology-related projects. The purpose of the COGS in MIS is to serve those that wish to gain business expertise for career purposes, as well as an opportunity for aspirational applicants to take several classes before they apply to the MBA Program.

Program Requirements

Required Courses 3 s.h.

(s.h.: semester hours/credit hours)

Course #	Course Title	S.H.
MIS 02500	Issues in Management Information Systems	3

Elective Courses 9 s.h.

Choose three (3) from the following options.

Course #	Course Title	S.H.
MIS 02515	Electronic Commerce	3
MIS 02522	Systems Analysis & Design	3
MIS 02525	Project Management	3
MIS 02599	Special Topics in MIS	3
MIS 02538	Database Design	3
TBD	Graduate level special topics in MIS courses are options.	3

Total Required Credits for the Program 12 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark, and Thesis Requirements

None

Minimum Required Grades and Cumulative GPA

The COGS in Management Information Systems/MIS is a Category 3 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Director Contact Information

Jennifer Maden

Assistant Dean

Business Hall

856.256.5220

maden@rowan.edu

College of Communication & Creative Arts

Sanford Tweedie
Dean
6 East High Street
856.256.4340
tweedie@rowan.edu

Larry Butler
Associate Dean
6 East High Street
856.256.4009
butlerl@rowan.edu

Lori Block
Advisor
301 High Street
856.256.5713
block@rowan.edu

Gina Gondos
Advisor
Bozorth Hall
856.256.4329
gondos@rowan.edu

Alicia Groatman
Advisor
260 Victoria
856.256.4735
groatman@rowan.edu

Esther Mummert
Advisor
Savitz Hall
856.256.4090
mummerte@rowan.edu

David E. Vaccaro
Advisor
Westby Hall
856.256.4091
vaccaro@rowan.edu

History

The College of Communication was established July 1, 1996, after unanimous final approval by the Rowan University Board of Trustees at their June 1996 meeting. In 2012, the Department of Art joined the college, and the college was renamed the College of Communication and Creative Arts to reflect the full range of programs and courses.

Introduction

The College of Communication and Creative Arts at Rowan University blends the theoretical, the creative, and the practical, building upon an expansive base of general education courses that serve to develop a liberal arts perspective in all areas. Experimental learning is a strong component of the programs and internships are encouraged in all majors.

Departments

The College of Communication and Creative Arts houses six departments: Art, Communication Studies, Journalism, Public Relations and Advertising, Radio, Television, and Film, and Writing Arts. (Not all departments offer programs through the Division of Global Learning & Partnerships.)

Programs Offered

All programs offered are listed below in order of degree/program type and then in alphabetical order by program name. Details about each program are then listed within the catalog in the same order. For the most up-to-date information regarding mode of delivery options for your program of interest, please visit www.rowanu.com/programs.

MASTER'S DEGREE

<u>Program Name</u>	<u>Format/location</u>	<u>Program/Major Codes</u>	<u>Avail FT/PT</u>	<u>Total credits</u>
Master of Arts in Strategic Communication	On the Ground/Glassboro campus (some course options available online)	MA-STRATGCOM/G897	Both	33
Master of Arts in Writing	Face-to-Face at Glassboro campus	MA-WRITNG/G608	Both	30

CERTIFICATES OF GRADUATE STUDY (NON-DEGREE)

<u>Program Name</u>	<u>Format/Location</u>	<u>Program/Major Codes</u>	<u>Avail FT/PT</u>	<u>Total Credits</u>
Certificate of Graduate Study in Creative Writing**	Face-to-Face at Glassboro campus	COG-CREATWR/G641	Both	9
Certificate of Graduate Study in Editing and Publishing for Writers**	Face-to-Face at Glassboro campus	COG-EDITGPUB/G640	Both	9
Certificate of Graduate Study in Integrated Marketing Communication & New Media*	100% Online	COG-IMCNM/G132	Part-time	9
Certificate of Graduate Study in School Public Relations*, ***	100% Online	COG-SCHLPR/G616	Part-time	9
Certificate of Graduate Study in Writing, Composition and Rhetoric**	Face-to-Face at Glassboro campus	COG-COMRHET/G116	Both	9
Certificate of Graduate Study in Writing and New Media**	Face-to-Face at Glassboro campus	COG-WRNMEDA/G642	Both	12

*courses in this program count toward the Master of Arts in Strategic Communication.

**courses in this program may count toward the Master of Arts in Writing.

*** courses in this program may count toward the Master of Education in Teacher Leadership.

UNDERGRADUATE DEGREE COMPLETION PROGRAMS

<u>Program Name</u>	<u>Format/location</u>	<u>Program/Major Codes</u>	<u>Avail FT/PT</u>	<u>Total credits</u>
Bachelor of Arts in Applied Professional Communication	Face-to-Face at Rowan College at Burlington County (RCBC) Mount Laurel campus	BA-APPROFCOM/0611	Both	120

CERTIFICATES OF UNDERGRADUATE STUDY (NON-DEGREE)

<u>Program Name</u>	<u>Format/Location</u>	<u>Program/Major Codes</u>	<u>Avail FT/PT</u>	<u>Total Credits</u>
Certificate of Undergraduate Study in Professional Communication	Face-to-Face at Rowan College at Burlington County (RCBC) Mount Laurel campus	CUGS-PROCOMM/U166	Both	12

Admissions

For the most up-to-date information regarding admission requirements, entry points, and application deadlines, please visit www.rowanu.com/programs. Click on your program of interest to be connected to program and admission details.

Academic Program Policy Categories

For the purposes of both the Minimum Satisfactory Academic Progress policy and the Minimum Graduation Requirements policy, post-baccalaureate/graduate academic programs administered by Rowan Global at Rowan University fall into one of three major categories which are identified by their grade requirements as outlined below. (See individual program descriptions for academic categories.)

Category 1: To maintain Minimum Satisfactory Academic Progress in and to successfully graduate from a Category 1 program students must:

- Earn no more than two total “B-” grades
- Earn no grades lower than a “B-”
- Earn an official cumulative GPA (according to matriculation level) of at least 3.000 on Rowan’s 4.000 scale

Category 2: To maintain Minimum Satisfactory Academic Progress in and to successfully graduate from a Category 2 program students must:

- Earn no grades lower than a “B-”
- Earn an official cumulative GPA (according to matriculation level) of at least 3.000 on Rowan’s 4.000 scale

Category 3: To maintain Minimum Satisfactory Academic Progress in and to successfully graduate from a Category 3 program students must:

- Earn no more than two total C grades of any combination of “C+” or “C.” (C- grades are not acceptable.)
- Earn no grades lower than a “C”
- Earn an official cumulative GPA (according to matriculation level) of at least 3.000 on Rowan’s 4.000 scale

Policy Prior to Fall 2013 Matriculation

The academic review and minimum graduation requirements review policies will be applied to Rowan graduate and post-baccalaureate students who matriculate beginning Fall 2013 or later; however, current students (those matriculated and active before Fall 2013) will be grandfathered under the prior policy/practice, whose grade and GPA requirements are the same as Academic Review Category 3.

Master’s Degrees

Master of Arts in Strategic Communication (M.A.)

The Master of Arts in Strategic Communication emphasizes real-world applications of theories and techniques offered in an environment that emphasizes collaborative learning. The program attracts a cross section of students with experience levels ranging from recent graduates to senior managers. The Master of Arts in Strategic Communication curriculum grounds students in four key areas: writing, research, problem solving, and planning. While most students choose to take courses in organizational/corporate public relations, students may also choose to take a series of courses in public affairs or educational public relations and design the master’s project in those areas.

Program Requirements

The following courses make up the Master of Arts in Strategic Communication program.

- Required Courses: 21 semester hours (s.h.)
- Elective Courses: 12 semester hours (s.h.)

Required Courses 21 s.h.

(s.h.: semester hours/credit hours)

Course #	Course Title	S.H.
MAPR 01547	Graduate Strategic Writing I	3
MAPR 01550	Introduction to Strategic Communication Research	3
MAPR 01551	Graduate Strategic Communication Overview	3
MAPR 01620	Seminar in Public Relations (2 semesters)	6
MAPR 01568	Graduate Strategic Visual Communication	3
MAPR 01553	Graduate Case Studies in Public Relations	3
MAPR 01561	Graduate Strategic Writing II	3

Elective Courses 12 s.h.

Approved modules and electives (depending on concentration). Please discuss with academic advisor.

Total Required Credits for the Program 33 s.h.

Foundation Courses

Eligible applicants must have successfully completed the following undergraduate foundation course at an accredited institution. During the admissions process, the Master of Arts in Strategic Communication academic advisor will determine foundation course equivalencies. If applicable, official notification of any unfinished foundation courses will be included in the applicant’s official admission decision letter from Rowan University.

FC-I. Publication Layout and Design (JRN 02317) (3 s.h.)

Students admitted without having completed this foundation course may complete it while enrolled in the Master of Arts Strategic Communication program. The foundation course must be taken before completing the program and does not count toward the 33 required semester hours for the master’s degree.

Graduation/Exit, Benchmark, and Thesis Requirements

Students write a research project on any aspect of public affairs, educational communication, or corporate communication to complete the program. A comprehensive oral/written exam is also required. (No Thesis)

Minimum Required Grades and Cumulative GPA

The MA in Strategic Communication is a Category 3 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Advisor Contact Information

Bokyung Kim

301 High Street, Room 322

856-256-4293

kimb@rowan.edu

Master of Arts in Writing (M.A.)

The Master of Arts in Writing program encourages students to explore the principles of craft and the theory and practices of writing through courses in fiction, creative nonfiction, writing for children and young adults, digital media, poetry, or other genres. Students may also develop their professional skills through courses in publishing and writing pedagogy. Of particular interest to those students who wish to teach on the college level is our Teaching Experience Program, which allows students to teach Rowan University college composition courses as paid adjunct instructors while completing the Master of Arts in Writing. In the capstone courses, Seminar I and Seminar II, students develop a major project of their own design and in a genre of their own choosing, which may have a creative or scholarly focus.

In their junior year, Rowan University undergraduates majoring in Writing Arts can apply to the Combined Advanced Degree Program (informally known as the 4+1 program). This program will allow students to earn both the Bachelor of Arts and Master of Arts degrees in five years total. Please see the program coordinator for additional information about the Teaching Experience Program and the Combined Advanced Degree Program.

Program Requirements**Required Courses**

12 s.h.

(s.h.: semester hours/credit hours)

Course #	Course Title	S.H.
MAWR 01554	Core I: Theories and Techniques for Writers	3
MAWR 01559	Core II: Research Methods for Writers	3
MAWR 01561*	Seminar I	3
MAWR 01571*	Seminar II	3

*In the Seminar I and II sequence, students complete their Master's Project.

Elective Courses

18 s.h.

- Along with the required courses, four courses (12 s.h.) must have the subject designation MAWR.
- Two graduate-level courses may have a subject designation other than MAWR. Please discuss with Academic Advisor.

Total Required Credits for the Program

30 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark, and Thesis Requirements

Master's Project, completed as a course requirement in Seminars I and II

Minimum Required Grades and Cumulative GPA

The MA in Writing is a Category 3 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Advisor Contact Information

Ron Block

Department of Writing Arts

Room 511, Victoria Hall

856.256.4858

blockr@rowan.edu

Certificates of Graduate Study (Non-degree)**Certificate of Graduate Study in Creative Writing (COGS)**

By participating in a curriculum that combines the writing workshop model with the study of craft through a close reading of published texts, students will engage in the advanced practices of the genres of their choice. They will learn to engage in a process of composition that, when combined with the development of a critical vocabulary, allows students to give, receive, and use criticism in their revisions. As they discover and develop their individual style, voice, and literary vision, they will acquire the discipline and the creative and organizational strategies necessary to prepare for and advance them toward publication.

Program Requirements**Required Courses**

9 s.h.

(s.h.: semester hours/credit hours)

Choose three (3) from the following options.

Course #	Course Title	S.H.
MAWR 02505	Poetry Workshop	3
MAWR 02515	Creative Nonfiction Workshop	3
MAWR 02520	Writing the Novel	3
MAWR 02521	Writing the Nonfiction Book	3
MAWR 02522	Nonfiction Workshop	3
MAWR 02523	Writing the Memoir	3

Total Required Credits for the Program

9 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark, and Thesis Requirements

None

Minimum Required Grades and Cumulative GPA

The COGS in Creative Writing is a Category 3 program.

*For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.***Program Coordinator/Advisor Contact Information****Ron Block****Department of Writing Arts****Room 511, Victoria Hall****856.256.4858****blockr@rowan.edu****Certificate of Graduate Study in Editing & Publishing for Writers (COGS)**

Due to recent changes in the publishing industry (corporate mergers, ever-advancing publishing technologies, radical alterations in traditional book distribution and bookselling) writers are now compelled to be excellent editors and marketers of their own work. Utilizing a curriculum that combines advanced editing and revision of works of the student's own choice (nonfiction book, YA novel, poetry, articles and essays), along with the hands-on opportunities in classes, students will acquire a necessary understanding of contemporary editing and publishing procedures in a variety of print and digital environments, including periodicals, and digital and book publishing, as well as the discipline and organizational strategies necessary to prepare and submit a variety of types of work for publication.

Program Requirements**Required Courses**

9 s.h.

(s.h.: semester hours/credit hours)

Choose three (3) from the following options.

Course #	Course Title	S.H.
MAWR 01557	Writing the Freelance Features	3
MAWR 01566	Editing the Literary Journal	3
MAWR 01622	Publishing for Creative Writers	3
MAWR 01623	Writing Stories for Children & Young Adults	3
MAWR 02521	Writing the Nonfiction Book	3

Total Required Credits for the Program

9 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark, and Thesis Requirements

None

Minimum Required Grades and Cumulative GPA

The COGS in Editing & Publishing for Writers is a Category 3 program.

*For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.***Program Coordinator/Advisor Contact Information****Ron Block****Department of Writing Arts****Room 511, Victoria Hall****856.256.4858****blockr@rowan.edu****Certificate of Graduate Study in Integrated Marketing Communication & New Media (COGS)**

The Certificate of Graduate Study (COGS) in Integrated Marketing Communication and New Media provides insight into how company efforts to offer greater accountability from their marketing efforts have intensified, and how new media have proliferated.

This has intensified the search for new ways to get more accountability from marketing communication efforts. The result has been a growing understanding on the part of corporate management that (1) the efficiencies of mass media advertising are not what they used to be; (2) consumers are more sophisticated, cynical, and distrusting than ever before; (3) tremendous gaps exist between what companies say in their advertising and what they actually do; and (4) in the long run, nourishing good customer relationships is far more important than making simple exchanges.

There is now a growing movement toward integrating all the messages created by various communication agencies and sent out by various departments within the company to achieve consistency. This process is known as Integrated Marketing Communication.

Students can use the coursework from this Certificate of Graduate Study and apply it toward the Master of Arts in Strategic Communication program.

Program Requirements**Required Courses**

9 s.h.

(s.h.: semester hours/credit hours)

Course #	Course Title	S.H.
MAPR 01565	IMC and New Media Overview	3
MAPR 01550	Introduction to Graduate Strategic Communication Research	3
MAPR 06515	Online Public Relations	3

Total Required Credits for the Program

9 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark, and Thesis Requirements

None

Minimum Required Grades and Cumulative GPA

The Certificate of Graduate Study in Integrated Marketing Communication & New Media is a Category 3 program.

*For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.***Program Coordinator/Advisor Contact Information****Bokyung Kim****301 High Street****856.256.4293****kimb@rowan.edu**

Certificate of Graduate Study in School Public Relations (COGS)

The School Public Relations Certificate of Graduate Study provides students with a broad overview of School Public Relations and a focus on several essential components of the field. By investigating and assessing real world case studies, students will develop an understanding of the need for formal planning and evaluation of an educational organization's public relations initiatives.

Students can use the coursework from this Certificate of Graduate Study and apply it toward the Master of Arts in Strategic Communication program.

Program Requirements

The School Public Relations Certificate of Graduate Study is a part-time program offered in an accelerated online format. It requires the completion of 9 graduate semester hours (3 courses) which are possible to complete in only 2 to 3 consecutive semesters. The courses that make up the School Public Relations Certificate of Graduate Study may also be applied towards Rowan University's Master of Arts in Strategic Communication program or the IMC & New Media Certificate program.

Coursework

The following courses make up the School Public Relations Certificate of Graduate Study program. Each course is scheduled in 8 week modules with each week of work starting every Tuesday at 8:00 a.m. and ending every Monday at midnight (Eastern Standard Time).

Required Courses

9 s.h.

(s.b.: semester hours/credit hours)

<u>Course #</u>	<u>Course Title</u>	<u>S.H.</u>
MAPR 98503	School Public Relations	3
MAPR 01547	Graduate Strategic Writing I	3
MAPR 01550	Introduction to Graduate Strategic Communication Research	3

Total Required Credits for the Program

9 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark, and Thesis Requirements

None

Minimum Required Grades and Cumulative GPA

The Certificate of Graduate Study in School Public Relations is a Category 3 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Advisor Contact Information

Bokyung Kim
301 High Street
856.256.4293
kimb@rowan.edu

Certificate of Graduate Study in Writing, Composition & Rhetoric (COGS)

This 9-credit program for teachers and other writing professionals improves students' knowledge of contemporary theories, issues, and practices in writing and writing instruction. Students develop their writing abilities by analyzing their own writing and that of published writers. Courses emphasize composition theory, writing assessment, and the role of technology in writing.

Program Requirements

Required Courses

9 s.h.

(s.b.: semester hours/credit hours)

<u>Course #</u>	<u>Course Title</u>	<u>S.H.</u>
MAWR 01549	Issues in Composition Studies	3
MAWR 01555	Writing for Electronic Communities	3
MAWR 01556	Assessment of Writing	3

Total Required Credits for the Program

9 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark, and Thesis Requirements

None

Minimum Required Grades and Cumulative GPA

The Certificate of Graduate Study in Writing, Composition & Rhetoric is a Category 3 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Advisor Contact Information

Ron Block

Department of Writing Arts

Room 511, Victoria Hall

856.256.4858

blockr@rowan.edu

Certificate of Graduate Study in Writing & New Media (COGS)

The Certificate of Graduate Study in Writing & New Media will increase students' awareness of composing opportunities, theories, and practices that are emerging as a result of the ubiquity of new media technologies and online writing spaces. Students will learn how to effectively compose in and for a variety of online writing spaces using a variety of modes and genres. Students will also learn theories in areas that hold significant import for understanding the implications of new media communication technologies: information architecture, visual rhetoric, social media, computers and writing, and designing with web standards. These marketable skills will enhance students' current and future career opportunities.

Program Requirements

Required Courses

12 s.h.

(s.h.: semester hours/credit hours)

Course #	Course Title	S.H.
MAWR 01555	Writing for Electronic Communities	3
MAWR 01564	Information Architecture	3
MAWR 01620	Internet & Writing Studies	3
MAWR 01621	Visual Rhetoric & Multimodal Composition	3

Total Required Credits for the Program

12 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark, and Thesis Requirements

None

Minimum Required Grades and Cumulative GPA

The Certificate of Graduate Study in Writing & New Media is a Category 3 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Advisor Contact Information

Ron Block

Department of Writing Arts

Room 511, Victoria Hall

856.256.4858

blockr@rowan.edu

Undergraduate Degree-Completion Programs

Overview

The following programs lead to a Bachelor's degree. These programs are offered through the Division of Global Learning & Partnerships, but official course descriptions and more about the program as a whole are included in Rowan's Undergraduate Catalog: www.rowan.edu/catalogs.

Bachelor of Arts in Applied Professional Communication (B.A.)

The B.A. in Applied Professional Communication further extends opportunities for career preparation and interdisciplinary study. This new, multi-departmental major provides students with communication skills that support them in a range of professional settings with a focus on digital communication(s).

The B.A. in Applied Professional Communication is offered entirely on the Rowan College at Burlington County (RCBC) Mount Laurel campus. As a 3+1 program, it allows students to pursue a foundational curricular platform at a community college and complete their Rowan degree while remaining on the RCBC campus. This provides an affordable and accessible alternative path to a degree, attracting students of diverse economic, social and ethnic backgrounds.

Rowan University requires the completion of 120 semester hours of approved general education and major coursework in order to graduate with a bachelor's degree. The Bachelor of Arts in Applied Professional Communication is a full- or part-time program that provides students with 30 of the required semester hours when students transfer into Rowan University for the fourth year.

General Education

All students starting *before* Fall 2018 and transfer students must complete the University General Education Requirements as described on page 13.

Rowan Core

All first-time Freshmen starting in Fall 2018 or after must complete the University Rowan Core Requirements as described on page 15.

Required Applied Professional Communication Courses

30 s.h.

(s.h.: semester hours/credit hours)

<u>Course #</u>	<u>Course Title</u>	<u>S.H.</u>
WA 01322	Writing for the Workplace	3
or WA 01302	Introduction to Technical Writing	3
PR 05350	Strategic Communication Overview	3
ADV 04360	Integrated Marketing Communication	3
TBD	Professional Practices and Partnerships Practicum 1 (400-Level Course)	3
	Free Elective	3
RTF 03394	New Media Production	3
JRN 02319	Media Ethics	3
PR 99362	Public Opinion	3
CMS 04318	Leadership Communication	3
TBD	Professional Practices and Partnerships Practicum 2 (400-Level Course)	3

General Education and Elective Courses

90 s.h.

Total Required Credits for the Program

120 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark, and/or Thesis Requirements

None

Program Coordinator/Advisor Contact Information

Jennifer Tole

Victoria Hall

856.256.4345

tole@rowan.edu

Certificates of Undergraduate Study (Non-degree)**Certificate of Undergraduate Study in Professional Communication (CUGS)**

The Certificate of Undergraduate Study (CUGS) in Human Services Criminal Justice will introduce students to study theories and techniques of workplace and leadership communication. Using organizational and leadership communication theories, students will critically reflect on practices of workplace and leadership communication, while also learning to communicate complex information to lay audiences within various professional and technical genres, including reports, proposals, instructions, and educational materials. Towards this end, students will gain skills in audience analysis, business presentation, and interviewing strategies, organizational culture analysis, document design, style and editing, and research. Students will become more aware of theories and strategies of oral and written communication through close analysis of organizations and professional and technical exemplary texts.

The Professional Communication CUGS is a full-time or part-time program offered in a face-to-face format at our Rowan College at Burlington County campus. It requires the completion of 12 semester hours (4 courses).

Program Requirements**Required Courses**

12 s.h.

(s.h.: semester hours/credit hours)

Course #	Course Title	S.H.
Communication Courses		
6 s.h.		

Choose two (2) from the following options.

Course #	Course Title	S.H.
CMS 04220	Interpersonal Communication	3
CMS 04260	Organizational Communication Theory and Research	3
CMS 04208	Business and Professional Communication	3
CMS 04318	Leadership Communication	3

Writing Courses

6 s.h.

Choose two (2) from the following options.

Course #	Course Title	S.H.
WA 01322	Writing for the Workplace	3
WA 01302	Introduction to Technical Writing	3
WA 01326	Writing for Nonprofits	3
WA 01408	Writing as Managers	3

Total Required Credits for the Program

12 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark, and Thesis Requirements

None

Program Coordinator/Advisor Contact Information

Clara Popa
Victoria Hall
856.256.4348
popa@rowan.edu

College of Education

Gaëtane Jean-Marie
Dean
Herman D. James Hall
856.256.4750
jean-marie@rowan.edu

Cori Meredith Brown
Associate Dean for Faculty and Student Affairs
Herman D. James Hall
856.256.4754
browncm@rowan.edu

Lori Kroeger
Assistant Dean for Enrollment Management and Accreditation
Herman D. James Hall
856.256.4753
kroeger@rowan.edu

Stacey Leftwich
Executive Director of the Office of Educator Support and Partnerships
Herman D. James Hall
856.256.4797
leftwich@rowan.edu

Shelley Zion
Faculty Director of the Center for Access, Success, and Equity (CASE)
Herman D. James Hall
856.256.4742
zions@rowan.edu

Mission

To positively impact and develop local, regional, national, and global educational communities by:

- collaborating with partners in the field to promote learning and the mental and physical health of diverse learners in all settings
- integrating teaching, research, and service to advance knowledge in the field
- preparing and supporting professionals through the development of knowledge, skills, and dispositions with the ultimate goal of ensuring equitable educational opportunities for all learners.

Vision

The College of Education will be a leading force in preparing and supporting reflective practitioners who use education to transform our global society.

College of Education Conceptual Framework Pillars

The four pillars of the College of Education Conceptual Framework are an important foundation that informs who we are and what we truly value. Those pillars are:

1. content and pedagogical knowledge,
2. technology to facilitate teaching and learning,
3. diversity with a commitment to social justice, and
4. impact on student learning.

By building a foundation of content and pedagogical knowledge, using technology to facilitate teaching and learning, valuing diversity with a commitment to social justice, and impacting P-12 student or client learning, we inform our practices and provide a foundation upon which learning evolves.

Programs Offered

The College of Education offers the Bachelor of Arts in Education (Early Childhood, Elementary, Subject-Matter, and Health and Physical Education concentrations); the Bachelor of Arts in Inclusive Education; the Bachelor of Arts in Literacy Studies; and the Bachelor of Arts in Leadership and Social Innovation. The College of Education also offers non-degree teacher certification programs in Reading and Teacher of Students with Disabilities as well as numerous graduate programs. In addition, the Minor in Education is offered.

Accreditation

Rowan University's teacher education program, one of the largest and most comprehensive in New Jersey and in the nation, has been accredited by the National Council for Accreditation of Teacher Education (NCATE), now known as the Council for the Accreditation of Educator Preparation (CAEP), since 1956. In addition, College of Education programs have received national recognition from the following professional organizations:

- ACEI Association for Childhood Education International
- ACTFL American Council on the Teaching of Foreign Languages
- CEC Council for Exceptional Children
- ELCC Educational Leadership Constituent Council
- IRA International Reading Association
- NAEYC National Association for the Education of Young Children
- NASP National Association of School Psychologists
- NASPE National Association for Sport and Physical Education
- NCSS National Council for the Social Studies
- NCTE National Council of Teachers of English
- NCTM National Council of Teachers of Mathematics
- NSTA National Science Teachers Association
- TESOL Teachers of English to Speakers of Other Languages

In addition, the Master of Arts in Counseling in Educational Settings program is accredited by the Council for Accreditation of Counseling and Related Educational Programs (CACREP).

The New Jersey State Department of Education also approves Rowan's programs.

Admission, Retention and Eligibility for Teacher Certification

Admission to Rowan University does not guarantee admission as a teacher certification candidate. Students desiring admission as a teacher certification candidate must file an application. Admission to teaching certification has specific program requirements as outlined on Program Guides. Students are notified of their acceptance at the beginning of their junior year. The same process applies to two-year transfer students but is generally compressed to take place in the fall semester of the junior year. This outline describes the minimum college requirements. Students should check with their advisors and certifying department for specific expectations, program requirements, and standards.

Departments

The College of Education is composed of four academic departments. They include:

- Educational Services and Leadership
- Interdisciplinary and Inclusive Education
- Language, Literacy, and Sociocultural Education
- Science, Technology, Engineering, Art, Mathematics, and Movement (STEAM₂)

Support Services

In addition to the academic departments, the College of Education houses several offices that support the academic program including:

The Office of Clinical Experiences

The Office of Clinical Experiences coordinates all field placements, including school or clinical settings required for graduation and state certification applications. The mission of the College of Education is to positively impact and develop local, regional, national and global educational communities by collaborating with partners in the field to prompt learning and the mental and physical health of diverse learners in all settings. The Office of Clinical Experiences is located in the College of Education Advising Center in Herman D. James Hall, 2nd floor. Hours are 8:30 a.m. to 4:30 p.m., Monday through Friday.

The College of Education Advising Center (CEAC)

The College of Education Advising Center provides students with the necessary support and guidance as they pursue their educational goals and courses through the College of Education. It is a resource that offers program advisement for current and prospective students. The center is focused on providing accurate and timely information to assist students who are working toward a degree and/or licensure in a number of professional education careers.

Office of Educator Support and Partnerships (OESP)

The mission of the Office of Educator Support and Partnerships is to provide support to programs and initiatives related to educator preparation. This office supports both initial and advanced programs as well as P-12 partnerships. The Office of Educator Support and Partnerships will provide leadership in the following areas:

- Office of Clinical Experiences
- Professional Development School network

- edTPA
- Praxis Lab
- Teacher pipeline programs

The John J. Schaub Instructional Technology Center

The John J. Schaub Instructional Technology Center consists of a Computer Laboratory and an Instructional Materials Center (IMC). The Instructional Technology Center provides facilities, technology, materials and training in the four areas of Instructional Technology: print technology, audio-visual technology, computer technology, and integrated technology. It is the primary instructional technology resource and training facility for students and faculty in the College of Education. The IMC houses PreK-12 teaching kits and other materials related to the educational programs offered by the College of Education. It is a comfortable study space that serves as a teachers' library and workroom for students in the College of Education.

The Center for Access, Success, and Equity (CASE)

The Center for Access, Success, and Equity was created to address three overarching topics in education today: access, success, and equity for students in P-20 institutions. The overall goal is to “turn research into practice” and have a direct impact on the educational outcomes of students by completing extensive research, offering professional services, and engaging in policy creation and reform. We view all three of these actions as overlapping and intertwined with one another, with one component complementing, or leading into, the next. It is our hope to develop a three-prong system that incorporates all of these highly important educational factors into our daily operations.

Rowan University Early Childhood Demonstration Center

A high quality early childhood program that focuses on developmentally appropriate practices and project approaches. The program accepts children aged 2.5-6 from Rowan and outside communities.

Programs Offered

All programs offered are listed below in order of degree/program type and then in alphabetical order by program name. Details about each program are then listed within the catalog in the same order. For the most up-to-date information regarding mode of delivery options for your program of interest, please visit www.rowanu.com/programs.

DOCTORAL DEGREE/EDUCATIONAL SPECIALIST DEGREE

<u>Program Name</u>	<u>Format/Location</u>	<u>Program/Major Codes</u>	<u>Avail FT/PT</u>	<u>Total Credits</u>
Doctor of Education in Educational Leadership	Face-to-Face/Glassboro or Camden campus (track courses 100% online)	EDD-EDLDRSHP/D928	Part-time	60
	Hybrid: 60% Online & 40% Face-to-Face at NJPSA (New Jersey Principals and Supervisor's Association) in Jamesburg, NJ (track courses 100% online)		Part-time	60
	Online with 2 residencies on the Glassboro campus		Part-time	60
Doctor of Philosophy in Education	Face-to-Face/Glassboro campus	PHD-EDU/D800	Full-time	72
Educational Specialist in School Psychology: School Psychologist Certification†	Face-to-Face/Glassboro campus	EDS-SCHPSYCH/ES03	Both	39

MASTER'S DEGREES

<u>Program Name</u>	<u>Format/Location</u>	<u>Program/Major Codes</u>	<u>Avail FT/PT</u>	<u>Total Credits</u>
Master of Arts in Counseling in Educational Settings†	Face-to-Face/Glassboro campus (fall entry) or Face-to-Face/Camden campus (spring entry)	MA-COUNEDSET/G825	Both	48
Master of Arts in Educational Technology	Online	MA-EDTECHNOL/G842	Full-time	33
Master of Arts in Higher Education	Face-to-Face/Glassboro campus	MA-HIGHED/G807	Both	36

College of Education

Master of Arts in Reading Education Concentration: Reading Practitioner	Online	MA-READED/G830/C850	Part-time	30
Master of Arts in Reading Education Concentration: Reading Specialist†	Hybrid	MA-READED/G830/C851	Part-time	34
Master of Arts in STEM Education†	Hybrid/Glassboro campus	MA-STEM/G845	Full-time	33
Master of Arts in School Administration†	Hybrid: 100% online coursework with a total of 3 Face-to-Face meetings during the program	MA-SCHADMIN/G827	Part-time	36
	Face-to-Face/Glassboro campus		Part-time	36
Master of Arts in School Psychology	Face-to-Face/Glassboro campus	MA-SCHPSYCH/G822	Both	33
Master of Arts in Special Education†	Face-to-Face/Glassboro campus	MA-SPECED/G809	Both	30-36 depending upon track selected
	Online		Part-time	30-41 depending upon track selected
Master of Education in Teacher Leadership	100% Online or Hybrid (depending upon content COGS selected)	MED-TCHLD/G815	Part-time	30-40 depending upon content COGS selected
Master of Science in Teaching: Subject Matter Education†	Hybrid/Glassboro campus	MST-SEED/G802	Full-time	33
Master of Science in Teaching: Subject Matter Education–Theatre Education†	Hybrid/Glassboro campus	MST-THRED/G008	Full-time	33
Master of Arts in Urban Education and Community Studies	Face-to-Face/Camden campus	MA-URBANEDCS/G843	Part-time	36

CERTIFICATES OF ADVANCED GRADUATE STUDY (NON-DEGREE)

<u>Program Name</u>	<u>Format/Location</u>	<u>Program/Major Codes</u>	<u>Avail FT/PT</u>	<u>Total Credits</u>
Certificate of Advanced Graduate Study in Chief School Administrator Certificate***	Online	CAG-CHSCADCT/G634	Part-time	33
Certificate of Advanced Graduate Study in Community College Leadership***	Face-to-Face/Glassboro campus	CAG-CCLEAD/G632	Part-time	13
Certificate of Advanced Graduate Study in Educational Leadership***	Online	CAG-EDLD/G633	Part-time	12
Certificate of Advanced Graduate Study in Principal Preparation**†	100% Online	CAG-PRINCIPL/G628	Part-time	36
Certificate of Advanced Graduate Study in Student Assistance Coordination	Face-to-Face/Glassboro campus	GCT-STUACP/G638	Part-time	24

CERTIFICATES OF GRADUATE STUDY (NON-DEGREE)

<u>Program Name</u>	<u>Format/Location</u>	<u>Program/Major Codes</u>	<u>Avail FT/PT</u>	<u>Total Credits</u>
Certificate of Graduate Study in Autism Spectrum Disorders	100% Online	COG-AUTDIS/G108	Part-time	15
Certificate of Graduate Study in Early Childhood Coaching and Technical Assistance		COG-ECHLDCTA/G143	Part-time	15
Certificate of Graduate Study in Early Childhood Education		COG-EECE/G804	Part-time	15
Certificate of Graduate Study in Early Childhood Special Education		COG-ECSPED/G819	Part-time	15
Certificate of Graduate Study in Educational Technology*	100% Online	COG-EDTECH/G124	Part-time	15
Certificate of Graduate Study in English as a Second Language (ESL)*†	100% Online	COG-ESL/G604	Part-time	16-21 depending on teaching certification status
Certificate of Graduate Study in Enhancing Instructional Practices in Health Professions Education	100% Online	COG-ENHPRAC/G103	Part-time	12
Certificate of Graduate Study in Interprofessional Health Organizations Leadership		COG-IHOL/G141	Part-time	12
Certificate of Graduate Study in Learning Disabilities	100% Online or Face-to-Face/Glassboro	COG-LRNDIS/G138	Part-time	15
Certificate of Graduate Study in Reading	100% Online	COG-READ/G630	Part-time	15
Certificate of Graduate Study in Reading/Writing Literacy	Hybrid/Glassboro campus	COG-RWLITRCY/G126	Part-time	15
Certificate of Graduate Study in Special Education*	100% Online	COG-SPED/G127	Part-time	15
Certificate of Graduate Study in Teaching & Learning*	100% Online	COG-TCHLRN/G109	Part-time	18

CERTIFICATIONS, ENDORSEMENTS & RELATED POST-BACCALAUREATE PROGRAMS (NON-DEGREE)

<u>Program Name</u>	<u>Format/Location</u>	<u>Program/Major Codes</u>	<u>Avail FT/PT</u>	<u>Total Credits</u>
Learning Disabilities Teacher-Consultant (LDTCC) Certification†	Face-to-Face (with some online/accelerated course options)/Glassboro campus	GCT-LRNDIS/G618	Part-time	33
Supervisor Certification **†	100% Online	GCT-SPRVS/R/G629	Part-time	12
Graduate Endorsement: Bilingual/Bicultural Education†	100% Online	GE-BILINGCUL/G605	Part-time	12
Graduate Endorsement for Teacher of Students with Disabilities†	Face-to-Face/Glassboro campus	GE-TCHSTUDIS/G609	Part-time	21 – Program is intended for those who already have teacher certification.
	100% Online		Part-time	21 – Program is intended for those who already have teacher certification.

College of Education

Post-Baccalaureate: Teacher of Reading †	Face-to-Face/Glassboro campus	CRT-READ/9830	Part-time	30
Post-Baccalaureate: Teacher of Students with Disabilities †	Face-to-Face/Glassboro campus	CRT-TCHSTDIS/9811	Full-time/Part-time	Program is 27 credits in addition to a 3-credit Literacy Pedagogy I course
	100% Online		Part-time	Program is 27 credits in addition to a 3-credit Literacy Pedagogy I course
Post-Baccalaureate: School Nursing Certification †	Hybrid/Glassboro campus	CRT-SCHNURSG/9221	Part-time	18
Undergraduate Endorsement: Driver Education †	Hybrid	UE-DRIVERED/9610	Part-time	3

UNDERGRADUATE DEGREE COMPLETION PROGRAMS

(These programs lead to Bachelor's degrees. They are offered through the Division of Global Learning & Partnerships, but official course descriptions and more about the program as a whole are included in Rowan's Undergraduate Catalog: www.rowan.edu/catalogs.)

<u>Program Name</u>	<u>Format/location</u>	<u>Program/Major Codes</u>	<u>Avail FT/PT</u>	<u>Total credits</u>
Bachelor of Arts in Inclusive Education †	Face-to-Face	BA-INCLUDED & BA-INCLUSELM/0811 & 0812	Full-Time	120

*Coursework in this program counts as approximately one-half of the coursework required for the Master of Education in Teacher Leadership.

**Coursework in this program counts toward the coursework required for the Master of Arts in School Administration.

***Coursework in this program counts toward the coursework required for the Doctor of Education in Educational Leadership program.

† The New Jersey Department of Education (NJ DOE), not Rowan University, grants certifications based on requirements set by the state. While coursework for specific programs meets the academic requirements for NJ DOE certification, it is the student's responsibility to ensure that all other certification requirements are met, including, but not limited to, appropriate type and level of license and years of experience. NJ DOE certification requirements are subject to change. Certification applications are evaluated, by NJ DOE, based on the most current state requirements. For current NJ DOE licensure information, go to www.state.nj.us/education/educators/license/.

Admissions

For the most up-to-date information regarding admission requirements, entry points, and application deadlines, please visit www.rowanu.com/programs. Click on your program of interest to be connected to program and admission details.

Academic Program Policy Categories

For the purposes of both the Minimum Satisfactory Academic Progress policy and the Minimum Graduation Requirements policy, post-baccalaureate/graduate academic programs administered by Rowan Global at Rowan University fall into one of three major categories which are identified by their grade requirements as outlined below. (See individual program descriptions for academic categories.)

Category 1: To maintain Minimum Satisfactory Academic Progress in and to successfully graduate from a Category 1 program students must:

- Earn no more than two total "B-" grades
- Earn no grades lower than a "B-"
- Earn an official cumulative GPA (according to matriculation level) of at least 3.000 on Rowan's 4.000 scale

Category 2: To maintain Minimum Satisfactory Academic Progress in and to successfully graduate from a Category 2 program students must:

- Earn no grades lower than a "B-"
- Earn an official cumulative GPA (according to matriculation level) of at least 3.000 on Rowan's 4.000 scale

Category 3: To maintain Minimum Satisfactory Academic Progress in and to successfully graduate from a Category 3 program students must:

- Earn no more than two total C grades of any combination of “C+” or “C.” (C- grades are not acceptable.)
- Earn no grades lower than a “C”
- Earn an official cumulative GPA (according to matriculation level) of at least 3.000 on Rowan’s 4.000 scale

Policy Prior to Fall 2013 Matriculation

The academic review and minimum graduation requirements review policies will be applied to Rowan graduate and post-baccalaureate students who matriculate beginning Fall 2013 or later; however, current students (those matriculated and active before Fall 2013) will be grandfathered under the prior policy/practice, whose grade and GPA requirements are the same as Academic Review Category 3.

Doctor of Education in Educational Leadership (Ed.D.)

The Educational Leadership doctoral program provides opportunities for students to acquire and construct knowledge that enhances their ability to transform educational institutions to meet the challenging needs of an ever-changing society. This is achieved by educating students to become reflective practitioners who comprehend and evaluate professional literature and research and who understand leadership and change. In addition, students learn how to translate the research and theory into practice.

Benchmarks & Dissertation

The Doctor of Education in Educational Leadership degree at Rowan University requires the completion of 60 graduate semester hours (s.h.) made up of 16 courses (48 s.h.) and 12 s.h. of dissertation. The program includes three distinct benchmarks. Benchmark I takes place after the completion of four of the five core courses and consists of a written assessment, followed by an interview with a committee of faculty. Benchmark II consists of a presentation of dissertation proposal to a committee of faculty. Benchmark III is the dissertation symposium.

Track Options

The doctoral program offers 4 tracks. Each track includes 4 specialized courses. All of the track courses are 6 weeks long and offered 100% online, regardless of the overall delivery format chosen. The 4 track options are:

1. **Higher Education:** This track is for educators who are looking to gain advanced knowledge in the field of higher education, with a special focus on administration and leadership at the post-secondary/four-year college level.
2. **P-12:** This track is for those educators who are looking to gain advanced knowledge in the field, with a special focus on developing the leadership skills and dispositions necessary to enact lasting and meaningful change within the preschool through secondary school levels.
3. **Nurse Educator:** This track is for those educators who are looking to gain advanced knowledge in the field, with a special focus on educating nurses.
4. **Community College Leadership Initiative (CCLI)** This track is typically offered on a biennial basis. This track is for those educators who are looking to gain advanced knowledge in the field, with a special focus on community college.

Residency Requirement

The Doctor of Education in Educational Leadership program is available in a number of different delivery modes, including online. Those who choose the online delivery format will be required to complete 2 residencies as outlined below:

- **Residency I:** Students will spend three days/two nights (Friday to Sunday) on the campus of Rowan University becoming familiar with campus resources, University policies and procedures, the mission and conceptual framework of the College, and program expectations of the Educational Leadership Department. This orientation-based residency is a wonderful introduction to the doctoral experience that serves to enhance the online learning environment by providing a face-to-face opportunity to engage with cohort members and Educational Leadership faculty and staff. Students will attend workshops designed to acquaint them with leadership development, action research and change strategies, reflective practice, social justice issues, and the development and implementation of professional learning communities. On-campus housing is available.
- One day at Rowan’s Glassboro campus for the written portion of the Benchmark I exam. The exam is given twice per year. Students choose when they wish to take it after the completion of foundational first-year coursework.
- **Residency II:** A weekend stay at the conclusion of year two on Rowan’s Glassboro campus. This residency will focus on preparing students for dissertation work and the dissertation process.

Program Requirements

Required Courses for All Tracks

36 s.h.

(s.h.: semester hours)

Course #	Course Title	S.H.
EDST 24503	Quantitative Analysis in Educational Research	3
EDST 24721	Action Research in Educational Leadership	3
EDST 24724	Issues in Qualitative Analysis in Educational Leadership	3

EDST 24725	Mixed Methods Research in Educational Leadership	3
EDAM 27704	Changing Organizations	3
EDAM 27719	Dissertation Seminar I	3
EDAM 27720	Dissertation Seminar II	3
EDAM 27733	The Policy Environment	3
EDAM 27750	Applied Ethics in Educational Leadership	3
EDAM 27752	Advanced Leadership	3
EDSU 28706	Diversity in Educational Leadership	3
EDSU 28715	Leadership Theory	3

Required Track Courses 12 s.h.

Doctor of Education in Educational Leadership students must complete the four courses in their selected track. (Track is selected during the application process.)

Course #	Course Title	S.H.
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Higher Education Track Courses

EDAM 27741	Current Issues in Higher Education	3
EDAM 27746	Higher Education Governance	3
EDAM 27783	Student Development & Adult Learning Theory	3
EDAM 27505	Selected Topics: Nature & Function in Higher Education	3

P-12 Track Courses

EDAM 27714	Planning & Negotiating	3
EDAM 27735	Promoting Effective Learning	3
EDAM 27749	Issues in School Governance	3
EDAM 27790	Instructional Leadership & The Curriculum	3

Nurse Educator Track Courses

EDAM 27783	Student Development & Adult Learning Theory	3
SNUR 92751	Instructional Design & Curriculum Development in Nursing Education	3
SNUR 92752	Nursing Program Evaluation & Information Resources	3
SNUR 92753	Practicum in Nursing	3

Community College Track Courses

EDAM 27780	Community College Leadership & Governance	3
EDAM 27781	Community College Budgeting & Finance	3
EDAM 27782	The American Community College	3
EDAM 27783	Student Development & Adult Learning Theory	3

Required Dissertation Research Course

Doctor of Education in Educational Leadership students must complete a minimum of 12 semester hours of Dissertation Research.

Course #	Course Title	S.H.
EDST 24795	Dissertation Research	12

Note about Dissertation Research: In order to maintain matriculation in the program, students must register for at least 1 semester hour of EDST 24795 (Dissertation Research) per term until their dissertation is complete and approved and at least 12 Dissertation Research semester hours total have been completed.

Total Required Semester Hours for the Program 60 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark, and/or Thesis Requirements

- Students must successfully complete and defend dissertation.

Benchmarks: *Successful completion of all benchmarks is required for continuation in and graduation from the program. Details regarding benchmarks' timing and assessments will be shared with the student throughout the program by the academic advisor.*

Benchmark I:

- **Timing:** Occurs after the completion of the first four courses in the program (Phase I)
- **Requirements:** Benchmark consists of two parts: A timed, written examination, followed by an interview with a committee of faculty.
- **Options:** If the student does not successfully pass the benchmark on the first try, then the student is invited to re-take the exam. Student will not be permitted to continue coursework during this time. If unsuccessful or the student chooses not to attempt the exam when offered a second time, the student will be dismissed from the program.

Benchmark II:

- **Timing:** Occurs after the completion of the dissertation proposal (Phase II)
- **Requirements:** Student may present his or her dissertation proposal at a time mutually agreed upon by the student and his or her dissertation committee. The dissertation proposal must be approved before moving onto the completion of the dissertation project.
- **Options:** If the student does not successfully pass the benchmark, meaning an approved dissertation proposal is not obtained, then the student is able to revise and take again while continuing dissertation coursework.
- **Benchmark III:**
- **Timing:** Occurs after the completion of 60 s.h. and completion of dissertation (Phase III)
- **Requirements:** Student must successfully complete and defend a dissertation at a final symposium.
- **Options:** If the student does not successfully pass the benchmark, then the student may resubmit and defend the dissertation. If still unsuccessful, student will not be approved for graduation from the program.

Minimum Required Grades and Cumulative GPA

The Ed.D. in Educational Leadership is a Category I program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Advisor Contact Information

Mike Greenup

Herman D. James Hall

856.256.4500 ext. 53637

greenup@rowan.edu

Doctor of Philosophy in Education (Ph.D.)

The Doctor of Philosophy in Education is a multi-disciplinary research-focused degree anchored in the educational complexities of access, success, and equity that is designed to prepare candidates globally to assume roles as faculty and researchers in one of four concentrations: Counselor Education, Literacy Education, Higher and Postsecondary Education, and Special Education. The unique underpinning of this program is the intersection of two primary research foci: (1) a commitment to redressing systemic and persistent barriers to quality education and (2) a dedication to using rigorous empirical research with area schools, districts, colleges, and other educational partners to improve equity in educational outcomes. The Doctor of Philosophy offers its candidates opportunities to engage in research, college level teaching, and clinical experiences that respond to the regions and the nation's persistent challenges with educational access and equity in traditionally underserved communities.

The Doctor of Philosophy at Rowan University requires the completion of 72 graduate semester hours (s.h.) made up of 21 s.h. of core courses, 15 s.h. of research courses, 15 s.h. of concentration specific courses, and 21 s.h. of dissertation.

Concentrations

The doctoral program offers four (4) concentrations:

1. **Counselor Education:** The Counselor Education concentration is designed specifically for those who wish to pursue careers as counselor educators at the university level, or as supervisors in schools or clinical settings. The program is committed to promoting the counseling profession and evidenced-based practices and initiatives through advanced curricular experiences that address systemic and persistent barriers for P-20 students.
2. **Higher and Postsecondary Education:** The Higher and Postsecondary Education concentration of the Ph.D. in Education prepares students to conduct research on higher education organizations, students, and policy. Our graduates will pursue careers as academic faculty, researchers, senior college and university administrators, and policy analysts. Our curriculum provides a strong theoretical foundation in organizational theory, public policy, and issues of social justice in postsecondary institutions.
3. **Literacy Education:** The Language and Literacy Education Ph.D. concentration is designed to prepare individuals for roles in research, policy, and teaching in higher education. The courses examine influential theories and research that address the developmental, cognitive, motivational, multimodal, literary, linguistic, sociocultural and sociopolitical foundations of language and literacy. The program is strongly framed by a critical stance that emphasizes the transformative potential of language and literacy. Candidates for the literacy education doctorate conduct research examining major issues around the interaction of theory, research, and practice in their role in promoting access, equity and success across a range of educational contexts.
4. **Special Education:** Students in the Special Education concentration examine critical issues in the field of special education and disability studies in education (DSE). The program encourages progressive thinking about traditional segregated special education practices, and changing educational structures to be fully inclusive for all students and families. At Rowan University, students and faculty engage in progressive research that promotes the development of inclusive schools and educational policy.

Program Requirements**Required Courses for All Concentrations**

21 s.h.

(s.h.: semester hours)

<u>Course #</u>	<u>Course Title</u>	<u>S.H.</u>
CASE 90800	Current Issues and Research in Access, Success, and Equity in Education	3
CASE 90801	Research Seminar in Access, Success, and Equity	3(*6)
CASE 90802	Internship in the Academic Profession, Professoriate, and Promoting Student Success	3)
CASE 90803	Equity, Success, and Access Educational Research	3

*Students will enroll in CASE 90801 twice for a total of 6 s.h.

Required Research Courses for all Concentrations

15 s.h.

<u>Course #</u>	<u>Course Title</u>	<u>S.H.</u>
CASE 90718	Research Literature Analysis & Writing	3
CASE 90810	Quantitative Research Methods in Education	3
CASE 90811	Multivariate Research Methods in Education	3
CASE 90812	Qualitative Research Methods in Education	3
CASE 90814	Advanced Qualitative Research Methods in Education	3

Concentration Courses

15 s.h.

<u>Course #</u>	<u>Course Title</u>	<u>S.H.</u>
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Counselor Education Concentration Courses

CASE 90820	Advocacy, Leadership, and Professional Issues in Counselor Education	3
CASE 90821	Advanced Practicum in Counseling for Equitable Career and College Readiness	3
CASE 90822	Advanced Theories of Individual and Group Counseling for Academic, Social/Emotional, and Career Development	3
CASE 90823	Supervision in Counselor Education	3
CASE 90824	Advanced Theories in Family and Systems Counseling, Consultation, and Community Engagement for Educational Access	3
CASE 90825	Practicum in Counseling Supervision	3
CASE 90826	Advanced Assessment and Program Evaluation Procedures in Counseling for Access, Equity, and Success	3

Higher and Postsecondary Education Concentration Courses

CASE 90830	Foundations of Student Access, Retention, & Equitable Outcomes in Postsecondary Education	3
CASE 90831	Organizational Analysis and Administration of Postsecondary Education	3
CASE 90832	International and Comparative Higher Education	3
CASE 90833	Public Policy and Analysis in Postsecondary Education	3
CASE 90834	Student Learning & Development: Impact of Postsecondary Education	3
CASE 90835	Theoretical and Conceptual Frameworks in Higher Education	3
CASE 90836	Assessment and Evaluation in Postsecondary Education	3

Language and Literacy Concentration Courses

CASE 90840	Theoretical Perspectives in the Study of Literacy	3
CASE 90841	Transliteracy and Translingualism	3
CASE 90842	Multicultural and Multilingual Issues in Literacy Education	3
CASE 90843	Literacy as Practice in and Outside of School	3
CASE 90844	First and Second Language Acquisition	3
CASE 90845	Children's Literature and Literacy Theory	3
CASE 90846	Sociolinguistics and Discourse Analysis	3

Special Education Concentration Courses

CASE 90850	Access, Success, and Equity in Special Education	3
CASE 90851	Research to Practice in Special Education	3
CASE 90852	Program Evaluation and Planning in Special Education	3
CASE 90853	Leadership, Policy, and Ethics in Special Education	3
CASE 90854	Personnel Preparation and Effective Teaching in Special Education	3
CASE 90855	Evidence Based Practices in Special Education	3
CASE 90856	Current Issues in Special Education	3

CASE 90859 Special Topics in Special Education 3

Required Dissertation Research Course

Ph.D. students must complete a minimum of 21 semester hours of Dissertation Research.

Course #	Course Title	S.H.
CASE 90890	Dissertation Research	21

Total Required Semester Hours for the Program 72 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark, and/or Thesis Requirements

- Students must successfully complete and defend a dissertation.

Benchmarks: *Successful completion of all benchmarks is required for continuation in and graduation from the program. Details regarding benchmarks' timing and assessments will be shared with the student throughout the program by the Academic Advisor.*

Benchmark I:

- *Timing:* Successful completion of Year 1 - Annual Portfolio Review.
- *Requirements:* Students will prepare a portfolio that addresses reflections on and significant milestones regarding five prongs: 1. Content Expertise; 2. Conceptual/Theoretical Frameworks; 3. Research; 4. Teaching; and 5. Professional Service and Conduct. Students should also prepare a portfolio that provides substantiating evidence for each prong.

Benchmark II:

- *Timing:* Taken in year 3 of the program.
- *Requirements:* All doctoral candidates are required to pass a comprehensive examination prior to dissertation. The exam assesses candidates' knowledge of research methodology and substantive theoretical and empirical issues, and serves as assessment of competencies that are relevant to the development of the dissertation.

Benchmark III:

- *Timing:* Occurs after the completion of all 51 prescribed semester hours and successful completion of the Ph.D. comprehensive examination.
- *Requirements:* Student must successfully complete the Ph.D. Dissertation Proposal.

Benchmark IV:

- *Timing:* Occurs after the completion of a minimum of 21 s.h. of required dissertation research credits and successful completion of the Ph.D. Dissertation Proposal.
- *Requirements:* Student must successfully complete the Ph.D. Final Dissertation Defense.

Minimum Required Grades and Cumulative GPA

The Ph.D. in Education is a Category 1 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Advisor Contact Information

Maria Lanza-Gladney

Herman D. James Hall

856.256.4796

lanza-gladney@rowan.edu

Educational Specialist in School Psychology - School Psychologist Certification (Ed.S.)

The Educational Specialist is an advanced degree that enables the candidate to develop practitioner expertise in psychological, educational, professional and related areas. Candidates hone skills in assessment, consultation, counseling and intervention to prepare to work with children and adolescents, parents, guardians, teacher and other educational professionals in a school setting. To earn the Educational Specialist degree, a candidate must complete all courses, a school-based 300 hour practicum, and a school-based 1200-hour externship/internship.

Upon completion of the Educational Specialist degree, candidates are eligible for New Jersey Department of Education certification as a school psychologist†. Rowan University Educational Specialist graduates may also apply to become a Nationally Certified School Psychologist (NCSP), Rowan University's School Psychology program is an approved program by the National Association of School Psychology (NASP).

Program Requirements**Required Courses**

39 s.h.

(s.h.: semester hours/credit hours)

Course #	Course Title	S.H.
CURR 29580	Fundamentals of Curriculum Development	3
EDSU 28546	Educational Organization and Leadership	3
SPSY 06627	Cognitive Assessment & Data-Based Decision Making	3
SPSY 06628	Psychoeducational Assessment & Data-Based Decision Making	3
SPSY 06629	Behavioral-Social Assessment & Data-Based Decision Making	3
SPSY 06632	School Psychology: Consultation, Collaboration & Intervention	3
SPSY 08545	Home/School/Community Collaboration	3
SPSY 08547	Professional School Psychology	3
SPSY 22623	Internship in School Psychology	3(*4)
or SPSY 22634	Internship in School Psychology	6(*2)
SPSY 22630	Practicum in School Psychology	3

*Students should take two 6 s.h. SPSY 22634 Internship in School Psychology courses or four 3 s.h. SPSY 22623 Internship in School Psychology courses.

Total Required Credits for the Program

39 s.h.

Foundation Courses

Those graduate students completing the Master of Arts in School Psychology at Rowan University do not need to complete the following when applying for the Educational Specialist in School Psychology: a) statement of personal objectives ; b) letters of recommendation; c) interview; d) on-site writing sample or; e) pay the application fee.

Graduation/Exit, Benchmark, and/or Thesis Requirements

None

Minimum Required Grades and Cumulative GPA

The Educational Specialist in School Psychology is a Category 2 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Advisor Contact Information**Barbara Bole Williams, Ph.D.****Herman D. James Hall****856.256.4500 ext. 53804****williamsb@rowan.edu****MASTER'S DEGREES****Master of Arts in Counseling in Educational Settings (M.A.)**

This program leads to a Master of Arts degree in Counseling in Educational Settings and also New Jersey certification in School Counseling. Graduates may work in elementary, middle, and/or secondary school settings, providing student counseling services. Such services include individual and group counseling for students regarding personal, social, and educational needs; consultation with faculty and other professional staff; assessment of individual students regarding personal-social, academic and career interests and needs; consultation with families regarding the individual's educational progress and career-related plans; and working cooperatively with community resources. A number of our graduates seek careers in Higher Education settings: Residence Hall, Student Services, and Career and Academic Planning. Additionally, agencies and non-profit organizations seek students who graduate from this program.

Program Requirements**Required Courses**

48 s.h.

(s.h.: semester hours/credit hours)

Course #	Course Title	S.H.
COUN 26501	Introduction to Counseling & Guidance	3

COUN 26509	Group Counseling in Educational Settings	3
COUN 26520	Design & Coordination of Developmental Counseling Programs	3
COUN 26525	Multicultural Counseling & Advocacy in Educational Settings	3
COUN 26597	Intervention & Referral Services/School Teams & Community Resources	3
COUN 26526	Individual Counseling Procedures	3
COUN 26527	Practicum/Counseling in Educational Settings	3
COUN 26524	Assessment & Appraisal Procedures in CES	3
COUN 26523	Counseling Interviewing Skills & Techniques	3
COUN 26582	Career Counseling in Educational Settings	3
COUN 26601	Internship/Counseling in Educational Settings (3 credits Fall and 3 credits Spring)	6
COUN 26603	Research & Evaluation Procedures/Counseling in Educational Settings	3
COUN 26605	Special Topics in Counseling in Educational Settings	1 (3)*
PSY 22507	Development & Learning	3
or LDTC 18510	Applied Theories of Learning	
PSY 09560	Lifespan Development	3

* Students should take 3-1 s.h. Advanced Workshops.

Total Required Credits for the Program 48 s.h.

Foundation Courses

None

Graduation/Exit/Thesis Requirements

- An Action Research project must be completed to demonstrate advocacy from a social justice framework.
- Continual assessment is utilized to evaluate professional dispositions.

Minimum Required Grades and Cumulative GPA

The Master of Arts in Counseling in Educational Settings is a Category 1 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Advisor Contact Information

Dr. Zalphia Wilson-Hill
Herman D. James Hall
wilson-hill@rowan.edu

Master of Arts in Educational Technology (M.A.)

The Master of Arts in Educational Technology program will offer graduate-level students the expertise and proficiencies needed to incorporate the existing and emerging educational technologies into their classroom and school organization. Individuals completing this online program will not only be skilled in the use of technology resources in the classroom, they will be prepared to assume leadership roles in educational technology in preschool to twelfth grades.

Through intensive seven-week* online courses, graduate level students will be able to complete the program in two years. This graduate program is intended for educators and educational leaders who place a high value on successful teaching and learning through the use of educational technology.

The purpose of the program is to help teacher leaders and administrators reflect on educational technology best practices and discover ways to expertly infuse technology into teaching so as to improve student learning and engagement. Additionally, students in the program will investigate the philosophical, psychological, sociological, and educational implications of emerging technology tools and their impact on schools. Current relationships between theory and practice, along with future technologies, will be examined.

Teachers in the state of New Jersey may apply to the Master of Arts in Educational Technology program through the New Jersey Teacher Outreach Program (NJTOP®).

Program Requirements**Required Courses**

33 s.h.

(s.b.: semester hours/credit hours)

Course #	Course Title	S.H.
EDTC 33580	Introduction to Educational Technology	3
EDTC 33584	Digital Citizenship in 21st Century Schools	3
EDTC 33510	Emerging Technology Tools and the Curriculum	3
EDTC 33585	Internet in the Classroom	3
SPED 08540*	Technology for Students with Special Needs	3
EDTC 33540	Developing Online Resources for P-12 Students	3
EDTC 33561	Leading for Effective Educational Technology	3
EDTC 33550	Learning through Gamification	3
EDTC 33531	Coding and Logical Thinking to Support Learning	3
EDTC 33570	Researching and Analyzing Educational Technology	3
EDTC 33600	Seminar in Educational Technology	3

*SPED 08540 is an eight-week online course.

Total Required Credits for the Program

33 s.h.

Foundation Courses

None

Graduation/Exit/Thesis Requirements

Students will be required to create an e-portfolio demonstrating the key projects that they created in the required courses. An additional requirement for this capstone project would be to create a P-12 student-facing portion of the site and an educational leader-facing portion.

Minimum Required Grades and Cumulative GPA

The Master of Arts in Educational Technology is a Category 1 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Advisor Contact Information**Yu-Chun Kuo, Ph.D.****Herman D. James Hall****856.256.5796****kuo@rowan.edu****Master of Arts in Higher Education (M.A.)**

The Master of Arts in Higher Education is intended for individuals who wish to pursue administrative and student affairs careers at 2 or 4 year institutions. This program offer 2 concentrations:

Administration and Student Affairs (Concentration P807)

Graduates of this program go on to careers in student affairs including residential life, admissions, academic advising, student activity planning and programming, judicial affairs, and service learning/volunteerism.

Students in this concentration are required to prepare and keep a portfolio throughout the duration of the program experience. The portfolio serves as a tool to help faculty observe student progress and learning which is assessed through a Synthesis/Reflective Application Exercise conducted usually at the end of the first year of study but prior to enrolling in the Seminar/Internship in Higher Education Administration I capstone course.

Academic Advising

The Academic Advising concentration is intended for those individuals who wish to increase their knowledge and skills as well as those who seek an entry level position in a 2-year or 4-year college or university, specifically in an academic advising role in higher education, whether in an advising center, an academic department or college, or in a tutoring center or other specialized academic setting.

Students in this concentration are required to prepare and keep a portfolio throughout the duration of the program experience. The portfolio serves as a tool to help faculty observe student progress and learning which is assessed through a Synthesis/Reflective Application Exercise conducted usually at the end of the first year of study but prior to enrolling in the Seminar/Internship in Higher Education Administration I capstone course.

Program Requirements

Required Courses

Students select one track area from the options below and complete the listed courses.

Administration/Student Affairs

36 s.h.

<u>Course #</u>	<u>Course Title</u>	<u>S.H.</u>
CURR 29504	Understanding Adult Learning & Development	3
EDAM 27620	Legal Issues in Higher Education	3
EDAM 27622	Planning & Resource Allocation in Higher Education	3
EDAM 27623	Diversity in Higher Education	3
EDAM 27628	Seminar/Internship in Higher Education Administration I (Capstone course)	3
EDAM 27629	Seminar/Internship in Higher Education Administration II (Capstone course)	3
EDAM 27637	Higher Education Administration	3
EDAM 27737	The College Student: Issues & Support Programs	3
EDST 24501	Procedures & Evaluation in Research	3
HIED 06605	Higher Education in America	3

Restricted Electives: 6 s.h. of pre-approved restricted electives. Please consult with the Academic Advisor

Academic Advising

36 s.h.

<u>Course #</u>	<u>Course Title</u>	<u>S.H.</u>
COUN 26509	Group Counseling in Educational Settings	3
COUN 26523	Counselor Interviewing Skills & Techniques	3
COUN 26582	Career Counseling in Educational Settings	3
CURR 29504	Understanding Adult Learning & Development	3
EDAM 27620	Legal Issues in Higher Education	3
EDAM 27623	Diversity in Higher Education	3
EDAM 27628	Seminar/Internship in Higher Education Administration I (Capstone course)	3
EDAM 27629	Seminar/Internship in Higher Education Administration II (Capstone course)	3
EDAM 27630	Academic Advising in Higher Education	3
EDAM 27737	The College Student: Issues & Support Programs	3
EDST 24501	Procedures & Evaluation in Research	3
HIED 06605	Higher Education in America	3

Foundation Courses

None

Graduation/Exit, Benchmark, and/or Thesis Requirements

Administration & Academic Advising: Thesis or major research project

Minimum Required Grades and Cumulative GPA

The Master of Arts in Higher Education is a Category 3 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Advisor Contact Information

Tyrone McCombs
Herman D. James Hall
856.256.4500 ext. 53666
mccombst@rowan.edu

Master of Arts in Reading Education (M.A.)

The Masters of Arts in Reading Education is nationally accredited by the National Council for Accreditation in Teacher Education in conjunction with the International Literacy Association. Students in the program will have the opportunity to develop both a contemporary conceptual framework and effective strategies that are appropriate for guiding literacy development in classroom and clinical environments.

The goals and objectives for the program and for the individual courses therein are aligned with the International Literacy Association standards, preparing reading specialists to work with professionals and students to enable all students to meet the appropriate New Jersey Core Curriculum Standards in Language Arts/Literacy.

The course of studies provides students with an understanding of the basic principles of developmental and remedial reading instruction for grades pre-k-12. Students acquire advanced knowledge of the reading process. They engage in hands-on experiences in diagnosing and teaching learners who are having difficulty with literacy acquisition. The program prepares professionals to teach literacy to all learners and serve as leaders in supporting their colleagues in the field.

There are two concentration options in this program. The total number of required credits varies from 30-33 depending upon the concentration selected during the application process.

- **Concentration I:** Reading Practitioner is best intended for those who wish to pursue advanced study in literacy education and become more knowledgeable about instructional strategies in English Language Arts, especially those that align with the Common Core Standards. Students in this track are not required to have teaching certification, but are required to have access to a classroom and/or school district setting as well as a group of children to work with. This concentration does NOT lead to NJ Reading Specialist Certification.
- **Concentration II:** Reading Specialist is best intended for those who hold a current state teaching certificate, have at least two year's full-time teaching experience, and who want to expand their knowledge, skills, and dispositions in teaching literacy and coaching colleagues. Students learn procedures for administering reading programs in elementary and secondary schools. While enrolled in the course Clinical Experiences in Reading, students are required to engage in tutoring at the highly regarded clinic held on Rowan's Glassboro campus. There is an emphasis on reflective practice with colleagues and peer mentoring as part of this experience. This concentration leads to NJ Reading Specialist Certification†.

Program Requirements Concentration I

- The Master of Arts in Reading Education: Reading Practitioner is a part-time program offered in an accelerated online format. It requires the completion of 30 graduate semester hours (10 courses), which are possible to complete in only 5 consecutive semesters. Students must successfully complete and present a cumulative digital portfolio, which includes a comprehensive paper.

Required Courses for Concentration I

30 s.h.

(s.h.: semester hours/credit hours)

<u>Course #</u>	<u>Course Title</u>	<u>S.H.</u>
READ 30500	Theory & Practice in Literacy Education	3
READ 30510	Teaching Reading in the Elementary Schools	3
READ 30520	Content Area Literacy	3
READ 30530	Teaching Reading to the Exceptional Child	3
READ 30535	Word Study: Phonics, Spelling & Vocabulary Instruction	3
READ 30545	Using Multicultural Literature in the K-12 Reading & Writing Classroom	3
READ 30547	Teaching Literacy to English Language Learners	3
READ 30552	Teaching Writing in K-12 Classrooms	3
READ 30557	21st Century Literacy: Digital Knowledge, Digital Teaching	3
READ 30610	Literacy Assessment	3

Total Required Credits for the Program

30 s.h.

Program Requirements Concentration II

The Master of Arts in Reading Education: Reading Specialist is a part-time program offered in an accelerated hybrid format with three courses requiring face-to-face meetings on Rowan's Glassboro campus and the remaining courses taking place 100% online. It requires the completion of 34 graduate semester hours (11 courses), which are possible to complete in only 6 consecutive semesters. Students must successfully complete a comprehensive exam and thesis.

- Total semester hours required for program completion: 34 semester hours (s.h.)
- Thesis Requirement: Yes

Required Courses for Concentration II

34 s.h.

(s.h.: semester hours/credit hours)

<u>Course #</u>	<u>Course Title</u>	<u>S.H.</u>
READ 30515	Teaching Reading & Writing across the Grades	3

READ 30520	Content Area Literacy	3
READ 30530	Teaching Reading to the Exceptional Child	3
READ 30535	Word Study: Phonics, Spelling & Vocabulary Instruction	3
READ 30540	Administration & Supervision of School Reading Programs	3
READ 30545	Using Multicultural Literature in the K-12 Reading & Writing Classroom	3
READ 30550	Diagnosis of Remedial Reading Problems	3
READ 30560	Correction of Remedial Reading Problems	3
READ 30570	Clinical Experiences in Reading	6
READ 30599	Reading Research Seminar I	1
READ 30600	Reading Research Seminar II	3

Total Required Credits for the Program 34 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark, and/or Thesis Requirements

- Students selecting Concentration I must successfully complete and present a cumulative digital portfolio, which includes a comprehensive paper.
- Students selecting Concentration II must successfully complete a comprehensive exam and defend a Master's Thesis.

Minimum Required Grades and Cumulative GPA

The Master of Arts in Reading Education is a Category 2 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Advisor Contact Information

Valarie G. Lee

Herman D. James Hall

856.256.4500 ext. 53090

leev@rowan.edu

Master of Arts in STEM Education (M.A. STEM)

The need for teachers in high-need disciplines continues to grow. This program addresses these needs by selecting exceptionally able college seniors and career changers with science, technology, engineering, or mathematics backgrounds from across the country and supporting them to develop successful careers as highly skilled math, science, and technology teachers.

The Master of Arts in STEM Education (M.A. STEM) offers the unique opportunity for students who have undergraduate degrees in the mathematics, engineering, or the sciences to pursue an initial New Jersey teaching certificate in mathematics and/or one of the sciences† and a master's degree simultaneously.

This program is carefully designed such that all coursework has a STEM (Science, Technology, Engineering, Mathematics) focus that provides the ideal pedagogical preparation for prospective Mathematics or Science teachers in the K-12 setting. This 13-month program includes an early field experience, face-to-face, online, and hybrid courses, and a year-long teacher residency. The culminating experience is a seminar in which students transition from teacher candidate to teacher by planning for leading their own classrooms.

Concentrations within the Master of Arts in STEM Education:

- Science
- Mathematics

Program Requirements

Required Courses

33 s.h.

(s.h.: semester hours/credit hours)

Course #	Course Title	S.H.
SELN 60576	Inclusive Instruction in STEM Classrooms	3
STEM 60501	Teaching & Research Methods I	3
STEM 60502 or STEM 60522	Teaching & Research Methods II	5
STEM 60503 or STEM 60523	Teaching & Research Methods III	6
STEM 60504	Professional Seminar for STEM Educators	3

STEM 60510	Teaching STEM in Diverse Settings	3
STEM 60512	STEM Education Residency I	1
STEM 60513	STEM Education Residency II	3
READ 30520	Content Area Literacy	3
SMED 60550	Schools and Society: Foundations for Secondary Teaching	3

Total Required Credits for the Program 33 s.h.

Foundation Courses

- Students in this program are required to meet admission course requirements in either K-12 Biology, Chemistry, Mathematics, Physical Science, or Physics NJ state certification subject areas. Please consult Academic Advisor for information.
- One course in each of the following areas: Adolescent Development, Educational Psychology, Health and Wellness Or Biology Or Nutrition

Graduation/Exit/Thesis Requirements

Exit Portfolio required.

Minimum Required Grades and Cumulative GPA

The Master of Arts in STEM Education is a Category 2 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Contact Information

Program Coordinator/Advisor Contact Information

Issam Abi-El-Mona
Herman D. James Hall
856.256.4500 ext. 4736
abi-el-mona@rowan.edu

Master of Arts in School Administration (M.A.)

This principal preparation program provides the candidate with the opportunity to learn the diagnostic and prescriptive skills necessary to function as a collaborative leader in a P-12 learning organization. The program meets the requirements established by the New Jersey Department of Education for state certification as a public school administrator in positions such as assistant superintendent for curriculum and instruction, principal, assistant principal, vice principal, and director†. In order for candidates to qualify for the Certificate of Eligibility (C.E.) for the principal endorsement, they must achieve a satisfactory score on the School Leaders Licensure Assessment.

Program Requirements

Required Courses 36 s.h.

(s.h.: semester hours/credit hours)

<u>Course #</u>	<u>Course Title</u>	<u>S.H.</u>
EDSU 28510	Curriculum Design & Development for Instructional Leaders	3
CURR 29590	Curriculum Evaluation	3
EDAM 27510	Change for School Improvement	3
EDAM 27521	Introduction to the Principalship	3
EDAM 27535	School Finance & Records	3
EDAM 27559	Law & Ethics for School Leadership	3
EDAM 27600	Practicum/Seminar I in Administration & Supervision	3
EDAM 27601	Practicum/Seminar II in Administration & Supervision	3
EDST 24504	Action Research in Education	3
EDSU 28522	Instructional Leadership & Supervision	3
EDSU 28523	Building Organizational Capacity	3
EDSU 28546	Educational Organizations & Leadership	3

Total Required Credits for the Program 36 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark, and/or Thesis Requirements

Benchmarks: *Successful completion of all benchmarks is required for continuation in and graduation from the program. Details regarding benchmarks timing and assessments will be shared with the student throughout the program by the Academic Advisor.*

Benchmark I:

- **Timing:** Occurs after the completion of 12 prescribed credits (Phase I)
- **Requirements:** Candidates must successfully complete all Phase I courses and begin collecting a sample of course products from Phase I courses that demonstrate formative or developing achievement of appropriate ISLLC/ELCC standards to be ultimately included in final professional portfolio. Discuss details with Academic Advisor.
- **Options:** If the student does not successfully pass the benchmark, then the student is invited to re-take any necessary coursework.

Benchmark II:

- **Timing:** Occurs after the completion of 30 prescribed credits (Phase II)
- **Requirements:** Candidates must take the School Leader Licensure Assessment and have an approved tentative plan for the Practicum and Seminar in Administration and Supervision courses (internship). Discuss details with the Academic Advisor.
- **Options:** If the student does not successfully pass the benchmark, then the student is able to re-take Assessment Exam or any incomplete coursework, until such time as benchmark is passed or student is made inactive.

Minimum Required Grades and Cumulative GPA

The Master of Arts in School Administration is a Category I program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Advisor Contact Information

Miguel Greenup
Herman D. James Hall
856.256.4500 ext. 53637
greenup@rowan.edu

Master of Arts in School Psychology (M.A.)

Completion of the Master of Arts (M.A.) in School Psychology provides a background in the theories, major knowledge, and methodological procedures in school psychology. This program (or its equivalent) is required for admission into the Educational Specialist (Ed.S.) program. The Master of Arts and Educational Specialist in School Psychology combine to meet the requirements for NJ Department of Education certification in School Psychology†.

Program Requirements**Required Courses**

33 s.h.

(s.h.: semester hours/credit hours)

Course #	Course Title	S.H.
COUN 26509	Group Counseling in Educational Settings	3
COUN 26526	Individual Counseling Procedures	3
LDTC 18520	Neurological Bases of Educational Disorders	3
PSY 01570	Research Methodology and Statistics in Counseling Psych	3
PSY 03624	Psychopathology of Childhood & Adolescence	3
PSY 05610	Social and Cultural Diversity	3
or COUN 26525	Multicultural Counseling	
PSY 06533	Test & Measurements	3
PSY 22507	Development & Learning	3
PSY 09560	Lifespan Development	
PSY 22600	Seminar I: App Res in School Psychology	3
or SPSY 22600	Applied Research Seminar I: School Psychology	
PSY 22601	Seminar II: App Res in School Psychology	3
or SPSY 22601	Applied Research Seminar II: School Psychology	
SPED 08555	Educational Psychology of the Exceptional Learner	3
Total Required Credits for the Program		33 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark, and/or Thesis Requirements

- Successful completion of comprehensive exam (no thesis required)

Minimum Required Grades and Cumulative GPA

The Master of Arts in School Psychology is a Category 2 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Advisor Contact Information**Barbara Bole Williams, Ph.D.****Herman D. James Hall****856.256.4500 ext. 53804****williamsb@rowan.edu****Master of Arts in Special Education (M.A.)**

This advanced program is designed for individuals who possess an instructional certificate and want to pursue a Master of Arts in Special Education. The purpose of the program is to provide advanced studies focusing on educational, psychological and sociological needs of children and youth with disabilities. The course work and related field experiences are designed to foster an understanding of students with special needs, combined with pedagogical skills to accommodate these needs and provide appropriate curriculum modifications when necessary. Upon completing the program, candidates earn a Master of Arts in Special Education.

Track Information

There are currently four track options in this program. The total number of required credits varies from 30-36 depending upon the track selected during the application process.

- **Track I: Graduate Endorsement** is designed for those who wish to qualify for State of New Jersey Teacher of Students with Disabilities Certification while simultaneously earning their Master's degree†.
- **Track II: Autism Spectrum Disorders** is designed for those who are already licensed to teach Special Education, but are interested in working with students with significant disabilities, especially autism spectrum disorders.
- **Track III: Learning Disabilities** is designed for teachers who are looking to broaden their knowledge and skills to better serve students with learning difficulties.
- **Track IV: Early Childhood Special Education** is designed for education professionals who are looking to broaden their knowledge and skills to better serve young children with disabilities and their families.

Program Requirements**Core Required Courses**

18 s.h.

(s.h.: semester hours/credit hours)

Course #	Course Title	S.H.
SELN 10577	Collaborative Instruction in Inclusive Classrooms	3
SELN 10578	Administration and Supervision in Special Education	3
SELN 10582	Communication Skills for Students with Disabilities	3
SELN 10585	Educational Assessment to Endorsement	3
SELN 10600	Research Seminar in Special Education	3
SELN 10601	Research Seminar in Special Education	3

Graduate Endorsement Track

18 s.h.

Course #	Course Title	S.H.
READ 30530	Teaching Reading to Exceptional Children	3
SELN 10581	Implementing Positive Behavior Support	3
SELN 10592*	Clinical Seminar in Special Education	2
SPED 08515	Curriculum, Instruction & Transition in Special Education	3
SPED 08520*	Clinical Experiences in Special Education	4
SPED 08555	Education & Psychology of Exceptional Learners	3

* Taken after successful completion of all Graduate Endorsement track courses.

Note: Students must complete an application on TK20 for SPED08.520.

<u>Autism Spectrum Disorders Track</u>		12 s.h.
<u>Course #</u>	<u>Course Title</u>	<u>S.H.</u>
PSY 02520	Assessments & Interventions for Social Skills & Relationships in Children	3
PSY 02600	ABC's of Applied Behavior Analysis	3
SELN 10590	Introduction to Autism Spectrum Disorders	3
SELN 10591	Instructional Methods for Students with Autism Spectrum Disorders	3
<u>Learning Disabilities Track</u>		15 s.h.
<u>Course #</u>	<u>Course Title</u>	<u>S.H.</u>
LDTG 18510	Applied Learning Theories	3
LDTG 18504	Assessment of Learning Disabilities	3
LDTG 18520	Neurological Basis of Educational Disorders	3
READ 30530	Teaching Reading to Exceptional Children	3
SPED 08555	Educational Psychology of the Exceptional Learner	3
<u>Early Childhood Special Education Track</u>		15 s.h.
<u>Course #</u>	<u>Course Title</u>	<u>S.H.</u>
ECSE 10500	Characteristics of Young Children with Disabilities (birth - five) and their Families	3
ECSE 10501	Methods for Assessing and Teaching Infants and Toddlers with Disabilities	4
ECSE 10502	Methods for Assessing and Teaching Preschool Children (3-5) with Disabilities	4
ECSE 10503	Supporting Diverse Families, Community Partnerships, and Transitions	3
ECSE 10504	Self Study Project Inquiry in Early Childhood Special Education	1
<u>Total Required Credits for the Program</u>		30-36 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark, and/or Thesis Requirements

Students must successfully complete and defend Master's thesis.

Minimum Required Grades and Cumulative GPA

The Master of Arts in Special Education is a Category 2 program.

*For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.***Program Coordinator/Advisor Contact Information**

Nicole Edwards
Herman D. James Hall
856.256.3855
edwardsn@rowan.edu

Master of Arts in Urban Education and Community Studies (M.A.)

The Master of Arts in Urban Education and Community Studies is intended to prepare urban educators, community organizers, policymakers, school leaders, and youth-focused change agents to understand the contradictions of current urban school systems and meaningfully address the educational and broader socioeconomic disparities that urban communities too often face. The program meets its primary objective through a focus on students understanding and applying a range of critical perspectives to study urban education and communities including from historical, legal, sociological, and political economic lenses. There are no certifications attached to the program. The program culminates in a master's degree.

Program Requirements**Required Courses**

12 s.h.

Students must choose 12 s.h. from the bank of courses.

(s.h.: semester hours/credit hours)

<u>Course #</u>	<u>Course Title</u>	<u>S.H.</u>
CASE 90510	Power and Privilege: The Social Construction of Difference	3
CASE 90511	Sociology of Education: Political Economy of Urban Education and Environments	3

CASE 90512	Examining Intersectionality: Critical Theories of Race, Class, Gender, Sexuality, and Citizenship	3
CASE 90513	History of Urban Education and Communities	3
CASE 90514	Education Reform in the US: Theories of Change	3

Concentration Courses

12 s.h.

Students must choose 12 s.h. from the bank of courses.
(s.h.: semester hours/credit hours)

Course #	Course Title	S.H.
CASE 90530	Curriculum Theories in Urban Education	3
CASE 90531	Critical Consciousness: Sharing Power and Voice with Students	3
CASE 90533	Critical Pedagogy	3
CASE 90534	Disability Studies	3
CASE 90540	Urban Education Policy and Reform	3
CASE 90541	Leadership for Social Justice and Educational Equity	3
CASE 90542	Engaging in Education and Community Advocacy	3
CASE 90543	Structural, Cultural, and Demographic Displacement in Urban Education Contexts	3
CASE 90544	Urban Politics and Policy	3

Elective Courses

6 s.h.

(s.h.: semester hours/credit hours)

Course #	Course Title	S.H.
CASE 90550	Urban Education and Community Studies Special Topics	3
CASE 90551	Artistic Expression in Action: Building Stronger Communities through Fine Arts Outreach	3

Research Courses

6 s.h.

Students must choose 6 s.h. from the bank of courses.
(s.h.: semester hours/credit hours)

Course #	Course Title	S.H.
CASE 90520	Participatory Research Methods in Contexts	3
CASE 90521	Ethnography in Urban Settings	3
CASE 90522	Urban Quantitative Methods	3

Thesis Courses

3 s.h.

(s.h.: semester hours/credit hours)

Course #	Course Title	S.H.
CASE 90524	Thesis Capstone Project: M.A. in Urban Education and Community Studies	3

Foundation Courses

None

Graduation/Exit, Benchmark, and/or Thesis Requirements

Satisfy all course requirements as dictated by the academic department. Earn an official cumulative GPA of 3.0 on Rowan's 4.0 scale. Satisfy program exit project as outlined by the academic department. Any other requirements for graduation from Rowan University.

Minimum Required Grades and Cumulative GPA

The Master of Arts in Urban Education and Community Studies is a Category I program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Advisor Contact Information

Susan Browne, Ed.D.
Herman D. James Hall
856.256.4500 ext. 3830
brownes@rowan.edu

Master of Education in Teacher Leadership (M.Ed.)

The Master of Education in Teacher Leadership is a graduate program of Rowan University's CAEP accredited College of Education. It is designed for teachers who want to develop and hone their leadership skills but wish to remain in the classroom. Candidates work with curriculum, become mentor/master teachers, and develop programs aimed at improving schooling for all children.

The Master of Education degree program has three goals:

1. To develop teacher leaders who practice teaching skills aligned with the National Board for Professional Teaching Standards (NBPTS)'s Five Core Propositions.
2. To develop teacher expertise in a content area of choice.
3. To empower teachers to assume leadership roles within their schools and districts.

The M.Ed. in Teacher Leadership is a part-time program with its core courses offered in an online accelerated format. This degree requires the completion of a minimum of 30 graduate semester hours or 11 – 14 courses in 6 consecutive semesters. The following three components make up the M.Ed. in Teacher Leadership program:

- Six Core Courses in Teaching and Learning (18 semester hours)
- Content Area COGS Coursework (11-21 semester hours)
- Self-Study in Teacher Leadership (1 semester hour)

The seven core courses for this program are offered completely online. The approved Content Area Certificates of Graduate Study (COGS) are offered in varying formats depending on the COGS (e.g., online, hybrid, face-to-face Glassboro Campus, face-to-face Camden Campus).

Content Certificate of Graduate Study (COGS) Options

Following are the currently accepted Content area COGS for the Master of Education in Teacher Leadership program. Advisement for each of those COGS is managed by the department in which it is housed.

- Autism Spectrum Disorders (Interdisciplinary & Inclusive Education, Online)
- Educational Technology (STEAM Education, Online)
- ESL/Bilingual (Language, Literacy & Sociocultural Education, Online)
- Global History (History, Glassboro Campus)
- History (History, Glassboro Campus)
- Holocaust and Genocide Education (Sociology & Anthropology, Glassboro Campus)
- Learning Disabilities (Interdisciplinary & Inclusive Education, Online and Glassboro Campus)
- Reading (Language, Literacy & Sociocultural Education, Glassboro Campus)
- Reading/Writing (Language, Literacy & Sociocultural Education, Glassboro Campus)
- School Public Relations (Public Relations & Advertising, Glassboro Campus)
- Special Education (Interdisciplinary & Inclusive Education, Online and Glassboro Campus)

Program Requirements

Required Courses (Teacher Leadership Core/Teaching and Learning COGS courses)

19 s.h.

(s.h.: semester hours/credit hours)

<u>Course #</u>	<u>Course Title</u>	<u>S.H.</u>
CURR 29580	Fundamentals of Curriculum Development	3
EDUC 01624	Educational Change	3
ELEM 02511	Learning Community Classrooms	3
ELEM 02550	Analysis of Classroom Teacher Behaviors	3
LDTC 18510	Applied Theories of Learning	3
READ 30566	Researching Classroom Practice	3
ELEM 02602	Self-Study Research in Teacher Leadership	1

If students hold National Board certification, two courses in the Core/Teaching and Learning COGS will be waived.

Required Content Area COGS Courses

11-21 s.h.

Choose one (1) of the Content Area COGS options listed and follow the course requirements as listed in this catalog.

Content Area COGS

S.H.

Autism Spectrum Disorders	15
Educational Technology	15
English as a Second Language	16-21

Global History	15
History	15
Holocaust and Genocide Education	12
Learning Disabilities	15
Reading	15
Reading/Writing	15
School Public Relations*	9
Special Education	18

*Students that select the COGS in School Public Relations will be required to complete an additional two or three credit course to meet the 30 total required credits for the program. Please contact the program coordinator for additional information.

Total Required Credits for the Program 30 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark, and/or Thesis Requirements

Self-Study in Teacher Leadership Course - This mandatory Self-Study course must be completed successfully to be eligible to graduate. Successful completion of the COGS coursework is a requirement prior to registering for the Self-Study in Teacher Leadership Course.

For additional details, please consult the Program Coordinator and your appropriate COGS coordinator.

Minimum Required Grades and Cumulative GPA

The Master of Education in Teacher Leadership is a Category 2 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Advisor Contact Information

John J. Quinesso, Jr.

Department of Interdisciplinary and Inclusive Education

Herman D. James Hall

856.256.4500 ext. 53814

quinesso@rowan.edu

Master of Science in Teaching in Subject Matter Education (M.S.T.)

The Master of Science in Teaching (M.S.T.) in Subject-Matter (P-12) Education program offers the unique opportunity for students to pursue an initial New Jersey teaching certificate† and a Master's degree simultaneously. The program is designed to prepare individuals who have undergraduate degrees to be certified as subject-matter (P-12) teachers. Students whose undergraduate degree is in a professional or technical area may need to take as many as 30 additional credits in the desired content discipline necessary to meet certification requirements before being accepted into the program. Questions about appropriate undergraduate majors, academic sequences or prerequisites should be directed to the program coordinator. The subject-matter program is designed for prospective social studies, English, or Spanish teachers. The Master of Science in Teaching program is a one year (May to May), full-time program. The program cycle includes three consecutive terms beginning with a summer term and concluding after the spring term.

Subject Matter Focus Areas

The following focus areas are available in the Subject Matter Education program. (Candidates will officially declare their focus area at the time of application.):

- P-12 English
- P-12 Foreign Language
- P-12 Social Studies

There is also an option for Subject Matter Education – Theatre Education, which has its own catalog entry in this section.

Program Requirements

Required Courses 33 s.h.

(s.h.: semester hours/credit hours)

Course #	Course Title	S.H.
SMED 60550	Schools & Society: Foundations for Secondary Teaching	3
SMED 60552	Teaching Content in Diverse Classrooms	3
SMED 60553	Creating Supportive Middle and High School Learning Environments	7
SMED 60562	Residency I (Fall Field Placement)	3
SMED 60560	Curriculum, Instruction, and Assessment I	3
READ 30520 or BLED 40512	Content Area Literacy (for English, Social Studies, and Theatre students) Linguistic and Second Language Acquisition (Spanish students only)	3
SELN 60577	Learning Community Classrooms	3
READ 30520	Effective Inclusive Instruction	3
SMED 60564	MST SME Professional Seminar	3
SMED 60561	Curriculum, Instruction, and Assessment II	3
SMED 60563	Residency II (Spring Field Placement)	3

Total Required Credits for the Program 33 s.h.

Foundation Courses

For a list of foundation courses for each focus area, please contact the Program Coordinator.

Graduation/Exit, Benchmark, and/or Thesis Requirements

No thesis is required. Contact the Program Coordinator for graduation/exit and benchmark requirements.

Minimum Required Grades and Cumulative GPA

The Master of Science in Teaching in Subject Matter Education is a Category 2 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Advisor Contact Information

Ray Foley, Ed.D.

Herman D. James Hall

302.383.1144

foleyr@rowan.edu

Master of Science in Teaching in Subject Matter Education - Theatre Education (M.S.T.)

The Master of Science in Teaching (M.S.T.) in Theatre Education program offers students the unique opportunity to pursue an initial New Jersey teaching certificate† and a Master's degree simultaneously. The program is designed to prepare individuals who have undergraduate degrees to be certified P-12 Theatre teachers. Students whose undergraduate degree is in a professional or technical area may need to take as many as 30 additional credits in the desired content discipline necessary to meet certification requirements before being accepted into the program. Questions about appropriate undergraduate majors, academic sequences or prerequisites should be directed to the program coordinator. The Theatre Education program is designed for those with undergraduate theatre degrees who wish to teach theatre in P-12 classrooms. The Master of Science in Teaching program is a one year (May to May), full-time program. The program cycle includes three consecutive terms beginning with a summer term and concluding after the spring term.

Program Requirements

The Rowan University Master of Science in Teaching (M.S.T.) Theatre Education program requires the completion of 33 semester hours (s.h.) on the Glassboro or Camden, NJ campus.

- Total semester hours required for program completion: 33 s.h.
- Thesis Requirement: No

Required Courses

33 s.h.

(s.h.: semester hours/credit hours)

Course #	Course Title	S.H.
SMED 60550	Schools & Society: Foundations for Secondary Teaching	3
SMED 60552	Teaching Content in Diverse Classrooms	3
SMED 60553	Creating Supportive Middle and High School Learning Environments	3
SMED 60562	Residency I (Fall Field Placement)	3
SMED 60560	Curriculum, Instruction, and Assessment I	3
READ 30520	Content Area Literacy (for English, Social Studies, and Theatre students)	3
SELN 60577	Effective Inclusive Instruction	3
SMED 60564	MST SME Professional Seminar	3
SMED 60561	Curriculum, Instruction, and Assessment II	3

SMED 60563

Residency II (Spring Field Placement)

6

Total Required Credits for the Program

33 s.h.

Foundation Courses

For a list of foundation courses for each focus area, please contact the Program Coordinator.

Graduation/Exit, Benchmark, and/or Thesis Requirements

No thesis is required. Contact the Program Coordinator for graduation/exit and benchmark requirements.

Minimum Required Grades and Cumulative GPA

The Master of Science in Teaching in Subject Matter Education - Theatre Education is a Category 2 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator

Ray Foley, Ed.D.

Herman D. James Hall

302.383.1144

foleyr@rowan.edu

Certificates of Advanced Graduate Study (Non-degree)**Certificate of Advanced Graduate Study in Chief School Administrator Certificate (CAGS)**

The Certificate of Advanced Graduate Study (CAGS) in Chief School Administrator is designed to provide students with the course content and internship totaling 33 credit hours past the master's degree necessary for the certification from the State of New Jersey†. New Jersey requires 30 credit hours in advanced graduate study and a 150 hour internship (33 credits total) in addition to the master's degree as part of the certification process for candidates without a Master's Degree in Educational Leadership and 5 years experience as a principal. It also enables students interested in advanced competency coursework to engage with relevant coursework without matriculating into the Doctor of Education program. The CAGS also allows students who are unsuccessful in the doctoral program as a result of an inability to pass the Benchmark II (BMII) [the program's comprehensive exam] to be recognized for the successful completion of the program's core courses. A student who has made a B- or better, and earned no more than two B-, in the required courses may be eligible for the CAGS in Chief School Administrator Certification.

Program Requirements**Required Courses**

33 s.h.

(s.h.: semester hours/credit hours)

Course #	Course Title	S.H.
EDSU 28715	Leadership Theory	3
EDSU 28706	Diversity in Educational Leadership	3
EDST 24721	Action Research in Ed Leadership	3
EDAM 27704	Changing Organizations	3
EDAM 27733	The Policy Environment	3
EDAM 27750	Applied Ethics of Educational Leadership	3
EDAM 27714	Planning and Negotiating	3
EDAM 27735	Instructional Leadership and The Curriculum	3
EDAM 27749	Issues in School Governance	3
EDSU 28602	Field Service in Supervision: District Internship	3
TBD	Internship	3

Total Required Credits for the Program

33 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark, and/or Thesis Requirements

None

Minimum Required Grades and Cumulative GPA

A student who has received a grade of B- or better in these 11 courses is eligible for the CAGS. The CAGS in Chief School Administrator is a Category I program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Advisor Contact Information

Mike Greenup
Herman D. James Hall
856.256.4500 ext. 53637
greenup@rowan.edu

Certificate of Advanced Graduate Study in Community College Leadership (CAGS)

The Certificate of Advanced Graduate Study (CAGS) in Community College Leadership enables students interested in advanced competency coursework to engage with relevant coursework without matriculating into the Doctor of Education program. Current and future community college leaders who have a master's degree and experience in other higher education sectors or industry will seek out the Certificate of Advanced Graduate Study in Community College Leadership to gain requisite understanding of the 2-year college sector. The CAGS in Community College Leadership also allows students who are unsuccessful in the doctoral program as a result of an inability to pass the Benchmark II (BMII) [the program's comprehensive exam] to be recognized for the successful completion of the program's core courses and the community college specific track courses. A student who has made a B- or better, and earned no more than two B-, in the required courses may be eligible for the CAGS in Community College Leadership.

The program focuses on the principles and techniques of administering community and junior colleges and related postsecondary systems, the study of community and junior colleges as objects of applied research, and that may prepare individuals to function as administrators in such settings; and includes instruction in community and junior college finance; policy and planning studies; curriculum; student services; research on community and junior colleges; and issues of evaluation and accountability.

Program Requirements

Required Courses 13 s.h.

(s.b.: semester hours/credit hours)

Course #	Course Title	S.H.
EDAM 27784	Introduction to the Community College	1
EDAM 27704	Changing Organizations	3
EDAM 27782	The American Community College	3
EDAM 27780	Community College Leadership And Governance	3
EDAM 27781	Community College Budgeting And Finance	3

Total Required Credits for the Program 13 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark, and/or Thesis Requirements

none

Minimum Required Grades and Cumulative GPA

The Certificate of Advanced Graduate Study in Community College Leadership is a Category I program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Advisor Contact Information

Monica Reid Kerrigan, Ed.D.
Herman D. James Hall
856.256.4500 ext. 53658
kerriganm@rowan.edu

Certificate of Advanced Graduate Study in Educational Leadership (CAGS)

The Certificate of Advanced Graduate Study (CAGS) in Educational Leadership enables students interested in advanced leadership coursework to engage with foundational courses without matriculating into the Doctor of Education program. The program focuses on the general principles and techniques of administering a wide variety of schools and other educational organizations and facilities, supervising educational personnel at the school or staff level, and it may prepare individuals as general administrators and supervisors. These courses convey key concepts related to leadership, organizational development and change, research, and diversity. Students who complete these courses are familiar with foundational theories in Educational Leadership and the application of these theories to changing educational organizations into learning organizations committed to access, success, and educational equity for all stakeholders. A student who has made a B- or better in the four core courses (as a matriculated or non-matriculated student) may be eligible for the CAGS in Educational Leadership.

Program Requirements

Required Courses 12 s.h.
(s.b.: semester hours/credit hours)

Course #	Course Title	S.H.
EDSU 28715	Leadership Theory	3
EDST 24721	Action Research in Educational Leadership	3
EDSU 28706	Diversity in Educational Leadership	3
EDAM 27704	Changing Organizations	3

Total Required Credits for the Program 12 s.h.

Foundation Courses

None

Minimum Required Grades and Cumulative GPA

The Certificate of Advanced Graduate Study in Educational Leadership is a Category 2 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Advisor Contact Information

Mike Greenup
Herman D. James Hall
856.256.4500 ext. 53637
greenup@rowan.edu

Certificate of Advanced Graduate Study in Principal Preparation (CAGS)

This program meets the requirements specified by the state of New Jersey†, including a 300 hour internship and is designed to serve the person who has already earned a master's degree, has five years of full-time experience, and who wants to qualify as a principal in the public schools.

Program Requirements

Required Courses 24 s.h.
(s.b.: semester hours/credit hours)

Course #	Course Title	S.H.
EDAM 27510	Change for School Improvement	3
EDAM 27521	Introduction to the Principalship	3
EDAM 27535	School Finance & Records	3
EDAM 27559	Law & Ethics for School Leadership	3
EDAM 27600	Practicum/Seminar I in Administration & Supervision	3
EDAM 27601	Practicum/Seminar II in Administration & Supervision	3
EDSU 28522	Instructional Leadership & Supervision	3
EDSU 28523	Building Organizational Capacity	3

Total Required Credits for the Program 36 s.h.

Foundation Courses

- The program allows students to transfer 12 credits into the program provided that a grade of “B” or better was earned.
- If students cannot transfer 12 credits, they can register for courses from the M.A. in School Administration program to reach the required 36 credits.

Graduation/Exit, Benchmark, and/or Thesis Requirements

Benchmarks: *Successful completion of all benchmarks is required for continuation in and graduation from the program. Details regarding benchmarks' timing and assessments will be shared with the student throughout the program by the Academic Advisor.*

Benchmark I:

- **Timing:** Occurs after the completion of 12 prescribed credits
- **Requirements:** Candidates must achieve a passing score on the School Leader Licensure Assessment and have an approved tentative plan for the Practicum and Seminar in Administration and Supervision courses (internship). Discuss details with the Academic Advisor.
- **Options:** If the student does not successfully pass the benchmark, then the student is able to re-take Assessment Exam or any incomplete coursework, until such time as benchmark is passed or student is made inactive.

Minimum Required Grades and Cumulative GPA

The Certificate of Advanced Graduate Study in Principal Preparation is a Category I program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Advisor Contact Information

Miguel Greenup
Herman D. James Hall
856.256.4500 ext. 53637
greenup@rowan.edu

Certificate of Advanced Graduate Study in Student Assistance Coordination (CAGS)

The Certificate of Advanced Graduate Study (CAGS) in Student Assistance Coordination is intended for individuals who want to be certified as student assistance coordinators. A Student Assistance Coordinator provides in-school assessment, crisis intervention, and counseling and referral services to any student experiencing personal, family, or peer difficulties. Student Assistance Coordinator's work with students, their families, and community resources in many New Jersey school districts to address substance abuse issues, social and emotional issues, and behavioral problems experienced by school-age children.

The certificate may be earned on its own or it can be credited towards the Master of Arts in Counseling Educational Settings. Master of Arts in Counseling in Educational Settings students interested in obtaining the certificate are encouraged to contact the program coordinator for additional information.

Program Requirements**Required Courses**

24 s.h.

(s.h.: semester hours/credit hours)

Course #	Course Title	S.H.
COUN 26523	Counseling Interviewing Skills and Techniques	3
PSY 05502	Fundamentals of Drug and Alcohol Abuse and Dependency	3
PSY 09512	Developmental Psychology of Drug and Alcohol Abuse	3
COUN 26520	Design & Coordination of Developmental Counseling Programs	3
PSY 03518	Psychological Evaluation and Counseling Services to Combat Alcohol and Drug Abuse	3
EDAM 27559	Law and Ethics School Leadership	3
COUN 26597	Intervention and Referral Services/School Teams and Community Resources	3
COUN 26527	Practicum in Counseling in Educational Settings	3
Total Required Credits for the Program		24 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark, and/or Thesis Requirements

None

Minimum Required Grades and Cumulative GPA

The CAGS in Student Assistance Coordination is a Category 1 program.

*For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.***Program Coordinator/Advisor Contact Information****Dr. Zalphia Wilson-Hill****Herman D. James Hall****wilson-hill@rowan.edu****Certificates of Graduate Study (Non-degree)****Certificate of Graduate Study in Autism Spectrum Disorders (COGS)**

The Certificate of Graduate Study in Autism Spectrum Disorders program is designed to enable school professionals and behavior specialists to develop their knowledge about students on the autism spectrum and to learn about instructional strategies for this rapidly expanding population. Students will understand the definition and causes of the various syndromes within the broad category of Autism Spectrum Disorders (ASD). They will also learn how to design and modify instruction for individuals with ASD to address their learning, social, behavior, and communication needs.

Program Requirements**Required Courses***(s.b.: semester hours/credit hours)*

<u>Course #</u>	<u>Course Title</u>	<u>S.H.</u>
PSY 02520	Assessment & Interventions for Social Skills & Relationships in Children	3
PSY 02600	ABC's of ABA	3
SELN 10582	Communication Skills for Students with Disabilities	3
SELN 10590	Introduction to Autism Spectrum Disorders	3
SELN 10591	Instructional Methods for Students with Autism Spectrum Disorders	3

Total Required Credits for the Program

15 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark, and/or Thesis Requirements

None

Minimum Required Grades and Cumulative GPA

The Certificate of Graduate Study in Autism Spectrum Disorders is a Category 3 program.

*For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.***Program Coordinator/Advisor Contact Information****Amy Accardo****Herman D. James Hall****856.256.4708****accardo@rowan.edu****Certificate of Graduate Study in Early Childhood Coaching and Technical Assistance (COGS)**

Specific program objectives are: 1) Develop graduates with theoretical, policy and research, and practical knowledge base in early childhood technical assistance and leadership, 2) Develop graduates with strong knowledge base in critical perspectives in coaching and technical assistance in early childhood education and 3) Develop graduates with the knowledge and skills necessary to guide continuous quality improvement and to advocate for early childhood communities in larger contexts.

Program Requirements**Required Courses**

15 s.h.

(s.b.: semester hours/credit hours)

Course #	Course Title	S.H.
ECED 23521	Continuous Quality Improvement in Early Childhood: Research and Policy	3
ECED 23522	Critical Perspectives on Coaching and Mentoring in Diverse Early Childhood Settings	3
ECED 23523	Access and Equity: Culturally Responsive Practices in Technical Assistance	3
ECED 23524	Implementation Science and Quality Improvement Initiatives	3
ECED 23526	Developing Expertise as an Agent of Change within Early Childhood Systems	3
Total Required Credits for the Program		15 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark, and/or Thesis Requirements

None

Minimum Required Grades and Cumulative GPA

The Certificate of Graduate Study in Early Childhood Coaching and Technical Assistance is a Category 2 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Advisor Contact Information**Jennifer Cortes****Herman D. James Hall****cortesj@rowan.edu****Certificate of Graduate Study in Early Childhood Education (COGS)**

The Certificate of Graduate Study program is a graduate level certificate program offered to teachers with teaching certificates in another grade level such as Subject Matter Education or Elementary Education and enables them to add an endorsement for teaching at P-3 grade level†.

Program Requirements**Required Courses***(s.h.: semester hours/credit hours)*

Course #	Course Title	S.H.
ECED 23511	Supporting Social/Emotional Development of Young Children	3
ECED 23512	Exploring the World: Literacy, Social Studies & Creative Experience in Early Childhood	3
ECED 23513	Assessment in Early Childhood Education	3
ECED 23514	Family, Community, and Professional Ethics	3
ECED 23515	Young Scientists: Science, Technology, Engineering, and Math Experiences in Early Childhood	3

Total Required Credits for the Program 15 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark, and/or Thesis Requirements

None

Minimum Required Grades and Cumulative GPA

The Certificate of Graduate Study in Early Childhood Education is a Category 2 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Advisor Contact Information**Zeynep Isik-Ercan****Herman D. James Hall****856.256.4500 x4754****ercan@rowan.edu**

Certificate of Graduate Study in Early Childhood Special Education (COGS)

The Certificate of Graduate Study (COGS) in Early Childhood Special Education is designed for education professionals to enhance their knowledge and skills in early childhood special education, expand their employment opportunities, and increase services to young children with disabilities and their families.

The program is ideal for early intervention therapists and instructors, professionals with diverse backgrounds who currently work in early childhood special education settings, and family members who may want additional expertise or training in this area of study.

Students are prepared to support infants and toddlers in home-based and/or center-based Early Intervention, preschoolers (3-5) in preschool special education, and children with suspected but not yet diagnosed delays or disabilities across various birth-5 settings.

This program will not lead to certification*. Teachers in the state of New Jersey may apply to the Certificate of Graduate Study in Early Childhood Special Education program through the New Jersey Teacher Outreach Program (NJTOP®).

* All courses in this COGS may be applied as an approved track/specialization within the MA in Special Education (note: separate eligibility and application process for the MA will apply).

Program Requirements

Required Courses

15 s.h.

(s.h.: semester hours/credit hours)

<u>Course #</u>	<u>Course Title</u>	<u>S.H.</u>
ECSE 10500	Characteristics of Young Children with Disabilities (birth - five) and their Families	3
ECSE 10501	Methods for Assessing and Teaching Infants and Toddlers with Disabilities	4
ECSE 10502	Methods for Assessing and Teaching Preschool Children (3-5) with Disabilities	4
ECSE 10503	Supporting Diverse Families, Community Partnerships, and Transitions	3
ECSE 10504	Self Study Project Inquiry in Early Childhood Special Education	1

*ECSE 10500 is the prerequisite for ECSE 10501, ECSE 10502, ECSE 10503, and ECSE 10504.

Total Required Credits for the Program

15 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark, and/or Thesis Requirements

ECSE 10504: Self Study Project Inquiry in Early Childhood Special Education

This course provides a culminating capstone experience for graduate students enrolled in the Early Childhood Special Education Certificate of Graduate Study (ECSE COGS). Students will work closely with a faculty member to self-select a timely area of inquiry in the ECSE field that directly or indirectly impacts inter-disciplinary professionals, families, and/or young children with suspected or diagnosed disabilities across diverse birth-five settings. This self-study will result in the production of a literature review, a service project/outreach initiative, and formal information-sharing/presentation with relevant stakeholders. Students will incorporate one or more theoretical frameworks and content from each of the ECSE COGS courses and will be evaluated on rubrics that assess both content and quality.

Students must maintain a "B" average across all ECSE COGS coursework and high ratings on devised disposition checklists from supervising site director and/or lead teacher during each course where field assignments are completed.

Minimum Required Grades and Cumulative GPA

The Certificate of Graduate Study in Early Childhood Special Education is a Category 2 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Advisor Contact Information

Nicole M. Edwards, Ph.D.

Herman D. James Hall

856.256.4500 ext. 53797

edwardsn@rowan.edu

Certificate of Graduate Study in Educational Technology (COGS)

The Certificate of Graduate Study in Educational Technology aims to provide educators with the knowledge and proficiencies needed to incorporate existing and emerging educational technologies into their classroom. Individuals completing this program will not only be skilled in the use of computers in the classroom, they will be prepared to assume leadership roles in educational technology in preschool to twelfth grades.

Program Requirements

The Educational Technology Certificate of Graduate Study is a part-time program offered in an accelerated online format. It requires the completion of 15 graduate semester hours (5 courses) in 2.5 consecutive semesters. The courses that make up the Educational Technology Certificate of Graduate Study also serve as content area courses for the Master of Education (M.Ed.) in Teacher Leadership program. Therefore, the semester hours earned in the Certificate of Graduate Study are applicable to the Master of Education Degree requirements. In order to be admitted to the Master of Education Degree program, students must submit a separate application.

Required Courses

15 s.h.

(s.h.: semester hours/credit hours)

Course #	Course Title	S.H.
EDTC 33510	Emerging Technology Tools and the Curriculum	3
EDTC 33580	Introduction to Educational Technology	3
EDTC 33584	Digital Citizenship in 21st Century Schools	3
EDTC 33585	Internet in the Classroom	3
SPED 08540	Technology for Students with Special Needs	3

Total Required Credits for the Program

15 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark, and/or Thesis Requirements

None

Minimum Required Grades and Cumulative GPA

The Certificate of Graduate Study in Educational Technology is a Category 2 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowan.edu/policies.

Program Coordinator/Advisor Contact Information

Yu-Chun Kuo, Ph.D.

Herman D. James Hall

856.256.5796

kuo@rowan.edu

Certificate of Graduate Study in English as a Second Language (COGS)

There is a critical need for highly qualified teachers trained to work with the growing numbers of English language learners in United States schools. This program is open to candidates who possess NJ standard or CEAS instructional certification in other areas, as well as to alternate route candidates who are eligible for NJ instructional certification and have already completed their clinical practicum. The program is approved by the New Jersey State Department of Education†.

Specific program objectives are to: (1) develop multifaceted understandings of the unique needs, challenges, and experiences of ELL students in order to advocate for their success; (2) develop curriculum, including lesson and unit plans, that integrates language and content for ELL students at various levels of English proficiency; and (3) instruct ELL students using cutting-edge, research-based teaching methods.

The ESL Certificate of Graduate Study also represents an opportunity for prospective teachers of ESL to continue their professional development in the Master of Education in Teacher Leadership and in the Master of Arts in Higher Education, Instructional Track.

Program Requirements

Required Courses

16 s.h.

(s.h.: semester hours/credit hours)

Course #	Course Title	S.H.
BLED 40510	Issues of Language & Cultural Diversity in ESL/Bilingual Programs	3
BLED 40512	Linguistics & Second Language Acquisition for Teaching Languages	3
BLED 40515	Language, Culture & Communication	3

BLEED 40520	Planning, Teaching & Assessment in ESL	3
BLEED 40522	Integrating Language & Content in ESL/Bilingual Education	3
BLEED 40523	Practicum in Teaching ESL	1
Total Required Credits for the Program		16 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark, and/or Thesis Requirements

None

Minimum Required Grades and Cumulative GPA

The Certificate of Graduate Study in English as a Second Language is a Category 1 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Advisor Contact Information**Brooke Hoffman****Herman D. James Hall****856.256.4750**<https://www.rowan.edu/home/education/departments>

Certificate of Graduate Study in Enhancing Instruct'I Practices in Health Professions Ed. (COGS)

Healthcare professions educators, in addition to content expertise in clinical areas, must attain pedagogical and curriculum development skills absent from standard medical education training. The Certificate of Graduate Study in Enhancing Instructional Practices in Health Professions Education develops medical school faculty members and other health professionals as master educators and academic leaders. These professionals learn an array of clinical teaching strategies, as well as adult learning or andragogy, written and clinical assessment, curriculum/program development and management, and teaching and communicative proficiency. The certificate develops students' effectiveness in the field of health professions education, benefiting their students and, ultimately, patients and the healthcare system.

Program Requirements

The program consists of 4 graduate courses (12 s.h)

Required Courses

12 s.h.

(s.b.: semester hours/credit hours)

Course #	Course Title	S.H.
CURR 29503	Teaching Adult Learners	3
EDAM 27742	The Curriculum of Higher Education	3
HIED 06610	Assessment & Evaluation in Health Professions Education	3
HIED 06611	Applied Instructional Techniques & Practices	3

Total Required Credits for the Program

12 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark, and/or Thesis Requirements

None

Minimum Required Grades and Cumulative GPA

The Certificate of Graduate Study in Enhancing Instructional Practices in Health Professions Education is a Category 3 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Advisor Contact Information**Tyrone McCombs****Herman D. James Hall****856.256.4500 ext. 53666****mccombst@rowan.edu**

Certificate of Graduate Study in Interprofessional Health Organizations Leadership (COGS)

This Certificate of Graduate Study (COGS) has been developed within the existing Higher Education program with the goal of developing medical school faculty members and other health professionals as master educators and academic leaders. These professionals will learn about leadership, organizational change and development, as well as continuous improvement and professional development.

The Certificate of Graduate Study also emphasizes creating learning organizations as well as understanding and developing organizational cultures. These courses will help participants develop their effectiveness in the field of health professions educational leadership, benefiting their students and, ultimately, patients and the healthcare system. The Certificate of Graduate Study has been developed within the Higher Education program housed in the College of Education, with the help and input of Rowan medical faculty and administrators from both Camden Medical School of Rowan University and Rowan School of Osteopathic Medicine, to ensure that it addresses the needs of health professionals.

Program Requirements

The program consists of 4 graduate courses (12 semester hours). Two courses are currently offered in the Educational services and Leadership Department and Master of Arts in Higher Education Program. The two others are proposed as a component of this Certificate of Graduate Study.

Required Courses

12 s.h.

(s.b.: semester hours/credit hours)

<u>Course #</u>	<u>Course Title</u>	<u>S.H.</u>
EDSU 28715	Leadership Theory	3
HIED 06612	Org. Development: Understanding the Structure, Function, & Cultures of Health Orgs.	3
HIED 06613	Professional Development: Promoting a Culture of Continuous Improvement in Health Orgs.	3
EDAM 27625	Change in Higher Education	3

Total Required Credits for the Program

12 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark, and/or Thesis Requirements

None

Minimum Required Grades and Cumulative GPA

The Certificate of Graduate Study in Interprofessional Health Organizations Leadership is a Category 3 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Advisor Contact Information

Tyrone McCombs
Herman D. James Hall
856.256.4500 ext. 53666
mccombst@rowan.edu

Certificate of Graduate Study in Learning Disabilities (COGS)

The Certificate of Graduate Study in Learning Disabilities Program (COGS in LD) is designed for teachers who are looking to broaden their knowledge and skills to better serve students with learning difficulties. The goals and objectives for the program include the further development of educational leaders in supporting students, parents, and colleagues in the field. Graduate students complete the Certificate of Graduate Study in Learning Disabilities with knowledge and skills in the current research on learning disabilities and methods so as to more effectively serve individuals with learning disabilities; and, in this program they are trained to be educational collaborators and leaders, to be change agents in their classrooms, and school districts.

Courses in this program may be used to satisfy some of the course requirements in Rowan University's Master of Arts in Special Education program, which can lead to certification as a Learning Disabilities Teacher Consultant. For more information, please visit www.rowanu.com/programs.

Program Requirements

Required Courses

15 s.h.

(s.b.: semester hours/credit hours)

Course #	Course Title	S.H.
LDTC 18503	Foundations of Learning Disabilities	3
LDTC 18510	Applied Learning Theories	3
LDTC 18520	Neurological Basis of Educational Disorders	3
READ 30530	Teaching Reading to Exceptional Children	3
SPED 08555	Educational Psychology of the Exceptional Learner	3

Total Required Credits for the Program 15 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark, and/or Thesis Requirements

None

Minimum Required Grades and Cumulative GPA

The Certificate of Graduate Study in Learning Disabilities is a Category 1 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Advisor Contact Information

Ethel Lippman

Director, Assessment and Learning Center

856.256.4512

lippman@rowan.edu

Certificate of Graduate Study in Reading (COGS)

This program meets the increasing need for highly qualified practitioners in the area of reading. This program benefits classroom teachers K-12 who wish to increase their knowledge of literacy instruction. It offers a strong pedagogical and theoretical core from the reading discipline that will enable teachers to pursue an advanced degree. The Certificate of Graduate Study in Reading does not lead to any state certification. All courses carry over to the Master of Arts in Reading as appropriate.

Program Requirements

Required Courses 15 s.h.

(s.h.: semester hours/credit hours)

Course #	Course Title	S.H.
READ 30515	Teaching Reading & Writing Across the Grades	3
READ 30520	Content Area Literacy	3
READ 30530	Teaching Reading to Exceptional Children	3
READ 30535	Word Study: Phonics, Spelling & Vocabulary Instruction	3
READ 30545	Using Multicultural Literature in the K-12 Reading & Writing Classroom	3

Total Required Credits for the Program 15 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark, and/or Thesis Requirements

None

Minimum Required Grades and Cumulative GPA

The Certificate of Graduate Study in Reading is a Category 2 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Advisor Contact Information

Valarie Lee

Herman D. James Hall

856.256.4500 ext. 53090

leev@rowan.edu

Certificate of Graduate Study in Reading/Writing Literacy (COGS)

This program meets the increasing need for highly qualified practitioners in the area of Reading/Writing Literacy as required by the Common Core English and Language Arts Standards. This program benefits classroom teachers K-12 who wish to increase their knowledge of literacy instruction. Courses in this program also enable teachers to apply for National Board Certification by building content area knowledge in reading and writing. The Certificate of Graduate Study in Reading/Writing Literacy does not lead to any state certification. All courses carry over to either the Master of Arts in Writing or the Master of Arts in Reading as appropriate.

Program Requirements

Required Courses

15 s.h.

(s.h.: semester hours/credit hours)

<u>Course #</u>	<u>Course Title</u>	<u>S.H.</u>
Students can select any 5 courses from the courses listed below:		
MAWR 01549	Issues in Composition	3
MAWR 01556	Assessment of Writing	3
READ 30515	Teaching Reading & Writing Across the Grades	3
READ 30520	Content Area Literacy	3
READ 30535	Word Study: Phonics, Spelling & Vocabulary Instruction	3
READ 30552	Selected Topics in Reading	3
MAWR 01618	Special Topics in Writing	3

Total Required Credits for the Program

15 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark, and/or Thesis Requirements

None

Minimum Required Grades and Cumulative GPA

The Certificate of Graduate Study in Reading/Writing Literacy is a Category 2 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Advisor Contact Information

Valarie Lee

Herman D. James Hall

856.256.4500 ext. 53090

leev@rowan.edu

Certificate of Graduate Study in Special Education (COGS)

The Certificate of Graduate Study (COGS) in Special Education is designed for general education teachers who wish to increase their knowledge of special education, as well as special education teachers who wish to pursue further coursework at the graduate level. The goal of this certificate is to provide teachers with an overview of the salient issues in special education, as well as opportunities to focus on the essential aspects of evidence-based practices.

The six course sequence and corresponding field experiences are aligned with the professional standards set forth by the Council for Exceptional Children, as well as the New Jersey Department of Education†; collectively they ensure program graduates acquire the essential knowledge, skills, and dispositions needed to best serve students with disabilities.

This Certificate of Graduate Study is offered in an online format and can be used to satisfy the Content Certificate of Graduate Study requirement in the Master of Education in Teacher Leadership program. Teachers who successfully complete the Certificate of Graduate Study coursework can also opt to continue pursuit of the Teacher of Students with Disabilities Graduate Endorsement Program (see a department representative for additional details).

Program Requirements

Required Courses

15 s.h.

(s.h.: semester hours/credit hours)

<u>Course #</u>	<u>Course Title</u>	<u>S.H.</u>
READ 30530	Teaching Reading to Exceptional Children	3
SELN 10581	Implementing Positive Behavior Strategies	3
SELN 10585	Educational Assessment in Special Education	3
SPED 08515	Curriculum, Instruction, Transition in Special Education	3

SPED 08555 Education and Psychology of Exceptional Learners 3
Total Required Credits for the Program 15 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark, and/or Thesis Requirements

None

Minimum Required Grades and Cumulative GPA

The Certificate of Graduate Study in Special Education is a Category 2 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Advisor Contact Information**Nicole M. Edwards, Ph.D.****Herman D. James Hall****856.256.4500 ext. 53797****edwardsn@rowan.edu****Certificate of Graduate Study in Teaching and Learning (COGS)**

The Certificate of Graduate Study (COGS) in Teaching and Learning is designed for teachers who want to develop and hone their leadership skills but wish to remain in the classroom. Candidates become successful mentor/master teachers by utilizing data in instructional and pedagogical decision-making, supporting and delivering job-embedded professional learning, and evaluating programs aimed at improving schooling for all P-12 learners, their families, and the community. The COGS in Teaching and Learning also serves as the core courses for the M.Ed. in Teacher Leadership and is fully online.

The COGS in Teaching and Learning has five goals aligned to the Teacher Leader Model Standards (2012). Through this program, candidates will:

- Foster a collaborative culture to support educator development and student learning.
- Access and use research to improve teacher practice and student achievement and outcomes.
- Promote professional learning and facilitate improvements in instruction for continuous improvement within their schools.
- Promote the use of assessments and data for school and district improvement.
- Improve outreach and collaboration with families through advocating for student learning and the profession.

Program Requirements

Required Courses 18 s.h.

(s.b.: semester hours/credit hours)

Course #	Course Title	S.H.
CURR 29580	Fundamentals of Curriculum Development	3
EDUC 01624	Educational Change	3
ELEM 02511	Learning Community Classrooms	3
ELEM 02550	Analysis of Classroom Teacher Behaviors	3
LDTC 18510	Applied Theories of Learning	3
READ 30566	Researching Classroom Practice	3

If students hold National Board certification, two courses in the Core/Teaching and Learning Certificate of Graduate Study will be waived.

Total Required Credits for the Program 18 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark, and/or Thesis Requirements

None

Minimum Required Grades and Cumulative GPA

The Certificate of Graduate Study in Teaching and Learning is a Category 2 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Advisor Contact Information

John J. Quinesso, Jr.

Department of Interdisciplinary and Inclusive Education

Herman D. James Hall

856.256.4500 ext. 53814

quinesso@rowan.edu

Certifications, Endorsements & Related Post-Baccalaureate Programs (Non-Degree)**Learning Disabilities Teacher-Consultant Certification (LDTC)**

Learning Disabilities Teacher-Consultants work in collaboration with other members of a child study team to determine eligibility for special services. LDT-Cs also consult with parents, teachers, and other school personnel to provide research-based instructional strategies to assist pupils struggling academically.

Graduates of the Master of Arts in Learning Disabilities Program at Rowan University earn the Learning Disabilities Teacher-Consultants certificate (an Educational Services credential) concomitantly with the Master of Arts in Learning Disabilities degree. **However, applicants who have earned a Master's degree in learning disabilities from another institution or a Master's degree in a related field (e.g., special education or reading) may apply to the Learning Disabilities Teacher-Consultant (LDT-C) certificate-only program.**

This program meets all State of New Jersey requirements for the LDT-C certificate†. It also received national recognition for accreditation through CEC for educational diagnosticians.

Program Requirements**Required Courses**

33 s.h.

(s.h.: semester hours/credit hours)

Course #	Course Title	S.H.
LDTC 18503	Foundations of Learning Disabilities	3
LDTC 18504	Assessment of Learning Disabilities	3
LDTC 18505	Correction of Learning Disabilities	3
LDTC 18510	Applied Theories of Learning	3
LDTC 18516	Applied Tests and Measurements	3
LDTC 18520	Neurological Bases of Educational Disorders	3
LDTC 18525	Advanced Assessment Techniques	3
LDTC 18650*	Clinical & Field Experiences in Learning Disabilities	6
READ 30530	Teaching Reading to Exceptional Children	3
SPED 08555	Education & Psychology of Exceptional Learners	3

* Matriculated students only and only with permission of program advisor.

Total Required Credits for the Program

33 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark, and/or Thesis Requirements

None

Minimum Required Grades and Cumulative GPA

The Learning Disabilities Teacher/Consultant Certification (LDTC) is a Category I program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Advisor Contact Information

Ethel Lippman

Assessment and Learning Center

856.256.4512

lippman@rowan.edu

Supervisor Certification

This program meets the requirements specified by the state of New Jersey† and is designed to serve the person who has already earned a Master's degree in some field and who wants to qualify as a supervisor in the public schools: one who is charged with authority and responsibility for the continuing direction and guidance of the work of instructional personnel.

Program Requirements

Required Courses 12 s.h.

(s.b.: semester hours/credit hours)

Course #	Course Title	S.H.
CURR 29580	Fundamentals of Curriculum Development	3
CURR 29590	Curriculum Evaluation	3
EDSU 28522	Instructional Leadership & Supervision	3
EDSU 28546	Educational Organizations & Leadership	3

Total Required Credits for the Program 12 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark, and/or Thesis Requirements

None

Minimum Required Grades and Cumulative GPA

The Supervisor Certification is a Category I program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Advisor Contact Information

Miguel Greenup

Herman D. James Hall

856.256.4500 ext. 3637

greenup@rowan.edu

Graduate Endorsement: Bilingual/Bicultural Education

This program responds to the need for highly qualified teachers prepared to teach content in both the student's native language and in English to the growing numbers of English language learners in the schools. The program, approved by the New Jersey State Department of Education†, includes 12 credits hours of formal instruction in the following topics: linguistics, language acquisition, development of literacy skills for the second language learner, methods of teaching content in bilingual education, and theory and practice of bilingual education. Specific objectives emphasize the application of theory to practice, development of long-range and short-range plans that integrate language and content, design of appropriate authentic assessment instruments, and use of technology to research content and instructional techniques.

Program Requirements

Required Courses 12 s.h.

(s.b.: semester hours/credit hours)

Course #	Course Title	S.H.
BLED 40510	Issues of Language & Cultural Diversity in ESL/Bilingual Programs	3
BLED 40512	Linguistics & Second Language Acquisition for Teaching Languages	3
BLED 40521	Teaching Bilingual Education: Process & Practice	3
BLED 40522	Integrating Language & Content in the ESL/Bilingual Education Classroom	3

Total Required Credits for the Program 12 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark, and/or Thesis Requirements

None

Minimum Required Grades and Cumulative GPA

The GE in Bilingual/Bicultural Education is a Category 1 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Advisor Contact Information

Brooke Hoffman

Herman D. James Hall

856.256.4750

<https://www.rowan.edu/home/education/departments>

Graduate Endorsement: Teacher of Students with Disabilities

This program is designed for individuals who possess a standard instructional certificate, or possess/are eligible for CEAS and wish to obtain Teacher of Students with Disabilities certification in New Jersey†. The purpose of the program is to provide advanced studies focusing on educational, psychological and sociological needs of children and youth with disabilities. Each course in the program builds on the earlier knowledge and skills gained in the candidates initial certification programs.

The coursework and related field experiences are designed to foster an understanding of students with special learning needs, combined with pedagogical skills to accommodate these needs and provide appropriate curriculum modifications when necessary. Upon completing the program, candidates will be recommended for certification†.

Candidates who want to pursue a Master's degree may transfer 9 credit hours to the Master of Arts in Special Education program and must apply through Rowan Global Student Services.

Students who have completed the Certificate of Graduate Study in Special Education and want to pursue the certification of Teacher of Students with Disabilities need to reapply for this endorsement program.

Program Requirements**Required Courses**

21 s.h.

(s.h.: semester hours/credit hours)

Course #	Course Title	S.H.
SELN 10581	Implementing Positive Behavior Strategies	3
SELN 10585	Educational Assessment in Special Education	3
SELN 10592*	Clinical Seminar in Special Education	2
SPED 08515	Curriculum, Instruction, Transition in Special Education	3
SPED 08520*	Clinical Experiences in Special Education	4
READ 30530	Teaching Reading to Exceptional Children	3
SPED 08555	Education and Psychology of Exceptional Learners	3

* Taken after success completion of all other Graduate Endorsement courses.

Note: Students must complete an application on TK20 for SPED 08520.

Total Required Credits for the Program

21 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark, and/or Thesis Requirements

Successful completion of comprehensive exam

Minimum Required Grades and Cumulative GPA

The GE in Teacher of Student with Disabilities is a Category 3 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Advisor Contact Information

Nicole Edwards

Herman D. James Hall

856.256.4500 ext. 53855

edwardsn@rowan.edu

Post-Baccalaureate Certification: Teacher of Reading

The Post-Baccalaureate Program in Teacher of Reading is an endorsement program that leads to certification as a Teacher of Reading†. It is available to students who have already been admitted to teacher certification programs or who already hold New Jersey teaching certificates. Reading certification is granted only when a student has fulfilled all requirements for a major teaching certificate. To matriculate, students must complete an introductory reading course and satisfy the requirements listed below.

The program requires students to successfully complete 30 semester hours of coursework in reading and reading-related areas to obtain Teacher of Reading Certification. Students may fulfill the requirement for the New Jersey Teacher of Reading Endorsement† with undergraduate coursework, graduate coursework, or a combination of the two.

Program Requirements

Reading Theory and Pedagogy

12 s.h.

(s.h.: semester hours/credit hours)

Choose from the following:

<u>Course #</u>	<u>Course Title</u>	<u>S.H.</u>
READ 30311	Literacy Pedagogy I	3
READ 30319	Teaching Reading & Writing in the Content Area (for Subject Matter Education)	3
READ 30320	Language Development & Emergent Literacy (for Early Childhood Education)	4
READ 30350	Using Children's Literature in the Reading/Writing Classroom	3
READ 30351	Literacy Pedagogy II	2
and ELEM 02338	Practicum in Mathematics & Literacy	1
READ 30347	Phonics & Spelling	3
READ 30515	Teaching Reading and Writing Across the Grades	3
READ 30520	Content Area Literacy	3
READ 30530	Teaching Reading to the Exceptional Child	3
READ 30535	Word Study: Phonics, Spelling & Vocabulary Instruction	3
READ 30545	Using Multicultural Literature in the K-12 Reading & Writing Classroom	3

Application through Tutoring

6 s.h.

Choose from the following:

<u>Course #</u>	<u>Course Title</u>	<u>S.H.</u>
READ 30421	School Reading Problems	3
READ 30451	Supervised Clinical Practice	3
READ 30550	Diagnosis of Remedial Reading Problems	3
READ 30560	Correction of Remedial Reading Problems	3
READ 30570	Clinical Experiences in Reading	6

Core/Supporting Courses

12 s.h.

Choose from the following:

<u>Course #</u>	<u>Course Title</u>	<u>S.H.</u>
EDUC 01272	Teaching in Learning Communities II	2
ELEM 02539	Contemporary Curriculum Processes/Elementary Language Arts	3
FNDS 21230	Characteristics of Knowledge Acquisition	3
PSY 22512	Educational Psychology	3
PSY 22586	Psychology of Motivation & Learning	3
READ 30120	Literacies in Today's World	3
SECD 03350	Teaching Students of Linguistic & Cultural Diversity	1
SPED 08130	Human Exceptionality	3
WA 01401	Writer's Mind	3
WA 01358	Writing and Craft for Elementary Students	3

Total Required Credits for the Program

30 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark, and/or Thesis Requirements

None

Minimum Required Grades and Cumulative GPA

The Post-Baccalaureate Certification in Teacher of Reading is a Category 2 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Advisor Contact Information

Dr. Marjorie E. Madden

2065 Herman D. James Hall

856.256.4772

Madden@rowan.edu

Post-Baccalaureate Certification: Teacher of Students with Disabilities

This program leads to the Endorsement in Teacher of Students with Disabilities and is available to students who have completed teacher certification programs and/or who already possess initial New Jersey teaching certification†. The program requires students to successfully complete 27 semester hours of coursework in Special Education and Special Education-related areas to obtain the Teacher of Students with Disabilities Endorsement from the NJ State DOE†. Please note that most classes require a 20-hour field placement component in an approved setting; several of the courses in the program are bundled and must be taken together. The Teacher of Students with Disabilities Endorsement will be granted by the NJ State DOE† only when a student has fulfilled all requirements for the program, including taking and passing the Praxis II exam for Special Education (5354) and the successful completion of Clinical Practice/Clinical Seminar.

Program Requirements**Required Courses**

27 s.h.

(s.h.: semester hours/credit hours)

Course #	Course Title	S.H.
READ 30351	Literacy Pedagogy II	2
SPED 08130	Human Exceptionality	3
SPED 08307	Assessment of Students with Exceptional Learning Needs (ELNs)	3
SPED 08308	Assistive Technology & Transition Planning for Students with ELNs	3
SPED 08316	Differentiated Instruction in the Inclusive Classroom	2
or INCL 02330	Differentiating Instruction in the Inclusive Classroom	2
SPED 08350	TOSD Clinical Experience I	1
SPED 08351	TOSD Clinical Experience II	1
SPED 08360	Positive Behavioral Support Systems	3
SPED 08415	Specialized Instruction for ELNs	3
SPED 08445*	Clinical Seminar in Special Education	2
SPED 08450*	Clinical Practice in Special Education	4

* Taken after successful completion of all other Post-Baccalaureate: Teacher of Students with Disabilities courses.

Note: Students who are currently matriculated in the Bachelor of Arts in Education Concentration: Early Childhood Education (P-3) program should consult with their Academic Advisor regarding specific requirements.

Total Required Credits for the Program

27 s.h.

Foundation Courses

Successful completion of READ 30301 Literacy Pedagogy I, or equivalent course as determined by the department.

Graduation/Exit, Benchmark, and/or Thesis Requirements

Benchmarks: *Successful completion of all benchmarks is required for continuation in and graduation from the program. Details regarding benchmarks' timing and assessments will be shared with the student throughout the program by the Academic Advisor.*

Benchmark I:

- *Timing:* Occurs after the completion of 22 prescribed credits
- *Requirements:* Candidates must achieve passing scores on the Praxis I, Praxis II: Subject, and Praxis II: Special Education.
- *Options:* If the student does not successfully pass the benchmark, then the student is able to re-take Assessment Exam or any incomplete coursework, until such time as benchmark is passed or student is made inactive.

Minimum Required Grades and Cumulative GPA

The Post-Baccalaureate in Teacher of Students with Disabilities is a Category 2 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Advisor Contact Information

Alicia Drelick, Ed.D.

3065 Herman D. James Hall

drelick@rowan.edu

Post-Baccalaureate Certification: School Nursing

The Post-Baccalaureate School Nursing Certification Program is designed to build upon the baccalaureate prepared registered nurse's varied educational and experiential foundation of previously acquired knowledge, skills, and attitudes for the enhancement of the nurse's professional performance in the school setting. A dual preparation in health and education best qualifies school nurses for participation in the intraprofessional and interdisciplinary aspects of school health.

The Post-Baccalaureate School Nursing Certification Program reflects a curriculum that requires students to matriculate into the program, have a baccalaureate degree from an accredited college or university, a current New Jersey professional registered nurse (RN) license issued by the New Jersey Board of Nursing and current certificates in cardiopulmonary resuscitation (CPR) and automated external defibrillators (AED).

The curriculum permits students to become eligible for the New Jersey Standard Educational Services Certificate with a School Nurse Endorsement†. It is a non-degree post-baccalaureate certification program designed to prepare registered nurses with the course requirements to meet the mandates of the New Jersey Administrative Code (NJAC 6A: 9-13.3) and with the NASN Standards of Professional School Nursing Practice and Standards of Care.

Program Requirements**Required Courses**

18 s.h.

(s.h.: semester hours/credit hours)

Course #	Course Title	S.H.
SNUR 92407	School & Family Issues for Children with Ongoing Health Care Needs	3
SNUR 92430	Methods & Materials in Health Teaching for School Nurses	3
SNUR 92444	Practicum in School Nursing	3
SNUR 92445	Internship in Health Teaching for School Nursing	3
SNUR 92466	School Health Services	3
SPED 08130	Human Exceptionality	3

Total Required Credits for the Program

18 s.h.

Foundation Courses

Eligible applicants must have successfully completed the following undergraduate foundation courses at an accredited institution. During the admissions process, the School Nursing Academic Advisor will determine foundation course equivalencies and how any unfinished undergraduate foundation courses can be scheduled concurrently with post-baccalaureate enrollment. If applicable, official notification of any unfinished foundation courses will be included in the applicant's official admission decision letter from Rowan University.

- FC-1. NURS 03401 Community Health Nursing (3.0 s.h.)
- FC-2. NURS 03303 Health Assessment (3.0 s.h.)

Graduation/Exit, Benchmark, and/or Thesis Requirements

None

Minimum Required Grades and Cumulative GPA

The Post-Baccalaureate in School Nursing Certification is a Category 1 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Advisor Contact Information

Patricia Shaw

shawp@rowan.edu

Undergraduate Endorsement: Teacher of Driver Education

This program is designed for those who possess a Standard New Jersey Instructional Certificate or CEAS (Teacher of Health and Physical Education) or are currently enrolled in a health/physical education teacher prep/certification program in the State of New Jersey, and who wish to earn New Jersey Driver Education Teacher Endorsement†. The content includes learning to teach motor vehicle operation and driving environments, and the student development of teaching techniques emphasizing safety, risk perception, and decision-making processes applied in a vehicle. Learning how to instruct others in performing behind-the-wheel driving will be scheduled outside of class time.

Those who matriculate in and successfully complete the Driver Education Course and Endorsement Program will then be recommended by Rowan University to the State of New Jersey for certification as a Teacher of Driver Education†.

Program Requirements

Required Courses

3 s.h.

(s.h.: semester hours/credit hours)

Course #	Course Title	S.H.
HES 00100*	Teaching Concepts of Driver Education	3

* This course is offered in an accelerated format. In addition to face-to-face meetings on Rowan University's main campus and behind-the-wheel sessions, some coursework will be completed online.

Total Required Credits for the Program

3 s.h.

Foundation Courses

Successful completion of an undergraduate-level course in Safety and First Aid, or CPR, First Aid, and AED Certification is highly recommended.

Graduation/Exit, Benchmark, and/or Thesis Requirements

None

Program Coordinator/Advisor Contact Information

Shari Willis

Herman D. James Hall

856.256.4500 ext. 53702

williss@rowan.edu

Undergraduate Degree-Completion Programs

Overview

The following programs lead to a Bachelor's degree. These programs are offered through the Division of Global Learning & Partnerships, but official course descriptions and more about the program as a whole are included in Rowan's Undergraduate Catalog: www.rowan.edu/catalogs.

Bachelor of Arts in Inclusive Education (B.A.)

The Bachelor of Arts in Inclusive Education program prepares teachers to meet the needs of ALL students in the classroom, including those from diverse racial, cultural, linguistic, socioeconomic backgrounds as well as students with disabilities. Candidates will earn two state certifications in this 4-year program – 1) an initial license in Elementary Education and 2) a Teacher of Students with Disabilities (TOSD) endorsement. Graduates of this program will be able to implement content-rich interdisciplinary learning experiences which address the learning needs of all students, utilizing a strengths-based perspective to differentiate and adapt instruction for individual learners. Graduates of this program will also be able to create communities of learning based on social justice and culturally relevant pedagogical practice.

Rowan University requires the completion of 120 semester hours of approved general education and major coursework in order to graduate with a bachelor's degree. The B.A. in Inclusive Education is a full-time program offered on the Glassboro campus, Rowan College at Burlington County, and Rowan College South Jersey campus sites.

General Education

All students starting *before* Fall 2018 and transfer students must complete the University General Education Requirements as described on page 13.

Rowan Core

All first-time Freshmen starting in Fall 2018 or after must complete the University Rowan Core Requirements as described on page 15.

Required Inclusive Education Core Courses

34 s.h.

(s.h.: semester hours/credit hours)

Course #	Course Title	S.H.
SMED 33220	Educational Technology	1
SPED 08360	Positive Behavior Supports	3
SPED 08307	Assessment of Students with Exceptional Learning Needs	3
CASE 90532	Working with Families & Communities	3
SPED 08308	Assistive Technology & Transition Planning	3
SPED 08415	Specialized Instruction	3
SPED 02340	Teaching Students with Autism Spectrum Disorders	3
INCL 02223	Supporting and Teaching Bilingual Students	3
INCL 02445	Clinical Practice	5
SPED 08450	Clinical Practice Special Education	3
INCL 02440	Diversity Seminar	2
SPED 08445	Clinical Seminar	2

Early Childhood Education Track Courses

26 s.h.

(s.h.: semester hours/credit hours)

Course #	Course Title	S.H.
ECED 23211	Seminar: Principles and Pedagogies in the Inclusive Classroom	1
ECED 23220	Contemporary Child in the Family and Community	3
ECED 23320	Building Brains: Competency and Resilience	3
READ 30320	Language Development Emergent Literacy	4
ECED 23322	Planning, Integrating, and Adapting Curriculum: Math and Science	3
ECED 23321	Effective Learning Environments for Diverse Children	3
ECED 23431	Planning Curriculum: Across the Content Areas	3
ECED 23430	Observation/Assessment/ Evaluation of Diverse Learners	3
READ 30347	Phonics and Spelling in the Reading and Writing Classroom	3

Elementary Education Track Courses

26 s.h.

(s.h.: semester hours/credit hours)

Course #	Course Title	S.H.
ELEM 02210	Seminar: Principles and Pedagogies in the Inclusive Classroom	1
READ 30311	Literacy Pedagogy I	3
INCL 02330	Differentiating Instruction in the Inclusive Classroom	2
INCL 02310	STREAM I: Social Studies, ELA, & the Arts	2
INCL 02315	STREAM I: Clinical Experience	1
READ 30351	Literacy Pedagogy II	2
INCL 02320	STREAM II: STEM & Health	3
INCL 02325	Mathematics Strategies in the Inclusive Classroom	2
INCL 02335	STREAM II: Clinical Experience	1
WA 07309	Writing Children's Stories	3
or WA 01358	Writing and Craft for Elementary Students	3
WA 01315	Writing with Technologies	3
or WA 01415	Situating Writing	3
WA 01250	Tutoring Writing	3
or WA 01201	How Writers Read	3
or WA 01350	Rhetorics of Style	3

General Education Courses

60 s.h.

Total Required Credits for the Program

120 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark, and/or Thesis Requirements

None

Program Coordinator Contact Information

Brianne Morettini
Herman D. James Hall
856.256.4500 ext. 53813
morettini@rowan.edu

Henry M. Rowan College of Engineering

Stephanie Farrell, Ph.D.
Interim Dean
Engineering Hall
856.256.5300
lowman@rowan.edu

Steven Chin, Ph.D., P.E.
Vice Dean
Engineering Hall
856.256.5301
chin@rowan.edu

Nidhal Carla Bouaynaya, Ph.D.
Associate Dean for Research and Graduate Studies
Engineering Hall
856.256.5363
Bouaynaya@rowan.edu

Sean Fischer
Associate Dean for External Affairs
Engineering Hall
856.256.5354
fischers@rowan.edu

Mission

The mission of the Henry M. Rowan College of Engineering is to provide programs that are effectively responsive to regional aspirations and that address the needs and the changing characteristics of leading-edge engineers of the future. The College aims to educate students prepared to apply technology for the betterment of society and to serve as global change agents for the future. Rowan University also recognizes that the Henry M. Rowan College of Engineering will aid in the economic and cultural development of southern New Jersey, while generating opportunities for its diverse graduates in local, national and international industries.

Objectives

The objectives of the undergraduate engineering programs are to enable students to:

- Understand and apply the core science and mathematics principles that form the basis of engineering disciplines,
- Work individually and in teams to identify and solve complex engineering problems and develop an understanding of interdisciplinary problem solving,
- Understand and apply advanced technology (computers and laboratory equipment) to solve complex engineering problems,
- Understand the importance of the humanities and social sciences as part of a well-rounded education and the practice of engineering,
- Have a strong sense of the importance of ethics in an engineering setting as well as other aspects of their lives, and
- Develop communication skills so that they can perform engineering functions effectively.

Accreditation

Biomedical, Chemical, Civil, Electrical & Computer, and Mechanical undergraduate programs are ABET accredited. ABET is a professional accrediting organization that is nationally recognized by the Council on Higher Education Accreditation (CHEA). In cooperation with its associated professional and technical societies, ABET has developed criteria, or standards, for the evaluation of educational programs.

The criteria require that the programs demonstrate that graduates have mastered the knowledge and skills required and that the institution has in place a process for continuous improvement. The Engineering Accreditation Commission (EAC) of ABET administers the criteria, conducts the evaluations and accredits the programs.

Departments

The Henry M. Rowan College of Engineering houses the following academic departments: Biomedical Engineering, Chemical Engineering, Civil & Environmental Engineering, Electrical & Computer Engineering, Experiential Engineering Education, and Mechanical Engineering. (Not all departments offer programs through the Division of Global Learning & Partnerships.)

Programs Offered

Engineering programs offered through the Division of Global Learning & Partnerships are listed below in order of degree/program type and then in alphabetical order by program name. Details about each program are then listed within the catalog in the same order. For the most up-to-date information regarding mode of delivery options for your program of interest, please visit www.rowanu.com/programs.

DOCTORAL DEGREES

<u>Program Name</u>	<u>Format/location</u>	<u>Program/Major Codes</u>	<u>Avail FT/PT</u>	<u>Total credits</u>
Doctor of Philosophy in Biomedical Engineering	Face-to-Face/Glassboro	PHD-BIOMEDEN/D902	Full-time	72
Doctor of Philosophy in Engineering	Face-to-Face/Glassboro	PHD-ENGR/D901	Both	72
Concentration Name		Code		
Chemical Engineering		C921		72
Civil & Environmental Engineering		C920		72
Electrical & Computer Engineering		C033		72
Materials Science & Engineering		C923		72
Mechanical Engineering		C922		72

MASTER'S DEGREES

<u>Program Name</u>	<u>Format/location</u>	<u>Program/Major Codes</u>	<u>Avail FT/PT</u>	<u>Total credits</u>
Master of Engineering Management	100% online and accelerated	MEM-ENMAN/G913	Part-time	30
Master of Science in Biomedical Engineering	Face-to-Face/Glassboro	MS-BIOMEDENG/G918	Both	30
Master of Science in Chemical Engineering	Face-to-Face/Glassboro	MS-CHEMENGR/G907	Both	30
Master of Science in Civil & Environmental Engineering	Face-to-Face/Glassboro	MS-CIVENGR/G905	Both	30
Master of Science in Electrical & Computer Engineering	Face-to-Face/Glassboro	MS-ECENGR/G903	Both	30
Master of Science in Engineering	Face-to-Face/Glassboro	MS-ENGR/G901	Both	30
Master of Science in Mechanical Engineering	Face-to-Face/Glassboro	MS-MECHENGR/G904	Both	30

CERTIFICATES OF GRADUATE STUDY (NON-DEGREE)

<u>Program Name</u>	<u>Format/Location</u>	<u>Program/Major Codes</u>	<u>Avail FT/PT</u>	<u>Total Credits</u>
Certificate of Graduate Study in Combat Systems Engineering	Face-to-Face/Glassboro	COG-COMSYEN/G921	Both	12
Certificate of Graduate Study in Construction Management	Online/Glassboro	COG-CNSTRMGT/G106	Both	12
Certificate of Graduate Study in Engineering Analytics and Quality Control	Face-to-Face/Glassboro	COG-ENANAQC/G922	Both	12
Certificate of Graduate Study in Project Management	Face-to-Face/Glassboro	COG-PMGMT/G107	Both	12

UNDERGRADUATE DEGREE COMPLETION

<u>Program Name</u>	<u>Format/Location</u>	<u>Program/Major Codes</u>	<u>Avail FT/PT</u>	<u>Total Credits</u>
Bachelor of Arts in Construction Management	100% online	BA-CMGMT/0914	Part-time	120
Bachelor of Science in Surveying Engineering Technology	Face-to-Face	BS-SURVENG/0920	Both	120

CERTIFICATE OF UNDERGRADUATE STUDY (NON-DEGREE)

<u>Program Name</u>	<u>Format/location</u>	<u>Program/Major Codes</u>	<u>Avail FT/PT</u>	<u>Total credits</u>
Certificate of Undergraduate Study in Construction Management Practices	Online	CUGS_CSTRMGT/U176	Both	12

Admissions

For the most up-to-date information regarding admission requirements, entry points, and application deadlines, please visit www.rowanu.com/programs. Click on your program of interest to be connected to program and admission details.

Academic Program Policy Categories

For the purposes of both the Minimum Satisfactory Academic Progress policy and the Minimum Graduation Requirements policy, post-baccalaureate/graduate academic programs administered by Rowan Global at Rowan University fall into one of three major categories which are identified by their grade requirements as outlined below. (See individual program descriptions for academic categories.)

Category 1: To maintain Minimum Satisfactory Academic Progress in and to successfully graduate from a Category 1 program students must:

- Earn no more than two total “B-“ grades
- Earn no grades lower than a “B-”
- Earn an official cumulative GPA (according to matriculation level) of at least 3.000 on Rowan’s 4.000 scale

Category 2: To maintain Minimum Satisfactory Academic Progress in and to successfully graduate from a Category 2 program students must:

- Earn no grades lower than a “B-”
- Earn an official cumulative GPA (according to matriculation level) of at least 3.000 on Rowan’s 4.000 scale

Category 3: To maintain Minimum Satisfactory Academic Progress in and to successfully graduate from a Category 3 program students must:

- Earn no more than two total C grades of any combination of “C+” or “C.” (C- grades are not acceptable.)
- Earn no grades lower than a “C”
- Earn an official cumulative GPA (according to matriculation level) of at least 3.000 on Rowan’s 4.000 scale

Policy Prior to Fall 2013 Matriculation

The academic review and minimum graduation requirements review policies will be applied to Rowan graduate and post-baccalaureate students who matriculate beginning Fall 2013 or later; however, current students (those matriculated and active before Fall 2013) will be grandfathered under the prior policy/practice, whose grade and GPA requirements are the same as Academic Review Category 3.

Doctor of Philosophy in Biomedical Engineering (Ph.D.)

The Doctor of Philosophy degree in Biomedical Engineering in the Henry M. Rowan College of Engineering (HRCOE) emphasizes intensive, novel research within a flexible graduate curriculum with a core focused on technical fundamentals.

With faculty-mentored biomedical research, students are trained to use engineering approaches to solve a novel contemporary biomedical problem in areas including biomaterials engineering, tissue engineering, biomechanics, biomedical robotics, drug delivery, biomolecule detection, and other emerging areas. Students in the biomedical engineering doctoral program benefit from our close association with physicians at Cooper Medical School of Rowan University and Rowan University School of Osteopathic Medicine, which stimulates translation into the clinic.

With world-class research at the forefront of HRCOE's biomedical engineering discipline, as well as a growing business school on the main campus, HRCOE allows students to take advantage of South Jersey Technology Park at Rowan University, which fosters the translation of applied research into commercial products and processes.

Program Requirements

The Doctor of Philosophy degree in Biomedical Engineering at Rowan University requires the completion of 72 hours of graduate level coursework and research credits as well as the successful completion of a novel research project completed under the mentorship of a faculty advisor culminating in a Doctoral Dissertation. The Doctoral Dissertation should demonstrate the student's ability to effectively apply engineering principles to solve a contemporary biomedical problem.

Coursework:

- Core Courses: Minimum of 15 s.h. (chosen in consult with advisor)
- Elective Courses: Minimum of 15 s.h. (chosen in consult with advisor)
- Research Credits: up to 42 s.h.

Research & Dissertation: Successful defense of Doctoral Dissertation

Biomedical Engineering Core Courses 15 s.h.

Students must choose a minimum of 15 sh from the following bank of courses. An advanced mathematics course is required. Course substitutions can be made with approval of the students Dissertation committee.

Core Courses

(s.h.: semester hours/credit hours)

<u>Course #</u>	<u>Course Title</u>	<u>S. H.</u>
MATH 01515	Engineering Applications of Analysis	3
BME 11610	Biomedical Imaging	3
BME 11590	Advanced Biocompatibility and Immunoengineering	3
BME 11590	Biomaterials Engineering	3
CHE 06586	Adv Engineering Thermodynamics	3
MBS 43751	Fundamentals of Biochemistry and Molecular Biology I	3
MBS 43752	Fundamentals of Cell Biology II	3
BME 11610	Biological Transport Phenomena	3

Biomedical Engineering Elective Courses 15 s.h.

Students must choose 15 sh from the following bank of courses in consultation with their advisor. Please note: The following list of elective courses is not limiting; additional courses may be approved by the academic advisor. Core courses in excess of 15 s.h. count as electives.

Elective Courses

(s.h.: semester hours/credit hours)

<u>Course #</u>	<u>Course Title</u>	<u>S. H.</u>
BME 11590	Advanced Cell Bioelectricity	3
BME 11590	Advanced Mechanobiology	3
BME 11590	Regulatory Strategies in Biomedical Engineering	3
BME 11590	Orthopedic Engineering	3
BME 11602	Writing and Winning Grant Proposal in the Biomedical Field	3
ENGR 01510	Finite Element Analysis	3
ENGR 01511	Engineering Optimization	3
ENGR 01512	Principles of Nanotechnology	3
BIOL 14540	Intro to Biochemistry	3
CEE 08573	Advanced Structural Analysis	3
CEE 08675	Fracture Mechanics	3
CHE 06518	Polymer Engineering	3
CHE 06572	Biomedical Process Eng.	3
CHE 06576	Bioseparation Processes I	3

CHE 06578	Tissue Engineering	3
CHE 06584	Controlled Release Theory	3
ME 10506	Computational Material Science	3
ME 10522	Computational Fluid Dynamics	3
ME 10550	Adv. Solid Mechanics	3
ME 10570	Principles in Biomechanics	3
MATH 01505	Probability and Mathematical Statistics	3
MATH 01512	Complex Analysis I	3
MATH 01521	Nonlinear Differential Equations	3
STAT 02510	Introduction to Statistical Data Analysis	3
STAT 02525	Design and Analysis of Experiments	3

Biomedical Engineering Research Courses 3 s.h.

Research hours are credited for laboratory research leading to a Doctoral Dissertation.

Course #	Course Title	S. H.
ENGR 01799	Ph.D. Dissertation Research	3

Total Required Credits for the Program

72 s.h.

72 credit hours of graduate level coursework and research hours. A minimum of 30 hours must come from core/elective coursework with a minimum of 15 of these coursework hours coming from Biomedical Engineering Core Courses. Credits beyond 30 may come from additional core/elective coursework or Ph.D. Dissertation Research hours (up to 42).

Graduation/Exit/Thesis Requirements

- Passage of Preliminary Exam, Qualifying Exam & Dissertation Defense
- Scholarship including: Peer reviewed journal papers, Conference presentations.
- BME Seminar attendance each semester (BME 11600, 0 credits)
- Safety and responsible conduct of research training
- Completion of two mentored TA assignments
- Students without comparable previous coursework may be required to take undergraduate Biomedical Engineering Core courses in addition to their graduate coursework requirements.

Foundation Courses

For applicants with undergraduate majors that are not Biomedical Engineering or a closely related field, undergraduate courses may be required during matriculation. The following undergraduate courses are strongly recommended: Chemistry I, Physics I, Calculus I, II, and III, Linear Algebra, and Differential Equations.

Minimum Required Grades and Cumulative GPA

The Doctor of Philosophy in Biomedical Engineering is a Category 2 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Graduate Program Chair Contact Information

Vince Beachley
Engineering Hall
856.256.5329
beachley@rowan.edu

Doctor of Philosophy in Engineering (Ph.D.)

Rowan's Doctor of Philosophy in Engineering is a terminal degree program that is specifically designed to meet the changing needs of researchers, scholars and engineers in academia, industry, and government. The primary goal of this program is, therefore, to prepare students for careers in research and/or academics by providing an environment that closely reflects the realities and expectations encountered by today's academicians, professional scientists and research engineers. The program offers a highly flexible inter- and multi-disciplinary curricular structure, allowing concentration in any (or multiple) of the traditional or emerging engineering disciplines. The primary strength of the program is involving students in activities that they are most likely to encounter in real-world academic or industrial settings.

The following concentrations are offered:

- Chemical Engineering/C921
- Civil & Environmental Engineering/C920
- Electrical & Computer Engineering/C912
- Materials Science & Engineering/C923
- Mechanical Engineering/C922

Program Requirements

- The Rowan University Doctor of Philosophy in Engineering program requires the completion of coursework, teaching assistantships, research requirements, dissertation, and dissertation defense.
- For a student who possesses a bachelor's degree, a minimum of 72 semester hours of graduate-level coursework will be required.
- For a student who possesses a master's degree in a related field, a minimum of 42 semester hours (credits) of graduate-level coursework beyond the master's degree will be required. Up to 30 of the credits earned in pursuit of the master's degree may be transferable.
- For specific curriculum requirements for each concentration, refer to their specific web page and/or specific Graduate Program Coordinator.

Required Courses*(s.b.: semester hours/credit hours)*

Course #	Course Title	S. H.
ENGR 01599	Master's Research	No more than 9
ENGR 01600	ToughTalk - Graduate Seminar	0
ENGR 01601	Effective Teaching in Academic & Corporate Environments	3
ENGR 01602	Strategic Technical Writing & Winning Grant Proposals	2
ENGR 01799	Ph.D. Dissertation Research	At least 12
MATH 015XX/STAT 025XX	One approved graduate-level Math class (see list of Approved Graduate Math Courses below)	3

Approved Graduate Courses†*(s.b.: semester hours/credit hours)***General Engineering**

Course #	Course Title	S. H.
ENGR 01510	Finite Element Analysis	3
ENGR 01511	Engineering Optimization	3
ENGR 01512	Principles of Nanotechnology	3

Electrical & Computer Engineering

Course #	Course Title	S. H.
ECE 09504	Special Topics in Electrical & Computer Engineering	3
ECE 09509	Virtual Reality Systems	3
ECE 09521	Fundamentals in Systems Engineering	3
ECE 09523	Advanced Radar Systems	3
ECE 09524	Advanced War Gaming and C4ISR	3
ECE 09525	Advanced Command and Control	3
ECE 09526	Advanced Weapon Systems	3
ECE 09551	Digital Signal Processing	3
ECE 09552	Digital Image Processing	3
ECE 09553	Digital Speech Processing	3
ECE 09554	Theory and Engineering Application of Wavelets	3
ECE 09555	Advanced Topics in Pattern Recognition	3
ECE 09556	Embedded System Design	3
ECE 09560	Artificial Neural Networks	3
ECE 09566	Advanced Topics in Systems, Devices & Alg. in Bioinformatics	3
ECE 09568	Discrete Event Systems	3
ECE 09569	System on Chip Verification	3
ECE 09571	Instrumentation	3
ECE 09572	Advanced Smart Grid	3
ECE 09573	Advanced Smart Sensors	3
ECE 09582	Memristors and Nanoelectronic VLSI	3
ECE 09585	Advanced Engineering Cyber Security	3
ECE 09586	Advanced Portable Platform Development	3
ECE 09590	Advanced Emerging Topics in Computer Engineering	3
ECE 09593	Advanced Emerging Topics in Biomedical Systems	3
ECE 09595	Advanced Emerging Topics in Computational Intelligence, Machine Learning & Data Mining	3
ECE 09651	Detection & Estimation Theory	3

ECE 09504 series constitute the Emerging Topics in Electrical and Computer Engineering sequence. These classes can be taken multiple times when approved by the advisor. Multiple sections of this course are offered during each semester with

different content on emerging topics.

These four courses are also part of the Certificate of Graduate Studies in Combat Systems Engineering (CSE), as well as the Master in Engineering Management with concentration in Combat Systems Engineering. The CSE programs are designed and delivered in cooperation with Lockheed Martin Corporation.

Civil & Environmental Engineering

Course #	Course Title	S. H.
CEE 08504	Engineering Estimating	3
CEE 08507	Prestressed Concrete	3
CEE 08512	Advanced Environmental Treatment Process	3
CEE 08522	Site Remediation Engineering	3
CEE 08531	Solid/Hazardous Water Management	3
CEE 08532	Pollutant Fate & Transport	3
CEE 08533	Integrated Solid Waste Management	3
CEE 08543	Advanced Water Resources	3
CEE 08544	Hydraulic Design	3
CEE 08545	Environmental Fluid Mechanics	3
CEE 08552	Foundation Engineering	3
CEE 08553	Earth Retaining Systems	3
CEE 08562	Advanced Transportation	3
CEE 08564	Design Elements Transport Engineering	3
CEE 08573	Advanced Structural Analysis	3
CEE 08584	Prestressed Concrete	3
CEE 08585	Advanced Reinforced Concrete	3
CEE 08586	Bridge Engineering	3

Chemical Engineering

Course #	Course Title	S. H.
CHE 06506	Process Heat Transfer	3
CHE 06508	Membrane Process Tech	3
CHE 06510	Biochemical Engineering	3
CHE 06512	Safety Process Industry	3
CHE 06514	Trans Phenomena Engineering	3
CHE 06515	Advanced Reactor Design	3
CHE 06516	Advanced Separation Process Technology	3
CHE 06518	Polymer Engineering	3
CHE 06520	Green Engineering Design in Chemical Ind.	3
CHE 06528	Fluid Flow Application Process/Manufacturing	3
CHE 06568	Electrochemical Engineering	3
CHE 06570	Air Pollution Control	3
CHE 06571	Biomedical Control Systems	3
CHE 06572	Biomedical Process Eng	3
CHE 06573	Biomaterials Eng	3
CHE 06574	Advances Particle Tech	3
CHE 06575	Biopharmaceuticals & Industrial Mixing	3
CHE 06576	Bioseparation Processes I	3
CHE 06577	Advanced Engineering Process Analysis & Experimental Design	3
CHE 06578	Tissue Engineering	3
CHE 06579	Industrial Process Pathways	3
CHE 06580	Optimization of Engineering Projects	3
CHE 06581	Advanced Process Analysis	3
CHE 06584	Controlled Release Theory	3
CHE 06585	Engineering Quality Control	3
CHE 06586	Advanced Engineering Thermodynamics	3

Mechanical Engineering

Course #	Course Title	S. H.
ME 10501	Computer Integrated Manufacturing & Automation	3
ME 10506	Computational Material Science	3
ME 10511	Combustion	3
ME 10513	Principles in Advanced Heat & Mass Transfer	3
ME 10514	Energy Conversion Systems	3
ME 10522	Computational Fluid Dynamics	3
ME 10541	Advanced Mechanism Design	3
ME 10542	Advanced Mechatronics	3

ME 10543	Advanced Design for X	3
ME 10544	Automotive Engineering	3
ME 10550	Advanced Solid Mechanics	3
ME 10551	Mechanics Continuous Media	3
ME 10552	Structural Acoustics	3
ME 10553	Analytical Dynamics	3
ME 10554	Elastic Stability of Structures	3
ME 10570	Principles in Biomechanics	3
ME 10571	Principles of Biotransport	3
ME 10572	Principles of Biomaterials	3
ME 10576	Principles in Orthopaedic Biomechanics	3

Approved Graduate Math Courses†*(s.h.: semester hours/credit hours)*

Course #	Course Title	S. H.
MATH 01505	Probability & Mathematical Statistics	3
MATH 01512	Complex Analysis I	3
MATH 01515	Engineering Applications of Analysis	3
MATH 01521	Nonlinear Differential Equations	3
MATH 03511	Operations Research I	3
MATH 03512	Operations Research II	3
STAT 02513	Applied Stochastic Processes	3
STAT 02514	Decision Analysis	3
STAT 02525	Design & Analysis of Experiments	3

†A student may request to take another graduate level course (offered at Rowan or elsewhere) if it is more suitable for his/her research; such a course may also be included as an "approved graduate level class," subject to his/her advisor's and home department head's/chair's approval.

Total Required Credits for the Program

72 s.h.*

*Minimum of 72 credits of graduate-level work beyond a bachelor's degree, or 42 credits of graduate-level work beyond a master's degree in a related field are required. Of these 72 total credits, 42 must come from the following:

1. At least one approved (see below) graduate level Math class. Certain math intensive engineering courses may be used to satisfy this requirement (3 credits).
2. *Effective Teaching in Academic & Corporate Environments* (3 credits).
3. *Strategic Technical Writing & Winning Grant Proposals* (2 credits).

At least 18 course credits (not including *Effective Teaching and Strategic Technical Writing* courses) must be obtained from graduate only classes (600-level classes, or 500-level classes with no corresponding 400-level equivalent offered at the same time).

A minimum of 21 credits must come from "Research." Up to 9 Research credits may come from ENGR 01599. Students who complete their Master's degree with thesis elsewhere may be considered to have taken 9 credits of ENGR 01599. All remaining Research credits must come from ENGR 01699, the last three (3) of which must be taken during the semester in which the Doctor of Philosophy in Engineering candidate plans to defend his/her Doctor of Philosophy in Engineering Dissertation.

Graduation/Exit/Thesis Requirements

- a. Complete a minimum of 72 credits of graduate level work beyond bachelor's degree OR minimum of 42 credits of graduate level work beyond master's degree
- b. Completion of all the University's standard Ethical & Responsible Conduct of Research training (including human/animal subject training when applicable)
- c. Regular attendance and participation in (0-credit) graduate seminars
- d. Successful completion of a Ph.D. Qualifier examination[^]
- e. Successful completion of a Ph.D. Candidacy (proposal) examination[^]
- f. Successful completion of the Career Preparation & Readiness Experience that consists of teaching, grant writing, publishing and service[^]
- g. Successful completion of a Ph.D. dissertation defense[^]
- h. Successful completion of a Ph.D. dissertation[^]

[^] The specific details, nature and scope of these examinations (e.g., format of the exam) and requirements (e.g. number of journal publications, conference publications, patents, number of teaching assignments) will be determined by the student's Doctor of Philosophy in Engineering committee and/or department policies for student's home department as aligned with the Henry M. Rowan College of Engineering policies.

Minimum Required Grades and Cumulative GPA

The Doctor of Philosophy in Engineering is a Category 2 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Concentration Coordinator Contact Information**Chemical Engineering**

Joseph Stanzone
Rowan Hall
856.256.5356
stanzone@rowan.edu

Civil & Environmental Engineering

Yusuf Mehta
Rowan Hall
856.256.5327
mehta@rowan.edu

Electrical and Computer Engineering

Nidhal Bouaynaya
Engineering Hall
856.256.5363
bouaynaya@rowan.edu

Materials Science and Engineering

Joseph Stanzone
Rowan Hall
856.256.5356
stanzone@rowan.edu

Mechanical Engineering

Francis (Mac) Haas
Rowan Hall
856.256.5340
mechegrad@rowan.edu

Master's Degrees**Master of Engineering Management (M.E.M.)**

The Master of Engineering Management (M.E.M.) is designed for engineers to develop management and leadership skills. Students in this program receive knowledge of managerial basics such as organizational behavior and teamwork, quantitative decision making, and operational system design. The combination of courses from Rowan's Henry M. Rowan College of Engineering and the Rohrer College of Business, provide an effective balance of innovative technical knowledge and managerial skills required to understand both the engineering and business aspects of technology. The M.E.M. program is online and designed for working professionals to conveniently attend class and complete their engineering management career goals in five consecutive semesters.

Program Requirements

The M.E.M. Program requires 30 semester credit hours (SCH) of graduate-level coursework. Six (6) courses must be taken from the required M.E.M. classes listed below. In addition, students must complete four (4) electives, which are grouped in tracks.

Required Courses for All Tracks

18 s.h.

(s.h.: semester hours/credit hours)

<u>Course #</u>	<u>Course Title</u>	<u>S. H.</u>
EM 01501	Engineering Economics	3
EM 01511	Strategic Risk Management	3
EM 01512	Quality in Engineering Management	3
EM 01541	Engineering Law and Ethics	3
EM 01543	Systems in Engineering Management	3
MIS 02526	Project Management for Engineers	3

Required Track Courses

12 s.h.

Master of Engineering Management students must complete the four courses in their selected track. (Track is selected during the application process.)

Course #	Course Title	S.H.
Combat Systems Engineering Track Courses		
ECE 09523	Advanced Radar Systems	3
ECE 09524	Advanced War Gaming and C4ISR	3
ECE 09525	Advanced Command and Control	3
ECE 09526	Advanced Weapon Systems	3
Construction Management Track Courses		
CEE 08504	Engineering Estimating	3
EM 01521	Construction Management	3
EM 01522	Construction Scheduling	3
EM 01523	Cost Engineering	3
Engineering Analytics and Quality Control Track Courses		
CHE 06577	Advanced Engineering Process Analysis and Experimental Design	3
CHE 06640	Engineering Process Analysis	3
CHE 06641	Engineering Statistical Process Control	3
CHE 06642	Quality Control Methods and Metrics	3
Project Management Track Courses		
EM 01513	Engineering Decision Making	3
EM 01542	Facilities Management	3
MGT 06666	Managing Engineering Teams	3
MGT 06677	Management Skills for Engineers	3
Total Required Credits for the Program		30 s.h.

Foundation Courses

An undergraduate degree must be successfully completed at an accredited institution.

Graduation/Exit, Benchmark, and Thesis Requirements

None

Minimum Required Grades and Cumulative GPA

The Master of Engineering Management is a Category 3 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Advisor Contact Information

Steven Chin

Vice Dean

Engineering Hall

856.256.5301

Chin@rowan.edu

Master of Science in Engineering Overview (M.S.)

The Master of Science in Engineering program at Rowan University effectively prepares individuals to respond to the changing needs of today's engineers. This program provides students with the necessary knowledge, skill set, and training to effectively contribute to the engineering workforce. Students have access to higher level courses leading to a graduate degree and are involved in professional development opportunities which increase the breadth of understanding and application of engineering principles.

Students can choose between a thesis track and a coursework track. Students may also work on a project, which may be counted toward a coursework track degree. Most full-time students work on funded research projects, leading to a thesis. Most part-time students select the coursework track. In order to be eligible for a Research Assistantship, students must select the thesis track.

Tracks

The program includes two tracks. Each has different course and graduation exit requirements which are outlined below.

- Thesis Track: The thesis option requires the completion of 30 semester hours, 6-9 of which are in thesis research/engineering project.
- Non-Thesis Track: The non-thesis option requires the completion of 30 semester hours of coursework.

Programs

Students in the M.S. program may select from the following concentrations:

- Chemical Engineering
- Civil & Environmental Engineering
- Electrical & Computer Engineering
- Engineering Management
- Mechanical Engineering

Note: Students may also choose to pursue a tailored Master of Science in Engineering program under the direction of a faculty advisor.

Master of Science in Engineering (M.S.)

The Henry M. Rowan College of Engineering offers a general Master of Science in Engineering that allows students an opportunity to expand their skill sets in advanced topics of interest, with content that can span across all engineering disciplines and that is tailored to the student's specific professional goals.

Program Requirements

Required Courses: 9 semester hours (s.h.)

Required Courses

9 s.h.

(s.h.: semester hours/credit hours)

Course #	Course Title	S. H.
MATH 01515	Engineering Applications of Analysis (or equivalent determined in consultation with Academic Advisor)	3
Business course	<i>Choose one course from among the following</i>	3
ENT 06506	Corporate Entrepreneurship and New Venture Development	3
EM 01501	Engineering Economics	3
EM 01511	Strategic Risk Management	3
EM 01512	Quality in Engineering Management	3
EM 01513	Engineering Decisions	3
EM 01541	Engineering Law and Ethics	3
MGT 06510	Strategic Engineering Management	3
MGT 06666	Managing Engineering Teams	3
MGT 06677	Management Skills for Engineers	3
MIS 02526	Project Management for Engineers	3
Engineering Course	Computation <i>Approved computation courses are indicated below with an asterisk. Choose one course from among these. Note: This course will be taken in addition to the 12-21 s.h. of Specialized Program Coursework.</i>	3

21 s.h.

A student may take any graduate level course offered in the Henry M. Rowan College Engineering, at Rowan University, or elsewhere subject to his/her advisor's and home department head's/chair's approval.

Total Required Credits for the Program

30 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark, and Thesis Requirements

Thesis Track: The thesis option requires the completion of 30 semester hours, 6-9 of which are in thesis research/engineering project.

Non-Thesis Track: The non-thesis option requires the completion of 30 semester hours of coursework.

Minimum Required Grades and Cumulative GPA

The Master of Science in Engineering is a Category 2 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Advisor Contact Information**Joseph Stanzione****Rowan Hall****856.256.5356****stanzione@rowan.edu**

Master of Science in Biomedical Engineering (M.S.)

The Master of Science in Biomedical Engineering program at Rowan University effectively prepares individuals to respond to the changing needs of engineers today. This program provides students with the necessary knowledge, skill set, and training to effectively contribute to the engineering workforce. Students have access to higher level courses leading to a graduate degree and are involved in professional development opportunities which increase the breadth of understanding and application of engineering principles.

The Master of Science in Biomedical Engineering is a research-based degree, and additional graduate-level Biomedical Engineering coursework gives students an opportunity to expand their skill set in advanced topics of interest. Advanced topics include Biomaterials Engineering, Tissue Engineering and Regenerative Medicine, Bioinstrumentation, Biomechanics and Mechanobiology, and other emerging areas. A novel research project completed under the mentorship of a faculty advisor and culminating in a Thesis, requires students to effectively apply engineering principles to solve a contemporary biomedical problem.

Program Requirements

The Rowan University Master of Science in Biomedical Engineering requires the completion of 30 hours of graduate level coursework and the successful completion and defense of a Master's Thesis.

Coursework The following courses make up the Master of Science in Biomedical Engineering curriculum.

- **Core Courses:** Minimum of 9 s.h. (chosen in consult with advisor)
- **Elective Courses:** 12-15 s.h. (chosen in consult with advisor)
- **Research Credits:** 6-9 s.h.

Biomedical Engineering Core Courses

9 s.h.

Students must choose 9 sh from the following bank of courses. An advanced mathematics course is required.

<u>Course #</u>	<u>Course Title</u>	<u>S. H.</u>
MATH 01515	Engineering Applications of Analysis	3
TBD	Engineering Computation (choose from one of the following)	3
BME 11610	Biological Transport Phenomena	3
CHE 06586	Advanced Engineering Thermodynamics	3
CHE 06571	Biomedical Control Systems	3
	Other equivalent determined in consult with advisor	3
TBD	Approved Business course - determined in consult with advisor	3

Biomedical Engineering Elective Courses

12-15s.h.

Students must choose 12-15 sh from the following bank of courses in consultation with their advisor. Please note: The following list of concentration courses is not limiting; additional courses may be approved by the academic advisor.

<u>Course #</u>	<u>Course Title</u>	<u>S. H.</u>
BME 11610	Biomedical Imaging	3
BME 11590	Advanced Biocompatibility and Immunoengineering	3
BME 11590	Advanced Cell Bioelectricity	3
BME 11590	Advanced Mechanobiology	3
BME 11590	Regulatory Strategies in Biomedical Engineering	3
BME 11590	Biomaterials Engineering	3
BME 11590	Orthopedic Engineering	3
BME 11602	Writing and Winning Grant Proposals in the Biomedical Field	3
ENGR 01510	Finite Element Analysis	3
ENGR 01511	Engineering Optimization	3
ENGR 01512	Principles of Nanotechnology	3
BIOL 14540	Intro to Biochemistry	3
CEE 08573	Advanced Structural Analysis	3
CEE 08675	Fracture Mechanics	3
CHE 06518	Polymer Engineering	3
CHE 06572	Biomedical Process Eng.	3
CHE 06576	Bioseparation Processes I	3
CHE 06578	Tissue Engineering	3
CHE 06584	Controlled Release Theory	3
ME 10506	Computational Material Science	3
ME 10522	Computational Fluid Dynamics	3
ME 10550	Advanced Solid Mechanics 3	3
ME 10570	Principles in Biomechanics	3
MATH 01505	Probability and Mathematical Statistics	3
MATH 01512	Complex Analysis I	3
MATH 01521	Nonlinear Differential Equations	3

MBS 43751	Fundamentals of Biochemistry and Molecular Biology I	3
MBS 43752	Fundamentals of Cell Biology II	3
STAT 02510	Introduction to Statistical Data Analysis	3
STAT 02525	Design and Analysis of Experiments	3

Biomedical Engineering Research Courses 6-9 s.h.

Research hours are credited for laboratory research leading to a Master's Thesis.

Course #	Course Title	S. H.
ENGR 01599	Masters Research	6-9

Total Required Credits for the Program 30 s.h.

Foundation Courses

The following undergraduate courses are required: For applicants with undergraduate majors that are not Biomedical Engineering or a closely related field, undergraduate courses may be required during matriculation. The following undergraduate courses are strongly recommended: Chemistry I, Physics I, Calculus I, II, and III, Linear Algebra, and Differential Equations.

Graduation/Exit, Benchmark, and Thesis Requirements

Student must successfully complete and defend a Master's thesis.

Minimum Required Grades and Cumulative GPA

The Master of Science in Biomedical Engineering is a Category 2 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Graduate Program Chair Contact Information

Vince Beachley
Engineering Hall
856.256.5329
beachley@rowan.edu

Master of Science in Chemical Engineering (M.S.)

The Master of Science in Chemical Engineering program emphasizes advanced chemical engineering skills, project management skills, engineering design, and fundamental and applied research, all of which prepares students and working engineers for successful careers in high-tech fields. This program includes the following focus areas: additive manufacturing; biochemical engineering; catalysis; experimental design and data analysis; green engineering; lean manufacturing; membrane separations; pharmaceutical and food processing technology; polymers and polymer composites; process design and optimization; reaction engineering; social life cycle analyses; sustainable design; tissue engineering.

Program Requirements

Required Courses: 9 semester hours (s.h.)

Required Courses 9 s.h.

(s.h.: semester hours/credit hours)

Course #	Course Title	S. H.
MATH 01515	Engineering Applications of Analysis (or equivalent determined in consultation with Academic Advisor)	3
Business course	<i>Choose one course from among the following</i>	3
ENT 06506	Corporate Entrepreneurship and New Venture Development	3
EM 01501	Engineering Economics	3
EM 01511	Strategic Risk Management	3
EM 01512	Quality in Engineering Management	3
EM 01513	Engineering Decisions	3
EM 01541	Engineering Law and Ethics	3
MGT 06510	Strategic Engineering Management	3
MGT 06666	Managing Engineering Teams	3
MGT 06677	Management Skills for Engineers	3
MIS 02526	Project Management for Engineers	3
Engineering Course	Computation <i>Approved computation courses are indicated below with an asterisk. Choose one course from among these. Note: This course will be taken in addition to the 12-21 s.h. of Specialized Program Coursework.</i>	3

21 s.h.

Required Specialized Courses

12-15 s.h.

Choose from the graduate level electives offered by the Chemical Engineering program, with approval of the Academic Advisor. The eligible courses include, but are not limited to the following.:

Course #	Course Title	S. H.
CHE 06502	Special Topics in Chemical Engineering	3
CHE 06506	Process Heat Transfer	3
CHE 06508	Membrane Process Technology	3
CHE 06510	Biochemical Engineering	3
CHE 06512	Safety in the Process Industries	3
CHE 06514	Transport Phenomena for Engineers*	3
CHE 06515	Advanced Reactor Design*	3
CHE 06516	Advanced Separation Process Technology*	3
CHE 06518	Polymer Engineering	3
CHE 06520	Green Engineering Design in the Chemical Industry	3
CHE 06528	Fluid Flow Applications in Processing and Manufacturing*	3
CHE 06568	Electrochemical Engineering	3
CHE 06570	Air Pollution Control	3
CHE 06571	Biomedical Control Systems	3
CHE 06572	Biomedical Process Engineering	3
CHE 06574	Advances in Particle Technology	3
CHE 06576	Bioseparation Processes	3
CHE 06577	Advanced Engineering Process Analysis & Experimental Design*	3
CHE 06578	Tissue Engineering	3
CHE 06579	Industrial Process Pathways	3
CHE 06580	Optimization of Engineering Projects	3
CHE 06581	Advanced Process Analysis*	3
CHE 06582	Food Engineering Systems	3
CHE 06584	Controlled Release Theory	3
CHE 06586	Advanced Engineering Thermodynamics*	3
Required Thesis/Project Courses		6–9 s.h.
Course #	Course Title	S. H.
ENGR 01599	Masters Research	6–9
Total Required Credits for the Program		30 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark, and Thesis Requirements

Thesis Research/Engineering Project. (Students will register for Masters Research (see above) credit hours totaling between 6–9 s.h. Please discuss with your Academic Advisor.)

Minimum Required Grades and Cumulative GPA

The Master of Science in Chemical Engineering is a Category 2 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Advisor Contact Information

Joseph Stanzione
Rowan Hall
856.256.5356
stanzione@rowan.edu

Master of Science in Civil & Environmental Engineering (M.S.)

The Civil & Environmental Engineering program allows students to develop an interdisciplinary focus through their coursework and thesis topic. Graduate students work with faculty with expertise in transportation, geo-technology, structures, water resources, and the environment. Interdisciplinary areas include mechanics and materials, and sustainability. This program also includes the following focus areas: Mechanics and Materials; Signals, Systems and Computational Intelligence; Sustainability; and Transportation Engineering.

Program Requirements

Required Courses: 9 semester hours (s.h.)

Required Courses

9 s.h.

(s.h.: semester hours/credit hours)

Course #	Course Title	S. H.
MATH 01515	Engineering Applications of Analysis (or equivalent determined in consultation with Academic Advisor)	3
Business course	<i>Choose one course from among the following</i>	3
ENT 06506	Corporate Entrepreneurship and New Venture Development	3
EM 01501	Engineering Economics	3
EM 01511	Strategic Risk Management	3
EM 01512	Quality in Engineering Management	3
EM 01513	Engineering Decisions	3
EM 01541	Engineering Law and Ethics	3
MGT 0610	Strategic Engineering Management	3
MGT 06666	Managing Engineering Teams	3
MGT 06677	Management Skills for Engineers	3
MIS 02526	Project Management for Engineers	3
Engineering Course	Computation <i>Selected approved computation courses are indicated below with an asterisk. Students may choose from the courses indicated below or may select a computation intensive CS or CEE course as approved by the academic advisor. Note: This course will be taken in addition to the 12-21 s.h. of Specialized Program Coursework.</i>	3
		21 s.h.

Required Specialized Program Courses

12–15 s.h.

Choose from the following. The eligible courses include, but are not limited to the following. (Please note that not all courses are offered on a regular basis and should be chosen in consultation with the advisor.) Additional CEEo85XX courses are listed in the course descriptions at the back of this catalog.:

Course #	Course Title	S. H.
CEE 08504	Engineering Estimating	3
CEE 08507	Prestressed Concrete	3
CEE 08512	Advanced Environmental Treatment Process	3
CEE 08522	Site Remediation Engineering	3
CEE 08531	Solid/Hazardous Water Management	3
CEE 08532	Pollutant Fate & Transport	3
CEE 08533	Integrated Solid Waste Management	3
CEE 08541	Advanced Surface Hydrology	3
CEE 08543	Advanced Water Resources	3
CEE 08544	Hydraulic Design	3
CEE 08545	Environmental Fluid Mechanics	3
CEE 08552	Foundation Engineering	3
CEE 08553	Earth Retaining Systems	3
CEE 08562	Advanced Transportation	3
CEE 08564	Design Elements Transport Engineering	3
CEE 08566	Transportation System Modeling	3
CEE 08573	Advanced Structural Analysis	3
CEE 08574	Advanced Structural Mechanics	3
CEE 08575	Advanced Fatigue and Fracture	3
CEE 08584	Prestressed Concrete	3
CEE 08585	Advanced Reinforced Concrete	3
CEE 08586	Bridge Engineering	3
ENGR 01510	Finite Element Analysis	3
ENGR 01580	Advanced Viscoelasticity	3
CEE 08583	Advanced Steel Design	3
CEE 08603	Selected or Special Topics	3

Required Thesis/Project Courses

6–9 s.h.

Course #	Course Title	S. H.
ENGR 01599	Masters Research	6-9

Total Required Credits for the Program

30 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark, and Thesis Requirements

Thesis Research/Engineering Project. (Students will register for Masters Research (see above) credit hours totaling between 6-9 s.h. Please discuss with your Academic Advisor.)

Minimum Required Grades and Cumulative GPA

The Master of Science in Civil & Environmental Engineering is a Category 2 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Advisor Contact Information

Yusuf Mehta
Rowan Hall
856.256.5327
mehta@rowan.edu

Master of Science in Electrical & Computer Engineering (M.S.)

The Electrical Engineering program gives students an opportunity to expand their skill sets in advanced topics of interest. Concentration areas include signal & image processing, computational intelligence and pattern recognition, power systems and renewable energy, discrete event systems, and virtual reality systems. This program also includes the following focus areas: Bioengineering; Signals, Systems and Computational Intelligence; and Sustainability.

Program Requirements

Required Courses: 9 semester hours (s.h.)

Required Courses

9 s.h.

(s.h.: semester hours/credit hours)

Course #	Course Title	S. H.
MATH TBD	Math intensive course in Math or ECE dept. (approved by academic advisor)	3
Business course	<i>Choose one course from among the following</i>	3
ENT 06506	Corporate Entrepreneurship and New Venture Development	3
EM 01501	Engineering Economics	3
EM 01511	Strategic Risk Management	3
EM 01512	Quality in Engineering Management	3
EM 01513	Engineering Decisions	3
EM 01541	Engineering Law and Ethics	3
MGT 06510	Strategic Engineering Management	3
MGT 06666	Managing Engineering Teams	3
MGT 06677	Management Skills for Engineers	3
MIS 02526	Project Management for Engineers	3
Engineering Course	Computation <i>Selected approved computation courses are indicated below with an asterisk. Students may choose from the courses indicated below or may select a computation intensive CS or ECE course as approved by the academic advisor. Note: This course will be taken in addition to the 12-21 s.h. of Specialized Program Coursework.</i>	3

21 s.h.

Required Concentration Elective Courses

12–21 s.h.

Choose 21 s.h. (non-thesis track) or 12–15 s.h. (thesis track) of approved electives in consultation with the Academic Advisor. The eligible courses include, but are not limited to the following:

Course #	Course Title	S. H.
ECE 09504	Special Topics in Electrical and Computer Engineering [^]	3
ECE 09509	Virtual Reality Systems*	3
ECE 09521	Fundamentals in Systems Engineering	3
ECE 09523	Advanced Radar Systems*	3
ECE 09524	Advanced War Gaming and C4ISR*	3
ECE 09525	Advanced Command and Control*	3
ECE 09526	Advanced Weapon Systems*	3
ECE 09551	Digital Signal Processing	3
ECE 09552	Digital Image Processing	3
ECE 09553	Digital Speech Processing	3
ECE 09554	Theory and Engineering Application of Wavelets	3
ECE 09555	Advanced Topics in Pattern Recognition / Machine Learning	3
ECE 09556	Advanced Embedded Software Design	3
ECE 09560	Artificial Neural Networks*	3
ECE 09566	Advanced Topics in Systems, Devices, and Algorithms in Bioinformatics	3

ECE 09568	Discrete Event Systems	3
ECE 09569	System-on-Chip Verification	3
ECE 09571	Instrumentation	3
ECE 09572	Advanced Smart Grid	3
ECE 09573	Advanced Smart Sensors	3
ECE 09582	Memristors and Nanoelectronic VLSI	3
ECE 09585	Advanced Engineering Cyber Security	3
ECE 09586	Advanced Portable Platform Development	3
ECE 09590	Advanced Emerging Topics in Computer Engineering	3
ECE 09595	Advanced Emerging Topics in Comp. Intelligence & Machine Learning	3
ECE 09651	Estimation and Detection Theory	3
ECE 09655	Advanced Computational Intelligence and Machine Learning	3
ENGR 01510	Finite Element Analysis	3
ENGR 01511	Engineering Optimization	3

Required Thesis/Project Courses 6–9 s.h.

Course #	Course Title	S. H.
ENGR 01599	Masters Research	6–9

Total Required Credits for the Program 30 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark, and Thesis Requirements

Thesis Research/Engineering Project. (Students will register for Masters Research (see above) credit hours totaling between 6-9 s.h. Please discuss with your Academic Advisor.)

Minimum Required Grades and Cumulative GPA

The Master of Science in Electrical and Computer Engineering is a Category 2 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Advisor Contact Information

Nidhal Bouaynaya
Engineering Hall
856.256.5363
bouaynaya@rowan.edu

Master's Degrees Continued

Master of Science in Mechanical Engineering (M.S.)

The Mechanical Engineering program permits students to deeply explore engineering design and analysis. The interdisciplinary nature of the program provides students with an opportunity to work on exciting research areas at the leading edge of technology. This program includes focus areas in Bioengineering, Mechanics, Materials, Nanotechnology, Devices, and Systems Engineering.

Program Requirements

Required Courses: 9 semester hours (s.h.)

Required Courses 9 s.h.

(s.h.: semester hours/credit hours)

Course #	Course Title	S. H.
MATH 01515	Engineering Applications of Analysis (or equivalent determined in consultation with Academic Advisor)	3
Business course	<i>Choose one course from among the following</i>	3
ENT 06506	Corporate Entrepreneurship and New Venture Development	3
EM 01501	Engineering Economics	3
EM 01511	Strategic Risk Management	3
EM 01512	Quality in Engineering Management	3
EM 01513	Engineering Decisions	3
EM 01541	Engineering Law and Ethics	3
MGT 06510	Strategic Engineering Management	3
MGT 06666	Managing Engineering Teams	3

MGT 06677		Management Skills for Engineers	3
MIS 02526		Project Management for Engineers	3
Engineering Course	Computation	<i>Approved computation courses are indicated below with an asterisk. Choose one course from among these. Note: This course will be taken in addition to the 12-21 s.h. of Specialized Program Coursework.</i>	3

Required Specialized Program Courses

12–21 s.h.

Choose from the following options.

Course #	Course Title	S. H.
ENGR 10513	Renewable Energy: Photovoltaics and Energy Harvesting	3
ENGR 01512	Principles of Nanotechnology	3
ENGR 01510	Finite Element Analysis*	3
ENGR 01511	Engineering Optimization*	3
ME 10513	Principles in Advanced Heat And Mass Transfer	3
ME 10501	Computer Integrated Manufacturing and Automation*	3
ME 10505	Special Topics in Mechanical Engineering	3
ME 10506	Computational Materials Science*	3
ME 10511	Combustion	3
ME 10512	Rocket Propulsion	3
ME 10514	Energy Conversion Systems	3
ME 10521	Gas Dynamics	3
ME 10522	Computational Fluid Dynamics*	3
ME 10541	Advanced Mechanism Design	3
ME 10542	Advanced Mechatronics*	3
ME 10544	Automotive Engineering	3
ME 10550	Advanced Solid Mechanics	3
ME 10551	Mechanics of Continuous Media	3
ME 10552	Structural Acoustics	3
ME 10553	Analytical Dynamics	3
ME 10554	Elastic Stability of Structures	3
ME 10570	Principles in Biomechanics	3
ME 10571	Principles of Biotransport	3

Required Thesis/Project Courses

6–9 s.h.

Course #	Course Title	S. H.
ENGR 01599	Master's Research	6-9

Total Required Credits for the Program

30 s.h.

Foundation Courses

The following undergraduate courses or their substantial equivalents must be successfully completed at an accredited institution: Chemistry I, Physics I, Calculus I, II, and III, Linear Algebra, and Differential Equations.

Graduation/Exit, Benchmark, and Thesis Requirements

If thesis track is selected, students will register for 6-9 s.h. of Master's Research and must successfully complete and defend the Master's Thesis.

Minimum Required Grades and Cumulative GPA

The Master of Science in Mechanical Engineering is a Category I program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Advisor Contact Information

Francis Haas
Rowan Hall
mechegrad@rowan.edu

Certificate of Graduate Study (Non-degree)**Certificate of Graduate Study in Combat Systems Engineering (COGS)**

The immediate region surrounding Rowan University is home to a large number of companies and agencies that serve the defense industry. Collectively, this industry hires more of the graduating Rowan Electrical and Computer Engineering (ECE) students than any other industry. The representatives of this industry have expressed a desire to provide additional knowledge and skill sets – specifically as they relate to combat systems – that they would prefer their employees to have at the time of hiring.

The Certificate of Graduate Study (COGS) in Combat Systems Engineering is a program designed to meet this need and consists of four (4) three-credit graduate level courses. The program allows students to increase the breadth and depth of their knowledge of complex systems with particular applications to combat systems and defense technologies. Completion of this COGS will give students the necessary tools required by the defense industry in analysis, design, evaluation, and validation of combat systems. Students who complete this COGS will be marketable and ready to be imminently employed at graduation by the defense industry companies, not just in our immediate geographic area, but nationwide as well. This program is jointly developed by Rowan ECE and the defense industry representatives. All courses in this COGS are taught by highly qualified faculty, including subject matter experts from the defense industry who have significant industrial experience and hence bring unique industry perspective.

The primary audience of this COGS are:

- Students with Bachelor of Science Degree in Electrical Engineering, Computer Engineering, Systems Engineering, or related engineering fields, who would like to focus on the combat systems engineering for employment in the defense industry, but not necessarily interested in completing a separate, stand alone Master of Science degree program
- Current employees in the defense industry, possibly newly hired, who may need the additional knowledge and skills set in combat systems engineering.

The courses in this COGS are also available to students who would like to complete a M.S. in ECE degree.

Program Requirements**Required Courses**

(s.b.: semester hours/credit hours)

<u>Course #</u>	<u>Course Title</u>	<u>S. H.</u>
ECE 09523	Advanced Radar Systems	3
ECE 09524	Advanced War Gaming and C4ISR	3
ECE 09525	Advanced Command and Control	3
ECE 09526	Advanced Weapon Systems	3

Total Required Credits 12 s.h.

Foundation Courses

MATH 01230 Calculus III; ECE 09321 Systems and Control I (or similar / relevant work experience); ECE 09341 Signals & Systems (or similar / relevant work experience)

Graduation/Exit, Benchmark, and Thesis Requirements

None

Minimum Required Grades and Cumulative GPA

The COGS in Combat Systems Engineering is a Category 2 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Advisor Contact Information

Robi Polikar

Department Head, Electrical and Computer Engineering

Engineering Hall

856.256.5372

polikar@rowan.edu

Certificate of Graduate Study in Construction Management (COGS)

The Certificate of Graduate Study (COGS) in Construction Management is a program designed to meet the needs of individuals who are established in careers and are seeking professional growth and advancement within their professions. The engineering management approach adapts special management techniques with the purpose of obtaining better control and use of existing resources. It is intended for civil engineer, engineering technology, and construction management graduates who plan to enhance their prospects for success and move into management. New Jersey professional engineers are required to complete continuing education every two years. This will provide that service, as well as meeting education requirements for professional engineering license.

The courses in this certificate are also available to students who would like to complete a Master in Engineering Management (M.E.M.) degree.

Program Requirements

Required Courses

(s.b.: semester hours/credit hours)

<u>Course #</u>	<u>Course Title</u>	<u>S. H.</u>
CEE 08504	Engineering Estimating	3
EM 01521	Construction Management	3
EM 01522	Construction Scheduling	3
EM 01523	Cost Engineering	3

Total Required Credits

12 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark, and Thesis Requirements

None

Minimum Required Grades and Cumulative GPA

The COGS in Construction Management is a Category 3 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Advisor Contact Information

Steven Chin

Vice Dean

Engineering Hall

856.256.5301

Chin@rowan.edu

Certificate of Graduate Study in Engineering Analytics and Quality Control (COGS)

The Certificate of Graduate Study (COGS) in Engineering Analytics and Quality Control is a program designed to prepare students to be industry-ready to contribute in any process engineering quality assessment, improvement and control function. The completion of the certificate will enhance participants' marketability and ease the entry into a graduate or doctoral engineering program.

The courses in this certificate are also available to students who would like to complete a Master in Engineering Management (M.E.M.) degree.

Program Requirements

Required Courses

(s.b.: semester hours/credit hours)

<u>Course #</u>	<u>Course Title</u>	<u>S. H.</u>
CHE 06577	Advanced Engineering Process Analysis and Experimental Design	3
CHE 06640	Engineering Process Analysis	3
CHE 06641	Engineering Statistical Process Control	3
CHE 06642	Quality Control Methods and Metrics	3

Total Required Credits

12 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark, and Thesis Requirements

None

Minimum Required Grades and Cumulative GPA

The COGS in Engineering Analytics and Quality Control is a Category 2 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Advisor Contact Information

Zenaida Gephardt
Associate Professor
Rowan Hall
856.256.5314
gephardtzo@rowan.edu

Certificate of Graduate Study in Project Management (COGS)

The Certificate of Graduate Study (COGS) in Project Management is a program designed to emphasize engineering management from the engineering perspective and offers students a viable and desirable lifetime opportunity to professionals practicing in engineering applications. The completion of the certificate will enhance participants' marketability and ease the entry into a graduate or doctoral engineering program.

The courses in this certificate are also available to students who would like to complete a Master in Engineering Management (M.E.M.) degree.

Program Requirements

Required Courses

(s.h.: semester hours/credit hours)

<u>Course #</u>	<u>Course Title</u>	<u>S. H.</u>
EM 01513	Engineering Decision Making	3
EM 01542	Facilities Management	3
MGT 06666	Managing Engineering Teams	3
MGT 06677	Management Skills for Engineers	3

Total Required Credits

12 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark, and Thesis Requirements

None

Minimum Required Grades and Cumulative GPA

The COGS in Project Management is a Category 2 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Advisor Contact Information

Steven Chin
Vice Dean
Engineering Hall
856.256.5301
Chin@rowan.edu

Undergraduate Degree-Completion Programs

Overview

The following programs lead to a Bachelor's degree. These programs are offered through the Division of Global Learning & Partnerships, but official course descriptions and more about the program as a whole are included in Rowan's Undergraduate Catalog: www.rowan.edu/catalogs.

Bachelor of Arts in Construction Management

Rowan University's Bachelor of Arts in Construction Management degree completion program provides those with an Associate's degree or at least 60 credits with the remaining credits necessary to complete a bachelor's degree in this growing field while taking classes online. Applicants with less than 60 credits may work with an enrollment counselor to explore available options. This program is ideal for journey persons and seasoned professionals in the construction industry as well as apprentices who are looking to develop leadership skills and advance their careers. The Bachelor of Arts in Construction Management degree prepares individuals to supervise, manage, and inspect construction sites, buildings, and associated facilities. Rowan University's program has received the endorsement of the **North America's Building Trades Unions**.

Upon completion of the program students will supplement construction experience with the managerial skills required to:

- Propose, plan, and implement construction projects.
- Develop safe and ethical practices efficiently and profitably.
- Communicate effectively with construction teams and community members.
- Develop effective project management strategies and techniques.
- Manage construction projects with scheduling software.
- Estimate quantity take-offs and costs with computers.
- Address issues related to construction law and project management.
- Understand materials and methods listed in the construction specification institute's Master Format.

Program Requirements

Rowan University requires the completion of 120 semester hours of approved general education and major coursework in order to graduate with a bachelor's degree. The following courses make up the B.A. in Construction Management program.

General Education Requirements: 31 s.h.

- Composition: 6 s.h.
- Science (Lab) & Mathematics: 7 s.h.
- Social and Behavioral Sciences: 6 s.h.
- History, Humanities & Language: 6 s.h.
- Non-Program: 6 s.h.

Rowan Experience Requirements: 15 s.h.

- Artistic and Creative Experience: 3 s.h.
- Literature: 3 s.h.
- Multicultural/Global: 3 s.h.
- Public Speaking: 3 s.h.
- Writing Intensive: 3 s.h.

Elective Coursework: 38 s.h.

General Education

All students starting *before* Fall 2018 and transfer students must complete the University General Education Requirements as described on page 13.

Rowan Core

All first-time Freshmen starting in Fall 2018 or after must complete the University Rowan Core Requirements as described on page 15.

Required Courses

30 s.h.

(s.h.: semester hours/credit hours)

Course #	Course Title	S. H.
CM 01301	Fundamentals of the Construction Industry I	3 s.h.
CM 01302	Fundamentals of the Construction Industry II	3 s.h.
CM 01303	Project Building Systems	3 s.h.
CM 01304	Project Administration	3 s.h.
CM 01305	Cons Cost Accounting, Estimating & Finance	3 s.h.
CM 01306	Construction Project Planning & Scheduling	3 s.h.

CM 01407	Advanced Leadership & Communication	3 s.h
CM 01408	Industrial Relations in the Construction Industry	3 s.h
CM 01409	Building Energy Systems for Cons Managers	3 s.h
CM 01410	Building Construction Systems & Codes	3 s.h
CM 01411	Construction Safety and Loss Prevention	3 s.h
CM 01412	Capstone Course	3 s.h.

Credit for Prior Learning In addition to transfers from other accredited colleges and universities, credit toward the degree may be awarded for prior work and experience. Students can convert into credits part of their working experience through Prior Learning Assessment (PLA). Rowan University accepts assessments of credits by external agencies including College Level Examination Placement (CLEP), Advanced Placement (AP), and through the New Jersey Prior Learning Assessment Network agreement, Thomas Edison State College. Rowan University is an American Council on Education (ACE) member institution and participates in the Credit for Prior Learning (CPL) program. For students seeking degree completion, students are referred to an academic department advisor for concurrence and academic advisement.

Foundation Courses

None

Graduation/Exit, Benchmark, and/or Thesis Requirements

None

Program Coordinator/Advisor Contact Information

Steven Chin

Vice Dean

Engineering Hall

856.256.5301

Chin@rowan.edu

Bachelor of Science in Surveying Engineering Technology (B.S.)

The Bachelor of Science in Surveying Engineering Technology is a program designed to prepare students to sit for the licensing exam to become a Professional Land Surveyor by the State of New Jersey. The ABET accredited Bachelor of Science in Surveying Technology degree will be offered as a 2+2 program with Rowan College of South Jersey with all or most of the courses offered at the Sewell campus.

General Education

All students starting *before* Fall 2018 and transfer students must complete the University General Education Requirements as described on page 13.

Rowan Core

All first-time Freshmen starting in Fall 2018 or after must complete the University Rowan Core Requirements as described on page 15.

Program Requirements

Rowan University requires the completion of 120 semester hours of approved general education and major coursework in order to graduate with a bachelor's degree.

Required Core Courses

54 s.h.

(s.h.: semester hours/credit hours)

Surveying

SET 01108	Introduction to Surveying	3
SET 01206	Evidence and Procedures for Boundary Location	3
SET 01208	Route and Construction Surveying	3
SET 01301	Legal Aspects of Surveying	3
SET 01302	Adjustment Computations	4
SET 01303	Boundaries and Adjacent Properties	3
SET 01304	Digital Practices in Surveying	3
SET 01305	Boundary Line Analysis	3
SET 01401	Geodetic Control Surveying	3
SET 01402	Professional Practice in Surveying	2
SET 01403	Fundamentals of Geodesy	3
SET 01490	Capstone Project	3

Geography

GEOG 16160	Introduction to Mapping and GIS	3
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GEOG 16260	Fundamentals of GIS	3
GEOG 16370	Remote Sensing/Air Photo Inter.	3
	Geospatial Elective	3

Planning

PLAN 31280	Foundations of Planning and Environmental Design	3
	Planning Elective	3

General Education and Technical Courses 66 s.h.

Total Required Credits for the Program 120 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark, and/or Thesis Requirements

None

Program Coordinator/Advisor Contact Information**Douglas Cleary****Henry M. Rowan Hall****856.256.5325****cleary@rowan.edu**

Certificate of Undergraduate Study in Construction Management Practices (CUGS)

The CUGS in Construction Management Practices program will allow students to increase the breadth and depth of their knowledge of construction industry fundamentals and project administration. Completion of the CUGS will provide apprentices, journeypersons, and seasoned professionals the opportunity to pursue construction management positions.

The CUGS in Construction Management Practices targets statewide workforce development priorities. The CUGS is intended to meet growing industry demand for advanced credentials among construction professionals and enables students to earn credentials incrementally at their own pace and to pause their education as needed or desired.

Program Requirements

Required Courses 6 s.h.

(s.h.: semester hours/credit hours)

Course #	Course Title	S.H.
CM 01301	Fundamentals of the Construction Industry I	3
CM 01302	Fundamentals of the Construction Industry II	3

Elective Courses 6 s.h.

Choose two (2) from the following options.

Course #	Course Title	S.H.
CM 01303	Project Building Systems	3
CM 01304	Project Administration	3
CM 01305	Construction Cost Accounting, Estimating and Finance	3
CM 01306	Construction Project Planning and Scheduling	3
CM 01410	Building Construction Systems and Codes	3
CM 01411	Construction Safety and Loss Prevention	3

Total Required Credits for the Program 12 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark, and Thesis Requirements

None

Program Coordinator/Advisor Contact Information**Steven Chin****Vice Dean****Engineering Hall****856.256.5301****Chin@rowan.edu**

College of Performing Arts

Richard Dammers
Dean
Wilson Hall
856.256.4551
dammers@rowan.edu

Melanie Stewart
Associate Dean
Wilson Hall
856.256.4548
stewartm@rowan.edu

History

The College of Performing Arts (formerly, the School of Fine and Performing Arts at Glassboro State College) was founded in 1971. In 1997, during the transition from Glassboro State College to Rowan University, the School became the College of Fine and Performing Arts. The College was renamed the College of Performing Arts in 2012. Today, the College is comprised of the departments of Music (including the Maynard Ferguson Institute of Jazz Studies) and Theatre & Dance. The College offers baccalaureate degrees in the fields of Dance, Music, Music Industry, Theatre, a post-baccalaureate certificate in Music Therapy, and graduate degrees in Music and Theatre: Arts Administration.

In addition to more than 250 performances on campus each year, the faculty, staff, and students collaborate in scholarly and artistic activities at the international, national, and regional levels.

Mission

The College of Performing Arts at Rowan University develops artists and audiences of the future and promotes the arts as vital to humanity. Through rigorous professional preparation and liberal arts programs, the College educates students in the disciplines of dance, music, and theatre and challenges them to develop a conceptual, critical and creative perspective within the contemporary world. The College creates, illuminates, and inspires audiences and community through public performances and artistic practice for the university and broader region.

Accreditation

Specialized, national arts accreditation has been granted by the following organizations:

- The National Association of Schools of Music
- The National Association of Schools of Theatre

The College offers rigorous professional and liberal degree programs that develop technical and creative abilities of the student to the highest level to prepare them for a wide range of careers in the contemporary market place and creative industries.

A program of study in the College can lead to:

- A professional career in the performing arts or music industry
- A teaching career in Dance, Music, or Theatre
- Graduate study in Music, Music Therapy, or Arts Administration
- Other career options not tied fully to the performing arts, but which draw on the knowledge and rigor inherent in them

Central to a productive environment for the study of the arts is a vital community of arts professionals, including faculty and student artists, scholars, educators, and performers whose careers are dedicated to the creative pursuit and advancement of the performing arts and music industry, in terms of their own individual creation and, also, in relation to the audience. The performing arts faculty at Rowan consists of some of the finest arts professionals in the nation, all dedicated to fostering a creative, productive atmosphere in which all of the performing arts can flourish.

Departments

The College of Performing Arts houses the academic departments of Music and Theatre & Dance. (Not all departments offer programs through the Division of Global Learning & Partnerships.)

Programs Offered

All programs offered are listed below in order of degree/program type and then in alphabetical order by program name. Details about each program are then listed within the catalog in the same order. For the most up-to-date information regarding mode of delivery options for your program of interest, please visit www.rowanu.com/programs.

MASTER'S DEGREES

<u>Program Name</u>	<u>Format/Location</u>	<u>Program/Major Codes</u>	<u>Avail FT/PT</u>	<u>Total Credits</u>
Master of Arts in Arts Administration	Hybrid	TBD/TBD	Part-time	30
Master of Arts in Music Education	Hybrid	MA-MUSICED/G006	Part-time	33
Master of Music		MM-MUSIC/G004	Both	
<u>Concentration Name</u>	<u>Format/Location</u>	<u>Concentration Code</u>		<u>Total Credits</u>
Composition	Face-to-Face/Glassboro	C002		33-40
Conducting	Face-to-Face/Glassboro	C016		34-40
Instrumental Performance	Face-to-Face/Glassboro	C017		34-38
Jazz Studies	100% Online or Hybrid	C018		32
Vocal Performance	Face-to-Face/Glassboro	C019		34-38

CERTIFICATIONS, ENDORSEMENTS & RELATED POST-BACCALAUREATE PROGRAMS (NON-DEGREE)

<u>Program Name</u>	<u>Format/Location</u>	<u>Program/Major Codes</u>	<u>Avail FT/PT</u>	<u>Total Credits</u>
Post-Baccalaureate Certificate in Music Therapy	Hybrid/Glassboro	CRT-MUSTHERO	Part-time	38

Academic Program Policy Categories

For the purposes of both the Minimum Satisfactory Academic Progress policy and the Minimum Graduation Requirements policy, post-baccalaureate/graduate academic programs administered by Rowan Global at Rowan University fall into one of three major categories which are identified by their grade requirements as outlined below. (See individual program descriptions for academic categories.)

Category 1: To maintain Minimum Satisfactory Academic Progress in and to successfully graduate from a Category 1 program students must:

- Earn no more than two total "B-" grades
- Earn no grades lower than a "B-"
- Earn an official cumulative GPA (according to matriculation level) of at least 3.000 on Rowan's 4.000 scale

Category 2: To maintain Minimum Satisfactory Academic Progress in and to successfully graduate from a Category 2 program students must:

- Earn no grades lower than a "B-"
- Earn an official cumulative GPA (according to matriculation level) of at least 3.000 on Rowan's 4.000 scale

Category 3: To maintain Minimum Satisfactory Academic Progress in and to successfully graduate from a Category 3 program students must:

- Earn no more than two total C grades of any combination of "C+" or "C." (C- grades are not acceptable.)
- Earn no grades lower than a "C"
- Earn an official cumulative GPA (according to matriculation level) of at least 3.000 on Rowan's 4.000 scale

Policy Prior to Fall 2013 Matriculation

The academic review and minimum graduation requirements review policies will be applied to Rowan graduate and post-baccalaureate students who matriculate beginning Fall 2013 or later; however, current students (those matriculated and active before Fall 2013) will be grandfathered under the prior policy/practice, whose grade and GPA requirements are the same as Academic Review Category 3.

Master's Degrees**Master of Arts in Arts Administration (M.A.)**

The Master of Arts (M.A.) in Arts Administration will provide students with the business, marketing, and administrative skills needed to initiate their own performing arts organizations or to secure stable administrative positions in regional or national arts venues or institutions. This program provides vital, up-to-date strategies taught by well-known working professionals representing disciplines of visual arts, music, theatre, dance, and business. Students who graduate from this program will be prepared to pursue careers in theatre management or other administrative roles such as gallery directors, music producers, and dance company managers or as arts/cultural entrepreneurs.

Program Requirements**Required Courses**

30 s.h.

(s.h.: semester hours/credit hours)

Course #	Course Title	S.H.
THD 07505 or THD 07515	Independent Study in Graduate Arts Administration Internship in the Arts	3
THD 07511	Production/Performance/Arts Administration Project	3
THD 07537	Advocacy and Arts Policy	3
THD 07530	Arts Administration Leadership	3
THD 07531	Producing & The Arts	3
THD 07532	Arts Planning: An Elegant Process	3
THD 07533	Audience Development	3
THD 07534	Education & Outreach Programs in the Arts	3
THD 07535	Curatorial Practice in the Arts	3
THD 07536	Fundraising & Development for the Arts	3

Total Required Credits for the Program

30 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark, and Thesis Requirements

None

Minimum Required Grades and Cumulative GPA

The Master of Arts in Arts Administration is a Category 2 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Advisor Contact Information**Elisabeth Hostetter****Wilson Hall****856.256.4034****Master of Arts in Music Education (M.A.)**

The Master of Arts in Music Education (M.A.) prepare students to inquire about teaching and learning music through the research process, with a dual focus on the integration of social justice and technology in music education. Graduate students in this program may personalize their individual curriculum by choosing graduate electives from within the music department as well as from the College of Education to tailor their own professional growth towards their personal career goals. Students in this program should already be certified music teachers with a bachelor's degree in music education. As such, the course work can be completed by taking courses during the semester and/or during summer sessions, on-campus and/or online, at the pace that works best for the individual. This enables working teachers to retain their fulltime employment within the school while honing their skills as an educator and musician.

Program Requirements**Required Foundational Coursework**

15 s.h.

(s.h.: semester hours/credit hours)

Course #	Course Title	S.H.
MUS 5010	Research Methods in Music Education	3
MUS 50120	History of Music Education	3

MUS 50130	Equity, Access, and Music Education	3
MUS 50140	Psychology and Sociology of Music Education	3
MUS 50150	Philosophy of Music Education	3

Electives* 15 s.h.

(s.b.: semester hours/credit hours)

Course #	Course Title	S.H.
MUS 50210	Special Topics Seminars in Music Education (2 seminars required)	6
	Music or Education Electives	9

*Students must choose to take nine hours of electives from the existing graduate courses available in the Music Department, or from the College of Education with the permission of their Music Education Faculty Advisor and the course instructor, to personalize the degree program as is appropriate to their individual professional goals and interests.

Capstone 3 s.h.

(s.b.: semester hours/credit hours)

Course #	Course Title	S.H.
MUS 50910	Master's Final Project & Presentation	3
	OR	
MUS 509200	Master's Thesis Music Education	3

Total Required Credits for the Program 33 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark, and Thesis Requirements

A Final Research Project and Presentation OR a Master's Thesis that is presented to and approved by the faculty in the music education department is required.

Minimum Required Grades and Cumulative GPA

The Master of Arts in Music Education is a Category 2 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Advisor Contact Information

Rachel Brashier
Wilson Hall
856.256.3532
brashier@rowan.edu

Master of Music Overview

The Master of Music program provides intensive experiences in performance, conducting, jazz studies, or composition as well as courses geared to enhance the student's knowledge and understanding of the literature of their area of concentration, and a greater understanding of music in general. The Master of Music program at Rowan University is for the aspiring musician who wishes to make a career as a jazz musician, classical performer, conductor, or composer or will continue their studies at the Ph.D. or M.A. level. Graduates of Rowan's Master of Music program have gone on to major doctoral programs, performing careers, arts leadership positions, and careers as college professors and public school teachers.

Master of Music Concentrations

The Master of Music program offers the degree with four concentrations as detailed below:

- Composition
- Conducting (Instrumental or Choral)
- Performance (Instrumental or Vocal)
- Jazz Studies

Notes:

- Students will officially declare their concentration at the time of application during the audition.
- Concentration requirements may only be modified by permission of the program coordinator.

The Master of Music requires 32-40 semester hours depending upon the concentration selected at the time of application. The Master of Music degree at Rowan University is designed to be 4 semesters long.

Students will take Music Theory and Music History placement exams the first week of classes (not admission bearing).

Admissions

A performance audition or portfolio review is required for admission to the Master of Music program. Audition requirements for each instrument or area of concentration can be found at www.rowan.edu/music/auditions.

An appointment for audition will be scheduled once the candidate's application is complete. The auditions are scheduled on an individual basis according to the following procedures:

- **Voice, Instrument, Jazz Studies:** This audition can be taken during the academic year (September through April) by appointment.
- **Conducting:** If a candidate is invited to Phase 2 of the audition process, this audition must be scheduled during the academic year (October through April).
- **Composition:** The composition portfolio and accompanying materials can be submitted year round.

An audition can be scheduled by contacting Professor Veda Zuponicic, Academic Advisor, at zuponicic@rowan.edu or 856-256-4500 ext. 53563.

For the most up-to-date information regarding admission requirements, entry points, and application deadlines, please visit www.rowanu.com/programs. Click on your program of interest to be connected to program and admission details.

Master of Music: Composition (M.M.)**Program Requirements**

See the Master of Music Overview.

Required Courses

12 s.h.

(s.h.: semester hours/credit hours)

Course #	Course Title	S.H.
MUS 04560	Form and Analysis (Or Counterpoint if Form and Analysis was completed at the UG level)	3
MUS 04570	20th Century Literature & Techniques	3
MUSG 05547	Music & the Related Arts	3
SMED 32502	Teaching Music Theory	3

Required Concentration Courses**Group A**

12–16 s.h.

Choose 12–16 s.h. from the following. Be sure to include at least one offering each of Composition I and one offering of Composition II.

Course #	Course Title	S.H.
MUS 10525	Graduate Music Composition I	4
MUS 10526	Graduate Music Composition II	4
MUS 10527	Graduate Music Composition I	6
MUS 10528	Graduate Music Composition II	6

Group B

2 s.h.

Choose 2 s.h. from the following (Course numbers rotate each semester.)

Course #	Course Title	S.H.
MUS 10537 - MUS 10540	Graduate Ensemble: Concert Choir	1
MUS 10541 - MUS 10544	Graduate Ensemble: Jazz Band	1
MUS 10545 - MUS 10548	Graduate Ensemble: Lab Band	1
MUS 10549 - MUS 10552	Graduate Ensemble: Orchestra	1
MUS 10553 - MUS 10556	Graduate Ensemble: Wind Ensemble	1
MUS 10569 - MUS 10572	Graduate Ensemble: Chamber Music	1
MUS 10576 - MUS 10579	Graduate Ensemble: Contemporary Music	1

Group C

2 s.h.

Choose 2 s.h. from the following.

Course #	Course Title	S.H.
MUS 10501	Graduate Secondary Applied Instrument I	2
MUS 10505	Graduate Secondary Applied Voice I	2

Elective Courses

5–8 s.h.

Choose courses from the following to total 5–8 semester hours.

Course #	Course Title	S.H.
MUS 04541	Jazz Piano (non-keyboard students)	1
MUS 04551	Piano Accompanying	1
MUS 04555	Counterpoint	3

MUS 04557	Advanced Orchestration	3
MUS 04561	Score Reading I	1
MUS 04562	Score Reading II	1
MUS 04565	Seminar in Band Conducting	3
MUSG 06503	Jazz History	3
MUSG 06506	Art Song Literature	3
MUSG 06509	String Instrument Literature	3
MUSG 06511	Survey of 20th Century Band Literature	3
MUSG 06542	Opera Literature	3
MUSG 06545	Development & Interpretation of Choral Literature	2
MUSG 06546	Development & Interpretation of Symphonic Literature	3
MUSG 06510	Keyboard Literature	3
SMED 32507	Piano Pedagogy	3

Total Required Credits for the Program 33-40 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark, and Thesis Requirements

- Culminating Experience (Recital)
- Successful completion of oral comprehensive exam

Minimum Required Grades and Cumulative GPA

The Master of Music is a Category 2 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Advisor Contact Information

Veda Zuponic
Wilson Hall
856.256.4500 ext. 53563
zuponic@rowan.edu

Master of Music: Conducting (Instrumental or Choral) (M.M.)

See the Master of Music Overview. The following three focus areas are available for a Master of Music in Conducting:

- Choral Conducting
- Orchestral Conducting
- Wind Conducting

Program Requirements

Required Courses 8 s.h.

(s.h.: semester hours/credit hours)

<u>Course #</u>	<u>Course Title</u>	<u>S.H.</u>
MUS 04560	Form & Analysis (Or Counterpoint if Form and Analysis was completed at the UG level)	3
MUS 04561	Score Reading I	1
MUS 04562	Score Reading II	1
MUSG 05547	Music & the Related Arts	3

Required Concentration Courses

Group A 12-16 s.h.

Choose 12-16 s.h. from the following.

<u>Course #</u>	<u>Course Title</u>	<u>S.H.</u>
MUS 10529	Graduate Conducting I	4
MUS 10530	Graduate Conducting II	4
MUS 10531	Graduate Conducting III	4
MUS 10532	Graduate Conducting IV	4
MUS 10533	Graduate Conducting I	6
MUS 10534	Graduate Conducting II	6

Group B 2-4 s.h.

Choose 2-4 s.h. from the following. (Course numbers rotate each semester.)

Course #	Course Title	S.H.
MUS 10537 - MUS 10540	Graduate Ensemble: Concert Choir	1
MUS 10541 - MUS 10544	Graduate Ensemble: Jazz Band	1
MUS 10545 - MUS 10548	Graduate Ensemble: Lab Band	1
MUS 10549 - MUS 10552	Graduate Ensemble: Orchestra	1
MUS 10553 - MUS 10556	Graduate Ensemble: Wind Ensemble	1
MUS 10561 - MUS 10564	Graduate Ensemble: Statesmen	1
MUS 10565 - MUS 10568	Graduate Ensemble: Women's Choir	1
MUS 10569 - MUS 10572	Graduate Ensemble: Chamber Music	1
Required Focus Area Courses		2-4 s.h.

Students select one focus area from the three below.

Choral Conducting Focus Area

Choose 9 s.h. from the following.

Course #	Course Title	S.H.
MUS 04514	Choral Procedures	2
MUSG 06542	Opera Literature	3
MUSG 06545	Development & Interpretation of Choral Literature	2
TBD	Select an approved French or Italian or German language course	3

Orchestral Conducting Focus Area

Choose 9 s.h. from the following.

Course #	Course Title	S.H.
MUS 04557	Advanced Orchestration	3
MUSG 06542	Opera Literature	3
MUSG 06546	Development & Interpretation of Symphonic Literature	3

Wind Conducting Focus Area

Choose 9 s.h. from the following.

Course #	Course Title	S.H.
MUS 04557	Advanced Orchestration	3
MUS 04565	Seminar in Band Conducting	3
MUSG 06511	Survey of 20th Century Band Literature	3

Elective Courses

3 s.h.

Choose 3 s.h. from the following.

Course #	Course Title	S.H.
MUS 04551	Piano Accompanying	1
MUSG 06503	Jazz History	3
MUSG 06506	Art Song Literature	3
MUSG 06509	String Instrument Literature	3
MUSG 06542	Opera Literature	3
MUSG 06545	Development & Interpretation of Choral Literature	2
MUSG 06546	Development & Interpretation of Symphonic Literature	3
MUSG 06510	Keyboard Literature	3
SMED 32507	Piano Pedagogy	3

Total Required Credits for the Program

34-40 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark, and Thesis Requirements

- Culminating Experience (Recital)
- Successful completion of oral comprehensive exam

Minimum Required Grades and Cumulative GPA

The Master of Music is a Category 2 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Advisor Contact Information

Veda Zuponic
Wilson Hall
856.256.4500 ext. 53563
zuponic@rowan.edu

Master of Music: Jazz Studies (M.M.)

See the Master of Music Overview.

Program Requirements

Required Courses

18 s.h.

(s.h.: semester hours/credit hours)

<u>Course #</u>	<u>Course Title</u>	<u>S.H.</u>
MUS 04540	Jazz Arranging	3
MUS 05503	Jazz Composition	3
MUS 05500	Analyzing Jazz Structures A	1
MUS 05501	Analyzing Jazz Structures B	1
MUS 05502	Analyzing Jazz Structures C	1
MUS 40315	Music Entrepreneurship	3
MUSG 06503	Jazz History	3
MUSG 05547	Music & the Related Arts	3

Required Concentration Courses

Group A

12 s.h.

<u>Course #</u>	<u>Course Title</u>	<u>S.H.</u>
MUS 10509	Graduate Applied Instrument I	4
MUS 10510	Graduate Applied Instrument II	4
MUS 10511	Graduate Applied Instrument III	4

Group B

2 s.h.

Choose 2 s.h. from the following. (Course numbers rotate each semester.)

<u>Course #</u>	<u>Course Title</u>	<u>S.H.</u>
MUS 10541 - MUS 10544	Graduate Ensemble: Jazz Band	1
MUS 10545 - MUS 10548	Graduate Ensemble: Lab Band	1

Total Required Credits for the Program

32 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark, and Thesis Requirements

- Culminating Experience (Recital)
- Successful completion of oral comprehensive exam

Minimum Required Grades and Cumulative GPA

The Master of Music is a Category 2 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Advisor Contact Information

Robert Rawlins

Wilson Hall

856.256.4500 ext. 53764

rawlinsr@rowan.edu

Master of Music: Performance (Instrumental or Vocal) (M.M.)

See the Master of Music Overview.

The following four focus areas are available for a Master of Music in Performance:

- Orchestral Instruments
- Guitar
- Keyboard
- Voice

Program Requirements

Required Courses

6 s.h.

(s.h.: semester hours/credit hours)

Course #	Course Title	S.H.
MUS 04560	Form and Analysis (Or Counterpoint if Form and Analysis was completed at the UG level)	3
MUSG 05547	Music and the Related Arts	3
Required Graduate Performance Music Courses		12–16 s.h.
Choose 12–16 s.h. from the following.		
Course #	Course Title	S.H.
MUS 10509	Graduate Applied Instrument I	4
MUS 10510	Graduate Applied Instrument II	4
MUS 10511	Graduate Applied Instrument III	4
MUS 10512	Graduate Applied Instrument IV	4
MUS 10513	Graduate Applied Voice I	4
MUS 10514	Graduate Applied Voice II	4
MUS 10515	Graduate Applied Voice III	4
MUS 10516	Graduate Applied Voice IV	4
MUS 10517	Graduate Applied Instrument I	6
MUS 10518	Graduate Applied Instrument II	6
MUS 10519	Graduate Applied Instrument III	6
MUS 10520	Graduate Applied Instrument IV	6
MUS 10521	Graduate Applied Voice I	6
MUS 10522	Graduate Applied Voice II	6
MUS 10523	Graduate Applied Voice III	6
MUS 10524	Graduate Applied Voice IV	6
Required Concentration Courses		2–4 s.h.
Choose 2–4 s.h. from the following. (Course numbers rotate each semester.)		
Course #	Course Title	S.H.
MUS 10537 - MUS 10540	Graduate Ensemble: Concert Choir	1
MUS 10541 - MUS 10544	Graduate Ensemble: Jazz Band	1
MUS 10545 - MUS 10548	Graduate Ensemble: Lab Band	1
MUS 10549 - MUS 10552	Graduate Ensemble: Orchestra	1
MUS 10553 - MUS 10556	Graduate Ensemble: Wind Ensemble	1
MUS 10557 - MUS 10560	Graduate Ensemble: Opera Company	1
MUS 10569 - MUS 10572	Graduate Ensemble: Chamber Music	1
Required Focus Area Courses		2–11 s.h.
Students select one focus area from the four below.		
Orchestral Instruments Focus Area		
Students in this focus area complete 2 s.h. as follows.		
Course #	Course Title	S.H.
MUS 04536	Chamber Music I	1
MUS 04537	Chamber Music II	1
Guitar Focus Area		
Students in this focus area complete 8 s.h. as follows.		
Course #	Course Title	S.H.
MUS 04536	Chamber Music I	1
MUS 04537	Chamber Music II	1
MUSG 06505	History and Literature of Guitar and Lute	3
SMED 32506	Guitar Pedagogy	3
Keyboard Focus Area		
Students in this focus area complete 7 s.h. as follows.		
Course #	Course Title	S.H.
MUS 04551	Piano Accompanying	1
MUSG 06510	Keyboard Literature	3
SMED 32507	Piano Pedagogy	3
Vocal Focus Area		
Students in this focus area complete 11 s.h. as follows.		
Course #	Course Title	S.H.
MUS 04545	Select an approved French or Italian or German language course	3
	Opera Role Study I	3

MUS 04546	Opera Role Study II	3
MUS 04551	Piano Accompanying	1
MUSG 06506	Art Song	3
MUSG 06542	Opera Literature	3

Elective Courses

3–12 s.h.

Students select one focus area from the four below.

- Students in the Orchestral Instruments focus area choose 12 s.h. from the following.
- Students in the Guitar focus area choose 5 s.h. from the following.
- Students in the Keyboard focus area choose 7 s.h. from the following.
- Students in the Vocal focus area choose 3 s.h. from the following.

Course #	Course Title	S.H.
MUS 04536	Chamber Music I	1
MUS 04537	Chamber Music II	1
MUS 04541	Jazz Piano	1
MUS 04545	Opera Role Study	3
MUSG 06503	Jazz History	3
MUSG 06506	Art Song Literature	3
MUSG 06509	String Instrument Literature	3
MUSG 06542	Opera Literature	3
MUSG 06545	Development & Interpretation of Choral Literature	2
MUSG 06546	Development & Interpretation of Symphonic Literature	3
SMED 32502	Teaching Music Theory	3
MUSG 06510	Keyboard Literature	3
SMED 32507	Piano Pedagogy	3

Total Required Credits for the Program

34–38 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark, and Thesis Requirements

- Culminating Experience (Recital)
- Successful completion of oral comprehensive exam

Minimum Required Grades and Cumulative GPA

The Master of Music is a Category 2 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Advisor Contact Information**Veda Zuponic****Wilson Hall****856.256.4500 ext. 53563****zuponic@rowan.edu****Post-Baccalaureate Certificate in Music Therapy**

Rowan University's Music Therapy Post-Baccalaureate Certificate is intended for students who have already completed a Bachelor's in Music. This program will be offered in conjunction with the Bachelor of Music in Music Therapy. Students in the program will be prepared to become a Board-Certified Music Therapist and to continue in graduate studies in Music Therapy.

Program Requirements**Required Courses**

38 s.h.

(s.h.: semester hours/credit hours)

Course #	Course Title	S.H.
MUS 98101	Foundations of Music Therapy	3
MUS 98108	Psychology of Music	3
MUS 98102	Principles of Music Therapy I	3
MUS 98109	Principles of Music Therapy II	3
MUS 98110	Music Therapy Research Methods	3
MUS 98104	Therapeutic Principles	1
MUS 98103	Music Therapy Practicum I	1

MUS 98111	Music Therapy Practicum II	1
MUS 98115	Music Therapy Practicum III	1
MUS 98117	Residency in Music Therapy (repeated for two semesters, 4 credits total)	2
MUS 98105	Clinical Piano Skills I	2
MUS 98112	Clinical Piano Skills II	2
MUS 98106	Clinical Guitar Skills	2
MUS 98107	Music Applications to Music Therapy I	1
MUS 98113	Music Applications to Music Therapy II	1
MUS 98116	Music Applications to Music Therapy III	1
PSY 09305	Developmental Psychopathology	3
PSY 03200	Abnormal Psychology	3
<u>Total Required Credits for the Program</u>		38 s.h.

Foundation Courses

Essentials of Psychology, Abnormal Psychology, and Developmental Psychopathology

Graduation/Exit, Benchmark, and Thesis Requirements

This program requires successful completion of the Residency in Music Therapy Capstone course, which includes a 1040-hour internship.

Minimum Required Grades and Cumulative GPA

The Post-Baccalaureate Certificate in Music Therapy is a Category 3 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Advisor Contact Information

Andrea McGraw Hunt

Wilson Hall

856.256.4032

hunata@rowan.edu

College of Humanities & Social Sciences

Nawal Ammar
Dean
Bunce Hall 218
856.256.5840
ammar@rowan.edu

Corinne Blake
Associate Dean
Bunce Hall 218
856.256.5842
blake@rowan.edu

Stephen Fleming
Assistant Dean
Bunce Hall 218
856.256.5844
flemings@rowan.edu

Mission

1. Empower students to create innovative academic pathways so that they may become successful and adaptable leaders and innovators with a lasting impact on society.
2. Faculty and students engage with local and global communities to conduct transformative research that mobilizes knowledge to benefit society.
3. Grow and develop mutually beneficial connections among students, faculty, and community partners to reimagine the future.

Vision

Empower. Transform. Engage.

Creating connections in teaching, research, and service to advance society.

Departments

The College of Humanities & Social Sciences (CHSS) has seven departments — English, History, Law and Justice Studies, Philosophy and World Religions, Political Science and Economics, Sociology and Anthropology, and World Languages — as well as a Center for Interdisciplinary Studies.

Services

CHSS Match Internship Program

In partnership with the Office of Career Advancement, the College coordinates an internship program through which students from any college can earn up to 12 credits through approved internship experiences.

Hollybush Institute

This institute builds on the legacy of the 1967 Glassboro Summit by promoting scholarly research, educational activities, and community outreach related to the history and practice of international dialogue to promote global security, peace, and the rule of law. Imbued with the “Spirit of Glassboro,” as President Lyndon Johnson called it, the Institute builds bridges between the humanities and the arts and sciences to inspire innovative global thinking.

Liberal Arts and Sciences Institute for Research and Community Service

The College operates the Liberal Arts and Sciences Institute for Research and Community Service, which offers a variety of seminars and workshops, as well as research support and community assistance.

The Museum of Anthropology at Rowan University (MARU)

The Museum of Anthropology at Rowan University serves the academic mission of the university as a unit for teaching and learning that contributes to academic excellence. Its collections, public service programs, and research serve to enhance the public understanding and appreciation of the human experience.

Rowan Center for Holocaust and Genocide Studies (RCHGS)

The Rowan Center for Holocaust and Genocide Studies is a leading center in New Jersey for teaching about the Holocaust and other genocides. The RCHGS offers a range of programs each semester dedicated to combatting bias, prejudice, and anti-Semitism by highlighting human rights and the dignity of every person.

Programs Offered

All programs offered are listed below in order of degree/program type and then in alphabetical order by program name. Details about each program are then listed within the catalog in the same order. For the most up-to-date information regarding mode of delivery options for your program of interest, please visit www.rowanu.com/programs.

MASTER'S DEGREES

<u>Program Name</u>	<u>Format/location</u>	<u>Program/Major Codes</u>	<u>Avail FT/PT</u>	<u>Total credits</u>
Master of Arts in Criminal Justice	100% Online, Blended, and Face-to-Face at Glassboro Campus	MA-CRIMJUST/G105	Both	30
Master of Arts in History	Face-to-Face at Glassboro campus	MA-HIST/G205	Both	30

CERTIFICATES OF GRADUATE STUDY (NON-DEGREE)

<u>Program Name</u>	<u>Format/location</u>	<u>Program/Major Codes</u>	<u>Avail FT/PT</u>	<u>Total credits</u>
Certificate of Graduate Study in Diversity and Inclusion	Face-to-Face at Glassboro campus	COG-DIVERSIN/G144	Both	12
Certificate of Graduate Study in Global History	Face-to-Face at Glassboro campus	COG-WRLDHIS/G121	Both	15
Certificate of Graduate Study in History	Face-to-Face at Glassboro campus	COG- HISTORY/G120	Both	15
Certificate of Graduate Study in Holocaust and Genocide Education	Face-to-Face at Glassboro campus	COG- HOLGENED/G924	Both	12
Certificate of Graduate Study in Public Policy	Face-to-Face at Glassboro campus	COG- PUBPLCY/G928	Both	9
Certificate of Graduate Study in Urban Health Disparities	Face-to-Face at Camden campus	COG-UHDISP/G923	Both	12

UNDERGRADUATE DEGREE-COMPLETION PROGRAMS

(These programs lead to bachelor's degrees. They are offered through the Division of Global Learning & Partnerships but official course descriptions and more about the program as a whole are included in Rowan's Undergraduate Catalog: www.rowan.edu/catalogs.)

<u>Program Name</u>	<u>Format/location</u>	<u>Program/Major Codes</u>	<u>Avail FT/PT</u>	<u>Total credits</u>
Bachelor of Arts in Disaster Preparedness and Emergency Management	Face-to-Face/Camden campus	BA-DPEM/4300	Both	120
Bachelor of Arts in Human Services	Face-to-Face/Camden campus	BA-HUMSVC/3101	Both	120
Bachelor of Arts in Law & Justice Studies	Face-to-Face/Camden campus, 100% Online and Accelerated	BA- LAWJUST/2105	Both	120
Bachelor of Arts in Liberal Studies: Humanities/Social Science	100% Online and Accelerated	BA-LIBSTU/4933	Both	120
Bachelor of Arts in Sociology	Face-to-Face/Camden campus	BA-SOC/2208 (General Program) BA-SOC/2209 (Applied Sociology Concentration)	Both	120

CERTIFICATES OF UNDERGRADUATE STUDY (NON-DEGREE)

Program Name	Format/location	Program/Major Codes	Avail FT/PT	Total credits
Certificate of Undergraduate Study in Human Services Administration	Face-to-Face at Camden campus	CUGS-HUMSERC/U161	Both	15
Certificate of Undergraduate Study in Human Services Criminal Justice	Face-to-Face at Camden campus	CUGS-HUMSERC/U163	Both	15
Certificate of Undergraduate Study in Human Services Direct Care	Face-to-Face at Camden campus	CUGS-HUMSERC/U162	Both	15

Admissions

For the most up-to-date information regarding admission requirements, entry points, and application deadlines, please visit www.rowanu.com/programs. Click on your program of interest to be connected to program and admission details.

Academic Program Policy Categories

For the purposes of both the Minimum Satisfactory Academic Progress policy and the Minimum Graduation Requirements policy, post-baccalaureate/graduate academic programs administered by Rowan Global at Rowan University fall into one of three major categories which are identified by their grade requirements as outlined below. (See individual program descriptions for academic categories.)

Category 1: To maintain Minimum Satisfactory Academic Progress in and to successfully graduate from a Category 1 program students must:

- Earn no more than two total “B-“ grades
- Earn no grades lower than a “B-”
- Earn an official cumulative GPA (according to matriculation level) of at least 3.000 on Rowan’s 4.000 scale

Category 2: To maintain Minimum Satisfactory Academic Progress in and to successfully graduate from a Category 2 program students must:

- Earn no grades lower than a “B-”
- Earn an official cumulative GPA (according to matriculation level) of at least 3.000 on Rowan’s 4.000 scale

Category 3: To maintain Minimum Satisfactory Academic Progress in and to successfully graduate from a Category 3 program students must:

- Earn no more than two total C grades of any combination of “C+” or “C.” (C- grades are not acceptable.)
- Earn no grades lower than a “C”
- Earn an official cumulative GPA (according to matriculation level) of at least 3.000 on Rowan’s 4.000 scale

Policy Prior to Fall 2013 Matriculation

The academic review and minimum graduation requirements review policies will be applied to Rowan graduate and post-baccalaureate students who matriculate beginning Fall 2013 or later; however, current students (those matriculated and active before Fall 2013) will be grandfathered under the prior policy/practice, whose grade and GPA requirements are the same as Academic Review Category 3.

Master's Degrees**Master of Arts in Criminal Justice (M.A.)**

The Master of Arts in Criminal Justice prepares students for leadership positions in criminal justice agencies; for research positions in federal, state, county, city, non-profit and private research institutions; and for further study in doctoral programs. There are many different ways to obtain a Master of Arts in Criminal Justice degree at Rowan University, and all of the options consist of ten courses or 30 credits. Students can take evening courses in the classroom, either part-time or full-time. In this traditional face-to-face program they can pursue the Thesis Track or the Non-Thesis Track. The entire program also is offered online on a part-time basis, and students can take a mix of face-to face and online classes. For students who are still undergraduates, there is an opportunity to apply to the Combined Advanced Degree Program that enables students to earn their Bachelor of Arts in Law and Justice Studies and Master of Arts in Criminal Justice in five years.

All of these options focus on the growing emphasis in the criminal justice system on using research evidence to evaluate the effectiveness of programs and policies aimed at preventing and controlling crime. Graduate faculty have earned doctoral degrees from the best Criminal Justice programs in the country and have practical experience working in the system. The curriculum prepares students for professional careers by providing an understanding of the causes of crime, the impact of law on society and contemporary issues in policing, courts and corrections.

Tracks

The Face-to-face program on the Glassboro campus offers students the options of choosing one of two tracks. All students take the same six required core courses, but the remaining four courses and graduation exit requirements are different, as described below. The Thesis Track is not available to Online or Combined Advanced Degree students.

- **Thesis Track:** Students choosing the Thesis Track will complete 6 required core courses, select two electives, and earn six credits for doing research and writing a thesis while working closely with experienced faculty.
- **Non-Thesis Track:** Students choosing the Non-Thesis Track will complete 6 required core courses, select four electives, and take a comprehensive exam after completing their coursework. Online and Combined Advanced Degree students follow the Non-Thesis Track.

Rowan University undergraduates majoring in Law and Justice Studies can apply to the Combined Advanced Degree Program during their Junior years, which allows them to earn both the Bachelor of Arts in Law and Justice Studies and Master of Arts in Criminal Justice degrees in five years, double count four graduate courses towards both the undergraduate and graduate degrees, and pay undergraduate tuition for those four courses.

Program Requirements**Required Core Courses**

18 s.h.

(s.h.: semester hours/credit hours)

Course #	Course Title	S.H.
CJ 09510	Contemporary Issues in Criminal Justice	3
CJ 09511	Research Methods I	3
CJ 09512	Research Methods II	3
CJ 09515	Law and Society	3
CJ 09517	Criminal Justice Policy Analysis	3
CJ 09518	Contemporary Developments in Theory	3

Elective Courses

6-12 s.h.

Choose 6 s.h. (Thesis Track) or 12 s.h. (Non-Thesis Track) of approved electives in consultation with the Academic Advisor.

Course #	Course Title	S.H.
CJ 09516	Administrative Law/Ethics	3
CJ 09519	Seminar in Criminal Justice Planning	3
CJ 09520	Courts and Supportive Agencies	3
CJ 09521	Prevention and Rehabilitation	3
CJ 09522	Seminar in Violence	3
CJ 09523	White Collar Crime	3
CJ 09524	Police and Society	3
CJ 09525	Altruism, Cooperation, and Criminal Justice	3
CJ 09526	Management of Criminal Justice Organizations	3
CJ 09527	Gender and Crime	3
CJ 09528	Seminar in Juvenile Justice and Delinquency	3
CJ 09529	Community Justice	3
CJ 09530	International Criminal Law Seminar	3
CJ 09532	Race, Ethnicity, Class & Justice	3
	Other approved graduate-level courses as approved by Academic Advisor	3

Required Thesis Courses (if Thesis-Track is selected)		6 s.h.
Course #	Course Title	S.H.
CJ 09601	Master's Thesis in Criminal Justice I	3
CJ 09602	Master's Thesis in Criminal Justice II	3
Total Required Credits for the Program		30 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark, and/or Thesis Requirements

- Successful completion of a comprehensive exam is required for those who select the Non-Thesis Track, for Online students, and for those in the Combined Advanced Degree Program.
- If Thesis Track is selected, students must successfully complete and defend Master's Thesis.

Minimum Required Grades and Cumulative GPA

The Master of Arts in Criminal Justice is a Category 2 program.

*For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.***Contact Information****Program Coordinator/Academic Advisor**

Wanda D. Foglia
Campbell Library
856.256.4399
foglia@rowan.edu

Master of Arts in History (M.A.)

The Master of Arts in History at Rowan is designed mainly for students who desire increased competence in historical studies preparatory or supplementary for teaching in that field on the high school or community college level. It is also appropriate for students who seek qualification for admission to a doctoral program at another institution and for students who wish to pursue a liberal education at an advanced level for intellectual challenge and personal self-fulfillment.

Our program is set in the tradition of a Liberal Arts education. Courses offer an opportunity for students to extend their knowledge and enhance their competence in historical studies through direct, face-to-face interaction with Rowan's award-winning, full-time faculty members.

Total graduate semester hours required for program completion is 30. Students are encouraged to devote at least 12 credits of their electives to pursuing an area of concentration in American, European, or global history, but they must take at least one course in another area. Up to 6 credits may be taken as independent study, and students may take one elective graduate course outside of the History Program, chosen in consultation with the graduate advisor.

Tracks

The program includes two tracks. Each has different course and graduation exit requirements which are outlined in the chart.

- **Thesis Track:** The Master of Arts Thesis Track is designed for those who are interested in pursuing original research and is strongly recommended for those who are planning to do doctoral work in history. Students pursuing the thesis track will complete the 6 required credits, 18 elective graduate credits in history, and 6 credits of Master's Thesis.
- **Non-Thesis Track:** Students may choose to complete the degree by pursuing coursework without a thesis. This track may be appropriate for those seeking professional development or broader content knowledge. Students pursuing the non-thesis track will complete the 6 required credits and 24 elective graduate credits in history.

Rowan University undergraduates majoring in the Bachelor of Arts in History program can apply to the accelerated B.A./M.A. dual degree (4+1) program allowing them to earn both the Bachelor of Arts and Master of Arts degrees in five years.

Program Requirements

Required Courses		6 s.h.
<i>(s.h.: semester hours/credit hours)</i>		
Course #	Course Title	S.H.
HIST 05510	Readings & Research in History I	3
HIST 05512	Readings & Research in History II	3

Elective Courses

18-24 s.h.

Choose 24 s.h. (non-thesis track) or 18 s.h. (thesis-track) of approved electives in consultation with the Academic Advisor.

Course #	Course Title	S.H.
HIST 05506	Research Methods in History	3
HIST 05511	Colloquium in American History I	3
HIST 05514	Colloquium in American History II	3
HIST 05516	Colloquium in American History III	3
HIST 05522	Colloquium in European History I	3
HIST 05523	Colloquium in European History II	3
HIST 05524	Colloquium in European History III	3
HIST 05531	Colloquium in Global History I	3
HIST 05533	Colloquium in Global History II	3
HIST 05535	Colloquium in Global History III	3
HIST 05561	Early American History Seminar	3
HIST 05562	Nineteenth Century American History Seminar	3
HIST 05563	American History after 1917	3
HIST 05571	Ancient Mediterranean World Seminar	3
HIST 05572	Medieval and Early Modern European History Seminar	3
HIST 05573	Modern European History Seminar	3
HIST 05581	African History Seminar	3
HIST 05582	Middle Eastern History Seminar	3
HIST 05583	Russian History Seminar	3
HIST 05584	Latin American History Seminar	3
HIST 05585	East Asian History Seminar	3
HIST 05586	South and Southeast Asian Seminar	3
HIST 05545	History of Crime	3
HIST 05551	Graduate Independent Study	3

Required Thesis Courses (if thesis track is selected)

6 s.h.

Course #	Course Title	S.H.
HIST 05601	Master's Thesis in History I	3
HIST 05602	Master's Thesis in History II	3

Total Required Credits for the Program

30 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark, and/or Thesis Requirements

If thesis track is chosen, students must successfully complete and defend Master's Thesis.

Minimum Required Grades and Cumulative GPA

The Master of Arts in History is a Category 3 program.

*For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.***Program Coordinator/Advisor Contact Information****Scott Morschauser****Robinson Hall****morschauser@rowan.edu**

Certificates of Graduate Study (Non-degree)**Certificate of Graduate Study in Diversity and Inclusion (COGS)**

The Certificate in Graduate Study in Diversity and Inclusion will educate professionals who can help create diverse workspaces where innovation can thrive when people are able to work, volunteer, and govern because of their differences. Rooted in ethnographic methodology, the program will provide students with knowledge and methodologies to help specific organizations or institutions work towards building diverse and inclusive communities. This work requires deep knowledge of cultures, history, ideas, social structures, institutions, and politics, which are concepts the College of Humanities and Social Sciences [CHSS] has been exploring for generations.

Because this program is housed in CHSS and is grounded in disciplinary methodologies, graduates will be prepared to work in a wide range of contexts, adaptable to the needs of their industry or community. For most, this certificate will add an expertise for an existing professional to be a leader in issues of diversity and inclusion.

Program Requirements

- Total semester hours required graduate work for program completion: 12 Semester Hours (s. h.)

Required Courses

6 s.h.

(s.h.: semester hours/credit hours)

Course #	Course Title	S.H.
DI 68501	Introduction to Diversity and Inclusion Studies	3
ANTH 02510	Qualitative Research	3

Elective Courses

6 s.h.

(s.h.: semester hours/credit hours)

Choose 6 s.h. from the following options

Course #	Course Title	S.H.
PHIL 09521	Philosophical Approaches to Diversity, Equity and Identity	3
HIST 05519	History of Political and Social Movements	3
ENGL 02530	Diversity, Equity, and Inclusion in U.S. Literature	3

Total Required Credits for the Program

12 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark, and/or Thesis Requirements

None

Minimum Required Grades and Cumulative GPA

The Certificate of Graduate Study in Diversity and Inclusion is a Category 2 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Advisor Contact Information**Nadine Sullivan****Campbell Library, 5th Floor****856.256.4886****Sullivann@rowan.edu****Certificate of Graduate Study in Global History (COGS)**

The Certificate of Graduate Study in Global History offers an opportunity to study on a graduate level for professional or personal development. The courses will range from topics in Latin American, Russian, Asian, African and Middle Eastern history. Each offering will familiarize students with relevant primary and secondary sources, as well as up-to-date historical interpretations and methodologies in the respective fields.

Program Requirements

- Total semester hours required graduate work for program completion: 15 Semester Hours (s. h.)
- 12 s.h. must be in areas other than United States history

Required Courses 9 s.h.*(s.b.: semester hours/credit hours)*

Course #	Course Title	S.H.
HIST 05511	Colloquium in American History	3
HIST 05522	Colloquium in European History	3
HIST 05531	Colloquium in Global History	3

Elective Courses 6 s.h.

Select two courses jointly approved by the applicant and the graduate advisor.

Total Required Credits for the Program 15 s.h.**Foundation Courses**

None

Graduation/Exit, Benchmark, and/or Thesis Requirements

None

Minimum Required Grades and Cumulative GPA

The Certificate of Graduate Study in Global History is a Category 3 program.

*For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.***Program Coordinator/Advisor Contact Information****Scott Morschauser****Robinson Hall****morschauser@rowan.edu****Certificate of Graduate Study in History (COGS)**

The Certificate of Graduate Study in History offers an opportunity to study history on a graduate level for professional or personal development. The courses will familiarize students with relevant primary and scholarly sources as well as up to date historical interpretations and methodologies in the field.

Program Requirements

- Total semester hours required graduate work for program completion: 15 Semester Hours (s. h.)

Required Courses 9 s.h.*(s.b.: semester hours/credit hours)*

Course #	Course Title	S.H.
HIST 05511	Colloquium in American History I	3
HIST 05522	Colloquium in European History I	3
HIST 05531	Colloquium in Global History I	3

Elective Courses 6 s.h.

Select two courses jointly approved by the applicant and the graduate advisor.

Total Required Credits for the Program 15 s.h.**Foundation Courses**

None

Graduation/Exit, Benchmark, and/or Thesis Requirements

None

Minimum Required Grades and Cumulative GPA

The Certificate of Graduate Study in History is a Category 3 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Advisor Contact Information

Scott Morschauser
Robinson Hall
morschauser@rowan.edu

Certificate of Graduate Study in Holocaust and Genocide Education (COGS)

The Certificate of Graduate Study in Holocaust and Genocide Education (HGE) will be the first of its kind nationally. It brings together deep content knowledge with a strong constructivist pedagogy in order to help students consider what Holocaust and Genocide Education might look like across diverse settings. This curriculum could potentially serve both teachers and professionals in public programming of historical topics.

This program will fill a much-needed gap in higher education. By helping educators have both a better grasp of Holocaust and genocide content, as well as a mastery of constructivist pedagogies, the COGS in HGE will break new ground. Additionally, this is an essential program, as New Jersey is one of eight states with a Holocaust and Genocide teaching mandate. NJ requires K-12 teachers to teach about the Holocaust and other genocides “at the earliest possible moment.”

Program Requirements

- Total semester hours required graduate work for program completion: 12 Semester Hours (s. h.)

Required Courses

9 s.h.

(s.h.: semester hours/credit hours)

Course #	Course Title	S.H.
HGS 70507	Introduction to Holocaust and Genocide Education	3
HGS 70537	Holocaust and Genocide Education Program Evaluation and Creation	3
HIST 05522	Colloquium in European History: History of the Holocaust	3

Elective Courses

3 s.h.

(s.h.: semester hours/credit hours)

Choose one (1) course from the following:

Course #	Course Title	S.H.
HIST 05511	Colloquium in American History I	3
HIST 05522	Colloquium in European History I	3
HIST 05531	Colloquium in Global History	3

Total Required Credits for the Program

12 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark, and/or Thesis Requirements

None

Minimum Required Grades and Cumulative GPA

The Certificate of Graduate Study in Public Policy is a Category 2 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Advisor Contact Information

Jennifer Rich
Department of Sociology
richj@rowan.edu

Certificate of Graduate Study in Public Policy (COGS)

The Certificate of Graduate Study in Public Policy will provide students with a fundamental understanding of critical tools of effective policy analysis, including formal program evaluation, benefit-cost analysis, and an introduction to policy-relevant statistics. The program combines knowledge of essential administrative functions with the skills necessary to interpret and conduct actual studies, including assessment of the need for government intervention and how to use research on behalf of the public at large. The certificate will be valued by government and corporate employers, as well as nonprofit agencies and international organizations.

Program Requirements

- Total semester hours required graduate work for program completion: 9 Semester Hours (s. h.)

Required Courses

3 s.h.

*(s.b.: semester hours/credit hours)***Course #****Course Title****S.H.**

EDPA 02510

Introduction to Policy Analysis

3

Elective Courses

6 s.h.

(s.b.: semester hours/credit hours)

Choose two (2) courses from the following:

Course #**Course Title****S.H.**

EDPA 02520

Colloquium in Public Policy

3

POSC 07520

Colloquium in Political Science

3

ECON 04520

Colloquium in Economics

3

Total Required Credits for the Program

9 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark, and/or Thesis Requirements

Completion of all required coursework in accordance with University requirements for good standing.

Minimum Required Grades and Cumulative GPA

The Certificate of Graduate Study in Public Policy is a Category 3 program.

*For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.***Program Coordinator/Advisor Contact Information****Misty Knight-Finley****Robinson Hall****knightfinley@rowan.edu****Certificate of Graduate Study in Urban Health Disparities (COGS)**

The Certificate of Graduate Study in Urban Health Disparities provides a sequence of courses for those who wish to work in a variety of settings geared toward community health advocacy and leadership or other positions in non-profit organizations, hospitals, business, community health organizations, governmental agencies, non-governmental organizations, research and advocacy groups, faith-based institutions, and educational institutions. The program's focus on health care inequity, health care access, and social justice issues will enhance students' marketability for leadership positions in organizations seeking individuals with social action and community-health knowledge. The Urban Health Research Studio experience can be an applied community-based field experience (whenever possible) or a pure research endeavor with Rowan University faculty members.

Program Requirements**Required Courses**

12 s.h.

*(s.b.: semester hours/credit hours)***Course #****Course Title****S.H.**

SOC 08575

Social Determinants of Health: Theory and Intervention in Urban Settings

3

SOC 08599

Urban Environmental Health

3

SOC 08600

Social Experience of City Life and Urban Inequalities

3

SOC 08690

Urban Health Research Studio

3

Total Required Credits for the Program

12 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark, and/or Thesis Requirements

None

Minimum Required Grades and Cumulative GPA

The Certificate of Graduate Study in Urban Health Disparities is a Category 3 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Advisor Contact Information

DeMond Miller

Campbell Library

856.256.4500 ext. 53517

millerd@rowan.edu

Undergraduate Degree-Completion Programs

Overview

The following programs lead to a Bachelor's degree. These programs are offered through the Division of Global Learning & Partnerships, but official course descriptions and more about the program as a whole are included in Rowan's Undergraduate Catalog: www.rowan.edu/catalogs.

Bachelor of Arts in Disaster Preparedness and Emergency Management (B.A.)

The Bachelor of Arts in Disaster Preparedness and Emergency Management is an interdisciplinary academic program designed to provide rigorous academic preparation for students interested in seeking advanced professional homeland security education and training or a career in international, national, state, and local disaster preparedness, emergency management, and safety areas with an emphasis on urban environments. The current focus areas include biomedical preparedness (in conjunction with the Cooper Medical School of Rowan University), public administration and civic leadership, and civil safety/justice administration, all of which lead to establishing core competencies in emergency preparedness. In addition to providing students with a broad understanding of safety and security issues, the Disaster Preparedness and Emergency Management degree program focuses on several vital components of the emergency management field:

- Critical Infrastructure Protection
- Disaster Preparedness and Response
- Intelligence Sharing and Analysis

Graduates will be prepared to work in a variety of settings and agencies that focus on emergency rescue and response, homeland security, hospitals, municipal emergency management, county emergency management, safety management, intelligence analysis, private security, airports, state and local law enforcement, Federal law enforcement, customs investigators, special agents, military service and border security and patrol. The upper-level courses for this major are offered on the Camden Campus of Rowan University.

General Education

All students starting *before* Fall 2018 and transfer students must complete the University General Education Requirements as described on page 13.

Rowan Core

All first-time Freshmen starting in Fall 2018 or after must complete the University Rowan Core Requirements as described on page 15.

Program Requirements

The Disaster Preparedness and Emergency Management program consists of 120 s.h. of coursework, including 33 s.h. of core requirements coursework, and 6 s.h. of focus area courses. The 33 s.h. of core major requirements provide a common foundation for all majors with an emphasis on ethics to assist the student in developing complex thinking skills. As part of the 33 s.h. of core courses, each student will complete a 3 s.h. internship experience designed to provide an experiential learning opportunity and to give the student a more practical view of the intended career path. In addition to the core requirements, general education requirements, and electives, each student will choose a focus area:

- **Focus Area 1:** Public Administration and Policy for Crisis Decision Leadership- 6 additional s.h. of Political Science/Public Administration, Disaster Leadership or Risk Analysis coursework
- **Focus Area 2:** Justice, Safety and Homeland Security Administration- 6 additional s.h. of Law & Justice coursework with focus on Homeland Security or Risk Analysis

- **Focus Area 3:** Public Health, Emergency Health Preparedness and Biomedical Safety- 6 additional s.h. of Biomedical/Population Health and Epidemiology or Risk Analysis coursework

In addition to courses in Political Science, Law and Justice, Anthropology, Sociology and the Physical Sciences, students can also use the following Disaster Preparedness and Emergency Management courses to fulfill Focus Area requirements.

DPEM 00280	Global Catastrophes	3
DPEM 00321	Humanitarian Response: Evacuation and Shelter Management	3
DPEM 43355	Emergency Exercises: Design, Implementation and Evaluation	3
DPEM 43395	Emergency Operations and Business Continuity	3
DPEM 43420	Risk Analysis for Disaster Preparedness and Homeland Security	3
DPEM 43300	Bioterrorism and Weapons of Mass Destruction	3

Required BA-DPEM Core Courses 27 s.h.

(s.h.: semester hours/credit hours)

DPEM 00101	Intro to Emergency Management and Homeland Security	3
DPEM 00310	Critical Infrastructure	3
DPEM 00311	Incident Command: Theory and Practice	3
LAWJ 05326	International Terrorism	3
SOC 08429	Organizational Response to Disasters and Crisis	3
SOC 08328	Sociology of Disasters and Crisis	3
DPEM 00410	Public Leader in Crisis Management and Communication	3
DPEM 00391	Natural and Technological Hazards: Mitigation and Response	3
DPEM 00400	Disaster Planning, Mitigation and Recovery	3

Research Methods (Core) 3 s.h.

Choice of one (1) below (3 s.h.)

LAWJ 05380	Criminal Justice Research Methods	3
POSC 07360	Methodology and Statistics in Political Science research	3
SOC 08375	Sociological Research Methods	3

Approved Internship/Field Experience (Core) *3 s.h.

* 3 s.h. are required, 6 s.h. are recommended (select in consultation with academic advisor)

EDPA 02490	Public Service Internship	3
SOC 08494	Sociology Field Experience	3
LAWJ 05356	Criminal Justice Internship	3
DPEM 43495	Internship in Disaster Preparedness and Emergency Management	3

Required Non-Program Courses 21 s.h.

(s.h.: semester hours/credit hours)

PSY 01107	Essentials of Psychology	3
POSC 07110	American Government	3
STAT 02100	Elementary Statistics	3
or STAT 02260	Statistics I	3
SOC 08120	Intro to Sociology	3
or SOC 08121	Intro to Sociology for Premeds	3
GEOG 16160	Intro to Mapping and GIS	3
or LAWJ 05381	Crime Mapping and Crime Analysis I	3
	Any Economics Course	3
	Any Philosophy/Religious Studies Course	3

General Education and Elective Courses (as completed or transferred) 66 s.h.

Total Required Credits for the Program 120 s.h. (33 Core)

Foundation Courses

None

Graduation/Exit, Benchmark, and/or Thesis Requirements

None

Program Coordinator Contact Information

DeMond Miller
Campbell Library
856.256.4500 ext. 53517
millerd@rowan.edu

Academic Advisor Contact Information

Carlos Parker
Enterprise Center, Room 308
856.256.5567
parker@rowan.edu

Bachelor of Arts in Human Services (B.A.)

The Bachelor of Arts in Human Services is an academic program, unique to the Camden Campus that will prepare individuals to serve as human services providers, health educators, social service professionals, and community service specialists. The curriculum is designed to combine theory and research with application in experiential learning settings in the urban community and social service agencies located in the City of Camden, New Jersey. The Human Services program is designed for students who are interested in studying and working with individuals of diverse populations in urban settings.

General Education

All students starting *before* Fall 2018 and transfer students must complete the University General Education Requirements as described on page 13.

Rowan Core

All first-time Freshmen starting in Fall 2018 or after must complete the University Rowan Core Requirements as described on page 15.

Program Requirements

The Human Services program consists of 120 S.H. of coursework, including 39 S.H. of core requirements, 9 S.H. of which involve direct field experience. In addition to the core requirements, general education requirements, and electives, students will choose one of the following three concentrations, each consisting of a single required 3 S.H. course and 6 S.H. of electives relevant to each concentration:

- Clinical Services Concentration- 9 s.h.
- Administrative Concentration- 9 s.h.
- Criminal Justice Concentration- 9 s.h.

Required Core Courses

39 s.h.

(s.h.: semester hours/credit hours)

HSRV 01100	Introduction to Human Services	3
SOC 08120	Introduction to Sociology	3
PSY 01107	Essentials of Psychology	3
PSY 03205	Intake and Interviewing Skills	3
SOC 08223	Sociology of Social Welfare	3
SOC 08332	Contemporary Sociological Theory	3
HSRV 08310	Research Methods for Human Services	3
HSRV 01320	Applied Ethics in Human Services	3
HSRV 01351	Field Experience in Human Services I-III	9
SOC 08430	Case Management Intervention in Sociological Practice	3
HSRV 01400	Senior Seminar: Human Services- WI	3

Non Program Required Courses

12 s.h.

ANTH 02202	Intro to Cultural Anthropology	3
PSY 01107	Essentials of Psychology	3
PSY 03200	Abnormal Psychology	3
POSC 07110	American Government	3
STAT 02100	Elementary Statistics	3
or STAT 02260	Statistics I	3

General Education and Elective Courses (as completed or transferred)

69 s.h.

Total Required Credits for the Program

120 s.h. (39 Core)

Foundation Courses

None

Graduation/Exit, Benchmark, and/or Thesis Requirements

- Completion of a Portfolio of work completed within the senior courses, including personal growth journaling and field experience processing.
- Completion of 3 field experiences/placements totaling 360 clinical/service hours.

Program Coordinator Contact Information

Sharon McCann
Campbell Library
856.256.4500 ext. 53519
mccanns@rowan.edu

Academic Advisor Contact Information

Talia Musero
Enterprise Center, Room 310
856.256.5576
musero@rowan.edu

Bachelor of Arts in Law & Justice Studies (B.A.)

The Bachelor of Arts in Law & Justice program is intended for students who have already completed their Associate's Degree (or a minimum of 24 overall credits) and want to pursue the Bachelor of Arts. The degree, offered through Rowan Global Learning & Partnerships and taking place both online and on the Rowan University Camden Campus, offers students solid academic preparation in the study of crime, law, and the criminal justice system with an interdisciplinary approach to coursework that enhances critical thinking, reasoning, writing, and logic skills. It prepares students for professional careers in four major areas: law enforcement and security services, court services, corrections, and human services. Since many of the students who enter the program express an interest in preparation for graduate study and professional schools, the program also offers the rigorous preparation necessary to achieve such goals.

General Education

All students starting *before* Fall 2018 and transfer students must complete the University General Education Requirements as described on page 13.

Rowan Core

All first-time Freshmen starting in Fall 2018 or after must complete the University Rowan Core Requirements as described on page 15.

Program Requirements**Required Law & Justice Studies Courses**

24 s.h.

(s.h.: semester hours/credit hours)

Course #	Course Title	S.H.
LAWJ 05175	Survey of Criminal Justice	3
LAWJ 05200	Introduction to Corrections	3
or LAWJ 05201	Introduction to Courts	3
or LAWJ 05202	American Police	3
LAWJ 05255	Criminal Law	3
LAWJ 05356	Criminal Justice Internship I	3
LAWJ 05369	Theories of Crime and Criminality	3
LAWJ 05380	Criminal Justice Research	3
LAWJ 05401	Law & Human Rights	3
LAWJ 05469	Seminar in Law/Justice (Writing Intensive)	3
or LAWJ 05461	Seminar in Corrections (Writing Intensive)	3
or LAWJ 05465	Seminar in Social Justice (Writing Intensive)	3
or LAWJ 05467	Seminar in Law (Writing Intensive)	3
or LAWJ 05468	Seminar in Police Science (Writing Intensive)	3

Law & Justice Studies Course Electives

12 s.h.

(s.h.: semester hours/credit hours)

Students may choose electives from the list of courses below or apply other approved Law & Justice elective courses.

Course #	Course Title	S.H.
LAWJ	Law & Justice Elective	3
LAWJ	Law & Justice Elective	3
LAWJ	Law & Justice Elective	3
LAWJ	Law & Justice Elective	3

Non-Program Required Courses

18 s.h.

SOC 08221	Social Problems	3
POSC 07100	Intro to Government & Politics	3

or POSC 07110	American Government	3
PSY 01107	Essentials of Psychology	3
or PSY 01106	Psychology of Scientific Thinking	3
PHIL 09120	Intro to Philosophy	3
or PHIL 09150	Intro to Ethics	3
or PHIL 09241	Philosophy and Society	3
STAT 02100	Elementary Statistics	3
or STAT 02102	Statistical Literacy	3

General Education and Elective Courses (as completed or transferred) 66 s.h.

Total Required Credits for the Program 120 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark, and/or Thesis Requirements

None

Program Coordinator Contact Information

Michael Weiss
Campbell Library
856.256.4840
weissm@rowan.edu

Academic Advisor Contact Information

Francesca Pugh-Opher, Ph.D.
Enterprise Center, Room 309
856.256.5777
pughf@rowan.edu

Bachelor of Arts in Liberal Studies: Humanities/Social Science (B.A.)

The B.A. in Liberal Studies: Humanities/Social Science program is designed for those who possess at least 24 college credits and want to complete a bachelor's degree in a convenient setting. This quality liberal studies program offers students solid academic preparation and is ideal for working adults who need a bachelor's degree in order to pursue a career or advance in their current position.

Rowan University requires the completion of 120 semester hours of approved general education and major coursework in order to graduate with a bachelor's degree. The Bachelor of Arts in Liberal Studies: Humanities/Social Science program is a part-time, accelerated program that provides students with 39 of the required semester hours in approximately eight consecutive semesters. Students will work with their academic advisor to evaluate eligible transfer credits, and determine their entire degree program and mode-of-delivery options.

General Education

All students starting *before* Fall 2018 and transfer students must complete the University General Education Requirements as described on page 13.

Rowan Core

All first-time Freshmen starting in Fall 2018 or after must complete the University Rowan Core Requirements as described on page 15.

Focus Area Options

Through Rowan Global, the following focus area option is possible:

- Philosophy & Religion and Public Relations (PR) in the Workplace

Program Requirements for the Focus Areas in Philosophy & Religion and PR in the Workplace

Required Liberal Studies Core Courses 39 s.h.

(s.h.: semester hours/credit hours)

Course #	Course Title	S.H.
ADV 04330	Introduction to Advertising	3
ADV 04360	Integrated Marketing Communication	3

PHIL 09120	Introduction to Philosophy	3
PHRE 11490	Senior Seminar in Philosophy & Religion	3
PR 06301	Basic PR Writing	3
PR 06310	Intro to PR/Advertising Research	3
PR 06350	Introduction to PR	3
PR 99362	Public Opinion	3
REL 10200	Religions of the World	3
100+ Level	Philosophy/Religion Elective	3
200+ Level	Philosophy/Religion Elective	3
300+ Level	Philosophy/Religion Elective	3
300+ Level	Philosophy/Religion Elective	3

General Education and Elective Courses 81 s.h.

Total Required Credits for the Program 120 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark, and/or Thesis Requirements

None

Program Coordinator Contact Information

Matthew Lund
Bunce Hall
856.256.4539
lund@rowan.edu

Academic Advisor Contact Information

Francesca Pugh-Opher, Ph.D.
Enterprise Center, Room 309
856.256.5777
pughf@rowan.edu

Bachelor of Arts in Sociology (B.A.)

The Bachelor of Arts in Sociology degree completion program is a full or part-time program offered at the Camden campus that requires the completion of 120 semester hours of approved general education, Rowan Experience, and major coursework. The program aims to develop students' competence in understanding and analyzing the effect of social, economic and cultural factors across all levels of society. The Bachelor of Arts in Sociology overall affords its majors a strong Liberal Arts undergraduate degree as well as a rich foundation most graduate degree programs and many careers, including law, marketing, medicine and public health, social work, and social science.

Students in the sociology major now have the option of taking the General Program, the Applied Concentration, or the Anthropology Concentration for the degree. The General Program (2208) allows students flexibility in choosing which lower and upper level electives will be part of their program. It consists of a total of 36 semester hours. The Concentration in Applied Sociology (2209) consists of 36 semester hours, with students taking fewer Free Electives than in the General Program. The Applied Concentration focuses specifically on the analysis and treatment of social problems, the assessment of community-based needs and practices, and the development and evaluation of strategies for positive social change. It provides a sound foundation for pursuing careers in human and community service industries.

General Education

All students starting *before* Fall 2018 and transfer students must complete the University General Education Requirements as described on page 13.

Rowan Core

All first-time Freshmen starting in Fall 2018 or after must complete the University Rowan Core Requirements as described on page 15.

Non Program Required Courses 21 s.h.

ANTH 02202	Cultural Anthropology	3
PSY 01107	Essentials of Psychology	3
STAT 02100	Elementary Statistics	3
GEOG 16100	Cultural Geography	3
or GEOG 16140	World Regional Geography	3

ECON 04101	Intro to Macroeconomics	3
or ECON 04102	Intro to Micro Economics	3
or POSC 07100	Intro to Government & Politics	3
or POSC 07110	American Government	3
or POSC 07230	Comparative Political Systems	3
or POSC 07321	Contemporary World Problems	3
TBD	Any History Course	3
TBD	Any Philosophy or Religion Studies Course	3

Sociology Major Courses**Required Courses for the General Program** 36 s.h.*(s.h.: semester hours/credit hours)*

Course #	Course Title	S.H.
SOC 08120	Introduction to Sociology	3
SOC 08331	Classical Sociological Theory (upper level)	3
SOC 08375	Sociological Research Methods (upper level)	3
SOC 08376	Social Statistics (upper level)	3
SOC 08425	Senior Seminar (upper level)	3
(any level)	Social Institutions Bank Choice	3
(any level)	Social Institutions Bank Choice	3
(any level)	Social Processes Bank Choice	3
(any level)	Social Processes Bank Choice	3
(any level)	Sociology Choice	3
(any 300-400 level)	Sociology Choice	3
(any 300-400 level)	Sociology Choice	3

Required Courses for the Anthropology Concentration 36 s.h.*(s.h.: semester hours/credit hours)*

Course #	Course Title	S.H.
SOC 08120	Introduction to Sociology	3
SOC 08331	Classical Sociological Theory	3
SOC 08375	Sociological Research Methods	3
SOC 08376	Social Statistics	3
SOC 08425	Senior Seminar	3
ANTH 02250	Introduction to Anthropological Linguistics	3
ANTH 02203	Introduction to Archaeology	3
ANTH 02221	Human Variation	3
Anthropology Choice	(Foundational Bank)	3
ANTH 02280	Old World Archaeology	3
Anthropology Choice	(Practice Bank)	3
Anthropology/Sociology Choice	(Electives Bank)	3

Required Courses for the Applied Concentration 36 s.h.*(s.h.: semester hours/credit hours)*

Course #	Course Title	S.H.
SOC 08120	Introduction to Sociology	3
SOC 08221	Social Problems	3
SOC 08331	Classical Sociological Theory	3
SOC 08375	Sociological Research Methods	3
SOC 08376	Social Statistics	3
SOC 08425	Senior Seminar	3
SOC 08494	Field Experience in Sociology	3
SOC 08339	Sociological Practice	3
Sociology Choice	(any level)	3
Sociology Choice	(Practice Bank)	3
Sociology Choice	(Applied Bank)	3
Sociology Choice	(Concentration Bank)	3

General Education and Elective Courses (as completed or transferred) 63 s.h.**Total Required Credits for the Program** 120 s.h.**Foundation Courses**

None

Graduation/Exit, Benchmark, and/or Thesis Requirements

None

Academic Department Contact Information

Harriet Hartman
Campbell Library, Room 528
856.256.4500 ext. 53787
hartman@rowan.edu

Academic Advisor Contact Information

Francesca Pugh-Opher, Ph.D.
Enterprise Center, Room 309
856.256.5777
pughf@rowan.edu

Certificates of Undergraduate Study (Non-degree)**Certificate of Undergraduate Study in Human Services Administration (CUGS)**

The Certificate of Undergraduate Study (CUGS) in Human Services Administration will introduce students who are not Human Services majors to both theoretical and practical approaches used by professionals working in a variety of human services agencies. The courses will provide an overview of the skills and perspectives best suited to assisting them in applying their other coursework to real world settings, meeting the needs of employers as they navigate our changing societies. It will also prepare them for positions as diversity trainers, human services providers, managers and staff of human services agencies, and human rights organizations.

The Human Services-Direct Care Certificate of Undergraduate Study is a full-time or part-time program offered in a face-to-face format at our Camden, NJ campus. It requires the completion of 15 undergraduate semester hours (5 courses).

Program Requirements

Required Courses 12 s.h.

(s.h.: semester hours/credit hours)

Course #	Course Title	S.H.
HSRV 01100	Introduction to Human Services	3
HSRV 01320	Applied Ethics in Human Services	3
EDPA 02320	Introduction to Public Administration	3
SOC 08401	Human Services Organizations	3

Elective Courses 3 s.h.

Choose one (1) from the following options.

Course #	Course Title	S.H.
SOC 08353	Complex Organizations	3
EDPA 02410	Public Policy	3

Total Required Credits for the Program 15 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark, and Thesis Requirements

None

Program Coordinator Contact Information

Sharon McCann
Campbell Library
856.256.4500 ext. 53519
Mccanns@rowan.edu

Certificate of Undergraduate Study in Human Services Criminal Justice (CUGS)

The Certificate of Undergraduate Study (CUGS) in Human Services Criminal Justice will introduce students who are not Human Services majors to both theoretical and practical approaches used by professionals working in a variety of human services agencies. It will be of particular interest to Criminal Justice majors seeking work in the Corrections field. An increased need for probation and parole officers is foreseen by the State of New Jersey, this is designed to help meet that need. The courses will provide an overview of the skills and perspectives best suited to assisting them in applying their other coursework to real world settings, meeting the needs of employers as they navigate our changing societies. It will also prepare them for positions as diversity trainers, human services providers, managers and staff of human services agencies, and human rights organizations.

The Human Services-Direct Care Certificate of Undergraduate Study is a full-time or part-time program offered in a face-to-face format at our Camden, NJ campus. It requires the completion of 15 undergraduate semester hours (5 courses).

Program Requirements

Required Courses 12 s.h.

(s.b.: semester hours/credit hours)

Course #	Course Title	S.H.
HSRV 01100	Introduction to Human Services	3
SOC 08332	Contemporary Sociological Theory	3
LAWJ 05175	Survey of Criminal Justice	3
SOC 08235	Deviant Behavior and Social Control	3

Elective Courses 3 s.h.

Choose one (t) from the following options.

Course #	Course Title	S.H.
LAWJ 05315	Criminal Justice and Social Conflict	3
LAWJ 05210	Restorative Justice	3
LAWJ 05220	Victimology	3

Total Required Credits for the Program 15 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark, and Thesis Requirements

None

Program Coordinator Contact Information

Sharon McCann
Campbell Library
856.256.4500 ext. 53519
Mccanns@rowan.edu

Certificate of Undergraduate Study in Human Services Direct Care (CUGS)

The Certificate of Undergraduate Study (CUGS) in Human Services Direct Care will introduce students who are not Human Services majors to both theoretical and practical approaches used by professionals working in a variety of human services agencies. The courses will provide an overview of the skills and perspectives best suited to assisting them in applying their other coursework to real world settings, meeting the needs of employers as they navigate our changing societies. It will also prepare them for positions as diversity trainers, human services providers, managers and staff of human services agencies, and human rights organizations. This credential could readily be applied to professionals already working in the field who wish to advance their careers.

The Human Services-Direct Care Certificate of Undergraduate Study is a full-time or part-time program offered in a face-to-face format at our Camden, NJ campus. It requires the completion of 15 undergraduate semester hours (5 courses).

Program Requirements

Required Courses 12 s.h.

(s.b.: semester hours/credit hours)

Course #	Course Title	S.H.
HSRV 01100	Introduction to Human Services	3
HSRV 01320	Applied Ethics in Human Services	3
PSY 03205	Intake and Interviewing	3
SOC 08430	Case Management Intervention in Sociological Practice	3

Elective Courses 3 s.h.

Choose one (1) from the following options.

Course #	Course Title	S.H.
SOC 08223	Sociology of Social Welfare	3
SOC 08230	Sociology of Minority Groups	3
SOC 08323	Sociology of Social Work	3
SOC 08326	Socialization of the Child Through Adolescence	3

Total Required Credits for the Program 15 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark, and Thesis Requirements

None

Program Coordinator Contact Information

Sharon McCann
Campbell Library
856.256.4500 ext. 53519
Mccanns@rowan.edu

College of Science & Mathematics

Cristian Botez
Dean
Robinson Hall
856.256.4850
botez@rowan.edu

Suzanne Bausch
Vice Dean
Robinson Hall
856.256.4527
bausch@rowan.edu

Gregory Caputo
Associate Dean
Robinson Hall
856.256.5453
caputo@rowan.edu

Kristy Shuda McGuire
Assistant Dean
Robinson Hall
856.256.4869
mcguirek@rowan.edu

Deneen Hendrick
Coordinator of Pre-Health Studies
Robinson Hall
856.256.5183
hendrick@rowan.edu

Tomas Varela
Health Professions Advisor
Robinson Hall
856.256.5480
varela@rowan.edu

Mission

The College of Science and Mathematics builds on the foundation of a liberal education to provide graduate programs that prepare students for professional positions, enhance skills needed in current careers, and provide training needed for continuing study in doctoral programs. Committed to excellence in instruction and scholarship, its disciplines promote rigorous inquiry, analytical and integrative reasoning, and decision making skills.

In addition to the programs listed below, the College supports graduate programs in the College of Education. The various curricula in the College combine the richness of science and mathematical theories and traditions with applications for the workplace in the new millennium.

The College of Science and Mathematics affirms the natural sciences, behavioral sciences, and mathematics as core components of liberal education and the foundation of professional preparation. The College is committed to excellence in instruction, research, and scholarship. Its disciplines promote extensive interaction between faculty and students, attention to individual development of critical and creative thinking, the building of interdisciplinary communities through partnerships both internal and external, and the development of new knowledge through research and creative activities. The College plays an essential role in Rowan's mission: to educate students who remain lifelong learners and ethically responsible citizens, sensitive to cultural and ethnic diversity and engaged in advancing our global society.

Departments

The departments in the College are: Biological Sciences, Molecular & Cellular Biosciences, Chemistry & Biochemistry, Computer Science, Mathematics, Physics & Astronomy, and Psychology. (Not all departments offer programs through the Division of Global Learning & Partnerships.)

Programs Offered

All programs offered are listed below in order of degree/program type and then in alphabetical order by program name. Details about each program are then listed within the catalog in the same order. For the most up-to-date information regarding mode of delivery options for your program of interest, please visit www.rowanu.com/programs.

DOCTORAL DEGREE

<u>Program Name</u>	<u>Format/location</u>	<u>Program/Major Codes</u>	<u>Avail FT/PT</u>	<u>Total credits</u>
Doctor of Philosophy in Clinical Psychology	Face-to-Face at Glassboro campus	PHD-CLINPSY/D200	Full-time	107

MASTER'S DEGREES

<u>Program Name</u>	<u>Format/location</u>	<u>Program/Major Codes</u>	<u>Avail FT/PT</u>	<u>Total credits</u>
Master of Arts in Applied Behavior Analysis	Face-to-Face at Glassboro campus	MA- APPLBEH/G222	Both (however, no more than 9 credits/semester)	45
Master of Arts in Clinical Mental Health Counseling	Face-to-Face at Glassboro campus	MA- MNTHLTH/G824	Full-time	60
Master of Arts in Mathematics	Face-to-Face at Glassboro campus	MA- MATH/G701	Both	30
		Concentration Name/Code		
		Pure Mathematics/C924		
		Applied Mathematics/C925		
		Statistics/C926		
Master of Arts in School Psychology (in conjunction with College of Education)	Face-to-Face at Glassboro campus	MA-SCHPSYCH/G822	Both	33
Master of Science in Bioinformatics	Face-to-Face at Glassboro campus	MS-BINF/G499	Both	30
Master of Science in Computer Science	Face-to-Face at Glassboro campus	MS- CS/G704	Both	30
Master of Science in Data Analytics	Face-to-Face/Glassboro campus	MS-DATANALY/G705	Part-time	30
		Concentration Name/Code		
		Health Data Analytics/C720		
		Business Data Analytics/C709		
Master of Science in Pharmaceutical Science	Face-to-Face at Glassboro campus	MS-PHARMASCI/G301	Both	31

CERTIFICATES OF ADVANCED GRADUATE STUDY (NON-DEGREE)

<u>Program Name</u>	<u>Format/location</u>	<u>Program/Major Codes</u>	<u>Avail FT/PT</u>	<u>Total credits</u>
Certificate of Advanced Graduate Study in Applied Behavior Analysis	Face-to-Face at Glassboro campus	CAG- APPLBEH/G212	Part-time	18
Certificate of Advanced Graduate Study in Clinical Mental Health Counseling	Face-to-Face at Glassboro campus	CAG- MNTHLTH/G211	Part-time	12

CERTIFICATES OF GRADUATE STUDY (NON-DEGREE)

<u>Program Name</u>	<u>Format/location</u>	<u>Program/Major Codes</u>	<u>Avail FT/PT</u>	<u>Total credits</u>
Certificate of Graduate Study in Computational Data Analytics	Face-to-Face at Glassboro campus	COG- COMPDATA/G136	Part-time	12
Certificate of Graduate Study in Cyber Security	Face-to-Face at Glassboro campus	COG- CYBERSEC/G137	Part-time	12
Certificate of Graduate Study in Health Data Management	Face-to-Face at Glassboro campus	COG- HLTHDMGMT/G135	Part-time	12
Certificate of Graduate Study in Industrial Chemistry	Face-to-Face at Glassboro campus	COG- INDUSCHE/G925	Part-time	12-13
Certificate of Graduate Study in Networks	Face-to-Face at Glassboro campus	COG -NETWORKS/G128	Part-time	12
Certificate of Graduate Study in Software Engineering	Face-to-Face at Glassboro campus	COG- SFTWENG/G129	Part-time	12
Certificate of Graduate Study in Web Development	Face-to-Face at Glassboro campus	COG- WEBDEV/G130	Part-time	12

POST-BACCALAUREATE PROGRAMS (NON-DEGREE)

<u>Program Name</u>	<u>Format/location</u>	<u>Program/Major Codes</u>	<u>Avail FT/PT</u>	<u>Total credits</u>
Post-Baccalaureate Certificate in Applied Behavior Analysis	Face-to-Face at Glassboro campus	CRT- APPLBEH/A122	Both	15
Post-Baccalaureate Certificate in Pre-Health Studies	Face-to-Face at Glassboro campus	CRT-PREHLTST/9835	Both	32

UNDERGRADUATE DEGREE COMPLETION PROGRAMS

(These programs lead to Bachelor's degrees. They are offered through the Division of Global Learning & Partnerships, but official course descriptions and more about the program as a whole are included in Rowan's Undergraduate Catalog: www.rowan.edu/catalogs.)

<u>Program Name</u>	<u>Format/location</u>	<u>Program/Major Codes</u>	<u>Avail FT/PT</u>	<u>Total credits</u>
Bachelor of Arts in Psychology	Online	BA-PSY/2000	Both	120

CERTIFICATE OF UNDERGRADUATE STUDY (NON-DEGREE)

<u>Program Name</u>	<u>Format/location</u>	<u>Program/Major Codes</u>	<u>Avail FT/PT</u>	<u>Total credits</u>
Certificate of Undergraduate Study in Fundamental Computing	Online and Face-to-Face at Glassboro campus	CUGS-FNDCOMP/U120	Both	12

Admissions

For the most up-to-date information regarding admission requirements, entry points, and application deadlines, please visit www.rowanu.com/programs. Click on your program of interest to be connected to program and admission details.

Academic Program Policy Categories

For the purposes of both the Minimum Satisfactory Academic Progress policy and the Minimum Graduation Requirements policy, post-baccalaureate/graduate academic programs administered by Rowan Global at Rowan University fall into one of three major categories which are identified by their grade requirements as outlined below. (See individual program descriptions for academic categories.)

Category 1: To maintain Minimum Satisfactory Academic Progress in and to successfully graduate from a Category 1 program students must:

- Earn no more than two total "B-" grades
- Earn no grades lower than a "B-"
- Earn an official cumulative GPA (according to matriculation level) of at least 3.000 on Rowan's 4.000 scale

Category 2: To maintain Minimum Satisfactory Academic Progress in and to successfully graduate from a Category 2 program students must:

- Earn no grades lower than a "B-"
- Earn an official cumulative GPA (according to matriculation level) of at least 3.000 on Rowan's 4.000 scale

Category 3: To maintain Minimum Satisfactory Academic Progress in and to successfully graduate from a Category 3 program students must:

- Earn no more than two total C grades of any combination of “C+” or “C.” (C- grades are not acceptable.)
- Earn no grades lower than a “C”
- Earn an official cumulative GPA (according to matriculation level) of at least 3.000 on Rowan’s 4.000 scale

Policy Prior to Fall 2013 Matriculation

The academic review and minimum graduation requirements review policies will be applied to Rowan graduate and post-baccalaureate students who matriculate beginning Fall 2013 or later; however, current students (those matriculated and active before Fall 2013) will be grandfathered under the prior policy/practice, whose grade and GPA requirements are the same as Academic Review Category 3.

Doctoral Program

Doctor of Philosophy in Clinical Psychology (Ph.D.)

The APA accredited on contingency Rowan University Doctor of Philosophy in Clinical Psychology follows a scientist-practitioner model featuring personalized guidance from faculty advisors in conducting high-quality original research projects. While the program has broad and general research and clinical training, there are also evaluated educational experiences in integrated primary care and health psychology. These experiences prepare students for research and clinical training in health care settings.

Distinguishing features of the program include an exemplary faculty with theoretically grounded research programs as well as highly valued empiricism and the use of evidence-based assessment/treatment techniques. Students starting in their second year of the program will complete clinical rotations at highly competitive practicum sites in the tri-state area. One of these sites may be in the Rowan University Wellness Center as part of both the mental and physical health rotations. There is also the opportunity for interdisciplinary collaborations with Cooper Medical School of Rowan University, Rowan School of Osteopathic Medicine, and the M.D. Anderson Cancer Center at Cooper Hospital. The Clinical Psychology Ph.D. Program in the Department of Psychology at Rowan University is committed to bringing together students and faculty from diverse backgrounds and emphasizes individual differences as well as interconnectedness between biological, psychological, and sociocultural factors.

The Rowan University Doctor of Philosophy in Clinical Psychology is a full-time program that requires the completion of 107 semester hours over four years plus a one-year clinical internship. In addition to coursework, students obtain an empirical master’s degree and complete several evaluated benchmarks en route to the doctoral degree. Classes are (primarily) held during the day. Students will be simultaneously admitted to both the Master of Arts and Doctor of Philosophy in Clinical Psychology programs and expected to complete requirements for both degrees. As of May 2019, the program is accredited on contingency by the American Psychological Association (APA) accreditation and the program’s website can be viewed for more details on the status of the accreditation. Additionally, the standards are consistent with requirements for licensure as a Psychologist in NJ as well as nationwide.

Program Requirements

The coursework for the Rowan University Doctor of Philosophy in Clinical Psychology has been designed and sequenced in a way that will allow students to develop increasingly complex and cumulative knowledge over the course of their training. Additionally, practicum training will be sequenced in a way that allows students to attain increasingly complex clinical competencies. Students will receive individual and/or group supervision from faculty and/or external supervisors and will also be part of vertical supervision teams. The following courses make up the Doctor of Philosophy in Clinical Psychology program.

Required Courses

36 s.h.

(s.h.: semester hours/credit hours)

<u>Course #</u>	<u>Course Title</u>	<u>S.H.</u>
PSY 09700	Human Development	3
PSY 10630	Biological Bases of Behavior	3
PSY 05621	Social Issues in Health and Wellness	3
PSY 03830	Health Psychology	3
PSY 10780	Behavioral Pharmacology and Psychopharmacology	3
PSY 02706	Research Methods	3
PSY 02630	Experimental Foundations of Behavior Therapy	3
PSY 07714	Statistics for Clinical Psychology I: Univariate	3
PSY 07740	Statistics for Clinical Psychology II: Multivariate	3
PSY 03812	Thesis Research I	1
PSY 03814	Thesis Research II	1
PSY 01850	Dissertation Research I	1

PSY 01852	Dissertation Research II	1
PSY 01853	Dissertation Research III	1
PSY 01854	Dissertation Research IV (may be repeated as needed)	1
PSY 01750	Multicultural Perspectives	3

Clinical Core Courses

59 s.h.

<u>Course #</u>	<u>Course Title</u>	<u>S.H.</u>
PSY 03701	Assessment I: Psychometrics & Cognitive Testing	3
PSY 03710	Intervention I: Foundational Clinical Skills	3
PSY 03740	Professional, Ethical & Legal Issues in Clinical Psychology	3
PSY 03704	Assessment II: Individual Differences and Personality	3
PSY 03712	Intervention II: Evidence-Based Interventions with Adults	3
PSY 01623	Psychopathology II: Conceptualization and Etiology	3
PSY 03838	Health Care Models and Service Delivery	3
PSY 03721	Professional Proseminar I	1
PSY 03722	Professional Proseminar II	1
PSY 03742	Introductory Practicum	3
PSY 03744	Foundation Practicum	9
PSY 03723	Professional Proseminar III	1
PSY 03724	Professional Proseminar IV	1
PSY 03725	Professional Proseminar V	1
PSY 03726	Professional Proseminar VI	1
PSY 03727	Professional Proseminar VII	1
PSY 03728	Professional Proseminar VIII	1
PSY 03800	Intermediate Practicum	9
PSY 03820	Advanced Practicum	6
PSY 03860	Internship	0

Elective Courses

12 s.h.

<u>Course #</u>	<u>Course Title</u>	<u>S.H.</u>
PSY 03715	Intervention III: Evidence-Based Interventions with Children and Adolescents	3
PSY 03832	Behavioral Medicine	3
PSY 03835	Pediatric Psychology	3
PSY 03717	Advanced Cognitive-Behavioral Assessment and Therapy	3
PSY 03902	Advanced Seminar in Evidence-Based Practice	3
PSY 03834	Neuropsychological Assessment	3
PSY 03900	Advanced Seminar in Health Psychology and Behavioral Medicine	3

Total Required Credits for the Program

107 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark, and/or Thesis Requirements:

- Successful completion of internship
- Successful completion and defense of doctoral dissertation
- Additional benchmarks regarding professional, personal, and emotional competencies are delineated in the student handbook for the program.

Minimum Required Grades and Cumulative GPA

The Doctor of Philosophy in Clinical Psychology is a Category 2 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Advisor Contact Information

Jim A. Haugh, Ph.D.

Robinson Hall

856.256.4500 ext. 53781

clinicalpsych@rowan.edu

Master's Degrees**Master of Arts in Applied Behavior Analysis (M.A.)**

ABA involves the use of well-established and empirically supported principles to assess and treat problem behavior and to facilitate skill acquisition. Applied Behavior Analysis (ABA) has been empirically shown to be effective in a wide variety of areas, and has received the most recognition for its treatment approaches for individuals with developmental disabilities and autism. The Master of Arts in Applied Behavior Analysis meets the coursework eligibility criteria for the BCBA Option 1 coursework requirements as part of the application for the Behavior Analyst Certification Board, Inc.® to become a Board Certified Behavior Analyst (BCBA). The Master of Arts in Applied Behavior Analysis includes an embedded Verified Course Sequence (VCS), a sequence of courses that have been verified by the Association for Behavior Analysis International (ABAI) as meeting specific coursework requirements, content hours, and faculty standards. To be eligible to become a BCBA, applicants will need to complete additional hours of the required Supervised Fieldwork component of the requirement. For more information, see the BACB standards at www.bacb.com.

Program Requirements**Required Courses**

31 s.h.

(s.h.: semester hours/credit hours)

Course #	Course Title	S.H.
PSY 01510	History, Philosophy & Conceptual Foundations of Behavior Analysis	3
PSY 02500	Basic Principles of Behavior	3
PSY 02610	Applied Behavior Analysis: Behavior Change Procedures	3
PSY 02620	Behavioral Assessment & Functional Analysis	3
PSY 02510	Research Methods in Behavior Analysis	3
PSY 02670	Ethical & Legal Issues in ABA	3
PSY 02680	Advanced Practice in ABA	3
PSY 01660	Practicum in Applied Behavior Analysis I	3
PSY 01661	Practicum in Applied Behavior Analysis II	3
PSY 02671	Behavioral Consultation, Supervision, and Management	3
PSY 02690	Comprehensive Exam in Applied Behavior Analysis	1

Total Required Credits for the Program

31 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark, and/or Thesis Requirements

1. Successful completion of all coursework with no more than two B- or lower grades.
2. Successful completion of oral and written comprehensive exams
3. Meet professional requirements each semester

Benchmarks: *Successful completion of all benchmarks is required for continuation in and graduation from the program. Details regarding benchmarks' timing and assessments will be shared with the student throughout the program by the Academic Advisor.*

Benchmark I:

- **Timing:** Occurs after the completion of 15 prescribed credits PSY 01510, 02500, PSY 02510, PSY 02610 and PSY 02620.
- **Requirements:** Candidates must successfully complete all courses as evidenced by grades of B or better in courses and pass comprehensive written and oral examinations with a score of 70 or better in each section before taking any additional coursework.
- **Options:** If the student does not successfully pass the benchmark, then the student is invited to re-take any necessary coursework and/or the written/oral examination once more. If still unsuccessful, student will be dismissed from the program.

Benchmark II:

- **Timing:** Occurs at the conclusion of each semester
- **Requirements:** Candidates must meet all the requirements of the profession in terms of professional demeanor, client interaction, and ethical behavior as determined by the faculty members and off-site clinical supervisors.
- **Options:** If the student does not successfully pass the benchmark, then they may be provided a remediation plan for professional behavior by the faculty, or they may be dismissed from the program.

Minimum Required Grades and Cumulative GPA

The Master of Arts in Applied Behavior Analysis is a Category I program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Advisor Contact Information**MaryLouise Kerwin****Robinson Hall****abacoursework@rowan.edu****Master of Arts in Clinical Mental Health Counseling (M.A.)**

The focus of the Master of Arts in Clinical Mental Health Counseling program is on preparing students to become mental health counselors who are involved in the prevention and treatment of a wide variety of mental health problems. Many of our students apply for licensure as Licensed Associate Counselors (LAC), and then as Licensed Professional Counselors (LPC) in New Jersey and other states. With the master's degree completion, some students choose to seek research positions or pursue doctoral degrees. As such, students will receive a comprehensive background in counseling theories, empirical research findings, counseling skills, and treatment approaches necessary for the effective delivery of services in a variety of mental health settings. The program places a particular emphasis upon delivering strong skills in differential diagnosis, conceptualization, and the use of evidence-based practices, with strong studies in ethics and multicultural issues.

As part of their program, students are required to complete at least 600 hours of supervised practice in a mental health setting and complete the Counselor Preparation Comprehensive Examination (CPCE). Students may elect to substitute the CPCE with the National Counselor Examination (NCE). The master's program consists of 60 credit hours of graduate work, which is the educational requirement for the LAC/LPC. Students may also become involved in faculty labs, on a volunteer basis. This is valuable in gaining research experience and in further connecting with faculty.

Program Requirements**Required Courses**

60 s.h.

(s.h.: semester hours/credit hours)

Course #	Course Title	S.H.
PSY 09595	Introduction to Counseling: Development of Basic Skills	3
PSY 01564	Counseling Theory & Techniques I	3
PSY 01566	Counseling Theory & Techniques II	3
PSY 01572	Research Methods & Statistics in Counseling Psychology I: Basics	3
PSY 01574	Research Methods & Statistics in Counseling Psychology II: Applied	3
PSY 01612	Group Counseling & Psychotherapy	3
PSY 01615	Professional Pro-Seminar	1
PSY 01620	Legal, Ethical & Professional Issues in Counseling	3
PSY 01623	Psychopathology I: Diagnosis & Epidemiology	3
PSY 01624	Psychopathology II: Conceptualization & Etiology	3
PSY 01650	Practicum in Counseling	8
PSY 01685	Master's Thesis in Psychology I*	3
PSY 01687	Master's Thesis in Psychology II*	3
PSY 05610	Social & Cultural Diversity	3
PSY 05652	Advanced Seminar in Clinical Practice**	9
PSY 06625	Assessment I: Psychometrics, Evaluation, & Treatment Planning	3
PSY 06626	Assessment II: Assessment of Career/Vocational Interests, Treatments, & Programs	3
PSY 09560	Lifespan Development	3
PSY 10610	Psychopharmacology & Biological Bases of Behavior	3

* Note: The Thesis Track is currently unavailable. However, there are limited opportunities for students to be involved in a research lab. Contact the program coordinator for additional details.

**Topics for the Advanced Seminar in Clinical Practice rotate at the Program Coordinator's discretion. All students take 9 elective credits. If the Thesis Track becomes available (in rare circumstances), 6 of these credits will be replaced with Master's Thesis I and II.

Total Required Credits for the Program

60 s.h.

Foundation Courses

Students must have successfully completed at least 12 credits of undergraduate-level Psychology courses at an accredited institution, including one course in Abnormal Psychology, one course in Statistics, and one course in Research Methods.

Graduation/Exit, Benchmark, and/or Thesis Requirements

- All students are required to take the Counselor Preparation Comprehensive Examination (CPCE) during their second year in the program (or the equivalent for students who are part-time). Students may replace this exam with the National Counselor Examination (NCE). Students are responsible for the cost of the selected exam.

Benchmarks: *Successful completion of all benchmarks is required for continuation in and graduation from the program. Details regarding benchmarks' timing and assessments will be shared with the student throughout the program by the Program Coordinator.*

Benchmark I:

- **Timing:** Occurs before, or at, the conclusion of each semester
- **Requirements:** Candidates must meet all of the requirements of the profession in terms of professional demeanor, client and faculty interaction, and ethical behavior, as determined by the Program Coordinator, Thesis Advisors (where indicated), Faculty Members and both on- and off-site Practicum Supervisors. The adherence to professional standards is including, but not limited to, abiding by the NBCC Code of Ethics and NJ Professional Counselor Committee Laws and Regulations. In addition, students must exhibit psychological and professional readiness for counselors-in-training.
- **Options:** If a student does not successfully pass the benchmark, the student may be provided a remediation plan for professional behavior by the Program Coordinator, or may be dismissed from the program.

Benchmark II:

- **Timing:** Occurs after the completion of 28 prescribed credits (Year I-including Summer)
- **Requirements:** Candidates must successfully complete all Year I courses (including Summer) and secure a practicum location. In addition, students in the Thesis Track must also formulate a suitable thesis topic (with approval of their Thesis Advisors) by the end of the Summer term of their first year. Students need to discuss details with their Thesis Advisors and the Program Coordinator. As noted above, Thesis Track is currently unavailable.
- **Options:** If a student does not successfully pass the benchmark, the student may be invited to re-take any necessary coursework, dependent upon review of overall academic achievement and personal and professional conduct. The student may be advised on the possibility of extensions regarding timing of thesis formulation and practicum placement, dependent upon overall progress and movement toward these goals.

Benchmark III:

- **Timing:** Occurs after the completion of 60 prescribed credits (Year II)
- **Requirements:** Candidates in the Thesis Track must successfully defend their Master's Theses (including Master's Thesis II course). Candidates in the Advanced Clinical Track must successfully complete the additional coursework (6 credits of Advanced Clinical Seminar). Candidates in both tracks must complete 600 hours of practicum experience with satisfactory supervisory evaluations.
- **Options:** If a student does not successfully pass the benchmark, the student may be invited (at the Program Coordinator and Practicum Coordinator's discretion) to re-take any necessary coursework (including Practicum), and/or resubmit the Master's Thesis and defense. If remedial efforts are still unsuccessful, the student may be dismissed from the program.

Minimum Required Grades and Cumulative GPA

The Master of Arts in Clinical Mental Health Counseling is a Category 2 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Advisor Contact Information

cmhc@rowan.edu

Master of Arts in School Psychology (M.A.)

Completion of the Master of Arts (M.A.) in School Psychology provides a background in the theories, major knowledge, and methodological procedures in school psychology. This program (or its equivalent) is required for admission into the Educational Specialist (Ed.S.) program. The Master of Arts and Educational Specialist in School Psychology combine to meet the requirements for NJ Department of Education certification in School Psychology†.

Program Requirements

Required Courses

33 s.h.

(s.b.: semester hours/credit hours)

Course #	Course Title	S.H.
COUN 26509	Group Counseling in Educational Settings	3
COUN 26526	Individual Counseling Procedures	3
LDTC 18520	Neurological Bases of Educational Disorders	3
PSY 01570	Research Methodology and Statistics in Counseling Psych	3
PSY 03624	Psychopathology of Childhood & Adolescence	3
PSY 05610	Social and Cultural Diversity	3
or COUN 26525	Multicultural Counseling	
PSY 06533	Test & Measurements	3

PSY 22507	Development & Learning	3
PSY 09560	Lifespan Development	
PSY 22600	Seminar I: App Res in School Psychology	3
or SPSY 22600	Applied Research Seminar I: School Psychology	
PSY 22601	Seminar II: App Res in School Psychology	3
or SPSY 22601	Applied Research Seminar II: School Psychology	
SPED 08555	Educational Psychology of the Exceptional Learner	3
<u>Total Required Credits for the Program</u>		33 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark, and/or Thesis Requirements

- Successful completion of comprehensive exam (no thesis required)

Minimum Required Grades and Cumulative GPA

The Master of Arts in School Psychology is a Category 2 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Advisor Contact Information

Barbara Bole Williams, Ph.D.

Herman D. James Hall

856.256.4500 ext. 53804

williamsb@rowan.edu

Master of Arts in Mathematics (M.A.)

The Master of Arts in Mathematics program will provide an opportunity for individuals to pursue advanced study in mathematics and statistics as well as to develop skills that can lead to success in today's technologically oriented society. Whether the goal involves applying mathematics and statistics to solve problems in business or industry, teaching in higher education, or preparing for further graduate study in mathematics or related fields, this program enables each student to pursue a course of study that is appropriate for his or her interests.

The program requires students to complete 30 semester hours of work in one of the three concentrations:

- Pure Mathematics
- Applied Mathematics
- Statistics

Each has its own course and graduation exit requirements, as outlined below.

Rowan University undergraduates majoring in the Bachelor of Science in Mathematics can apply to the accelerated B.S./M.A. dual degree (4+1) program allowing them to earn both the Bachelor of Science and Master of Arts degrees in five years.

Program Requirements

Required CORE Courses for all Concentrations 9 s.h.

(s.h.: semester hours/credit hours)

<u>Course #</u>	<u>Course Title</u>	<u>S.H.</u>
MATH 01502	Linear Algebra and Matrix Theory	3
MATH 01505	Probability & Mathematical Statistics	3
MATH 01533	Graduate Seminar in Mathematics	3
or MATH 03612	Thesis in Biomathematics	3

Pure Mathematics Concentration (Required Courses) 9 s.h.

<u>Course #</u>	<u>Course Title</u>	<u>S.H.</u>
MATH 01510	Real Analysis I	3
MATH 01512	Complex Analysis I	3
MATH 01524	Abstract Algebra I	3

Restricted Electives 3 s.h.

<u>Course #</u>	<u>Course Title</u>	<u>S.H.</u>
MATH 01511	Real Analysis II	3
MATH 01513	Complex Analysis II	3

MATH 01527	Abstract Algebra II	3
Free Electives (see below)		9 s.h.
Applied Mathematics Concentration (Required Courses)		6 s.h.
<u>Course #</u>	<u>Course Title</u>	<u>S.H.</u>
MATH 01520	Topics in Applied Mathematics	3
MATH 01529	Numerical Analysis	3
Restricted Electives		6 s.h.
<u>Course #</u>	<u>Course Title</u>	<u>S.H.</u>
MATH 03501	Mathematical Modeling for Biological Systems	3
MATH 03511	Operations Research I	3
MATH 01521	Non-Linear Differential Equations	3
MATH 03525	Partial Differential Equations for Biomathematics	3
STAT 02513	Applied Stochastic Processes	3
CS 04548	Programing Languages: Theory, Implementation, and Application	3
Free Electives (see below)		9 s.h.
Statistics Concentration (Required Courses)		9 s.h.
<u>Course #</u>	<u>Course Title</u>	<u>S.H.</u>
STAT 02510	Introduction to Statistical Data Analysis	3
STAT 02515	Applied Multivariate Data Analysis	3
(new course)	Statistical Computing	3
Restricted Electives		6 s.h.
<u>Course #</u>	<u>Course Title</u>	<u>S.H.</u>
STAT 02513	Applied Stochastic Processes	3
STAT 02525	Design and Analysis of Experiments	3
STAT 02530	Applied Survival Analysis	3
(new course)	Probability and Mathematical Statistics II	3
(new course)	Introduction to Bayesian Science	3
(new course)	Special Topics in Statistics	3
Free Electives (see below)		6 s.h.
Free Elective Bank for all Concentrations		
The required and restrictive elective courses in one concentration will be considered as free electives for the other concentrations. In addition to these, the following can also be taken as free electives (9 s.h. for each of Pure and Applied Mathematics, and 6 s.h. for Statistics).		
<u>Course #</u>	<u>Course Title</u>	<u>S.H.</u>
MATH 01500	Foundations of Mathematics	3
MATH 01503	Number Theory	3
MATH 01504	Introduction to Mathematical Logic	3
MATH 01507	Differential Geometry	3
MATH 01515	Engineering Applications of Analysis	3
MATH 01522	History of Mathematics	3
MATH 01523	Selected Topics in Mathematics	3
MATH 01525	Modern Geometry	3
MATH 01526	Point Set Topology	3
MATH 01603	Analytic Number Theory	3
MATH 03550	Topics in Discrete Mathematics	3
MATH 03611	Special Topics in Biomathematics	3
STAT 02514	Decision Analysis	3
MATH 03610	Applied Statistical Epidemiology	3
MATH 03512	Operations Research II	3
Total Required Credits for the Program		30 s.h.
Foundation Courses		
None		
Graduation/Exit, Benchmark, and/or Thesis Requirements		
<ul style="list-style-type: none"> • All students must complete all course requirements for their respective Concentration. • All students must pass a comprehensive examination or complete a thesis. 		

Minimum Required Grades and Cumulative GPA

The Master of Arts in Mathematics is a Category 2 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Advisor Contact Information

Nasrine Bendjilali

Robinson Hall

856.256.4500 ext. 53846

bendjilali@rowan.edu

Master of Science in Bioinformatics (M.S.)

The Master of Science in Bioinformatics program produces highly trained students who are prepared to directly contribute to the pharmaceutical, biological and/or biomedical research fields. Bioinformatics is a multidisciplinary field that develops and uses computational tools to investigate and analyze complex biological, biomedical, and biochemical systems. The goal of the field is to analyze large biological data sets generated in the lab or clinic for ways to enhance our understanding of biology and to develop better diagnostic, prognostic and treatment methods. A major goal of our program is to provide hands-on experience so students use the skills they learn towards real-world research questions. This includes advanced training in theory and laboratory settings to allow students to diversify into other biomedical research fields.

This program includes 2 concentration areas for students to choose from:

- **Biochemistry:** Topics such as molecular dynamics, biophysics, structural prediction, computer aided drug design
- **Computer Science:** Including the practical and theoretical aspects of computational biology

Curriculum

The M.S. in Bioinformatics program consists of 30 semester hours (s.h.). Both a thesis and a non-thesis track are available.

Coursework

The following courses make up the M.S. in Bioinformatics program.

Required Courses: Students must take 4 Required Courses, 12 semester hours (s.h.)

Restricted Electives: 9–18 semester hours (s.h.)

- Choose 9–12 s.h. (thesis track) or 18 s.h. (non-thesis track) of restricted elective courses

Thesis Coursework: 9-12 semester hours (s.h.)

- Thesis students select 9-12 semester hours, in consultation with their academic advisor.
- Non-thesis students select 0 semester hours.

Rowan University undergraduates majoring in the Bachelor of Science in Bioinformatics program can apply to the accelerated Bachelor of Science/Master of Science dual degree (4+1) program, allowing them to earn both the Bachelor of Science and Master of Science degrees in five years.

Program Requirements**Required Courses**

12 s.h.

(s.h.: semester hours/credit hours)

Course #	Course Title	S.H.
BINF 07500	Bioinformatics Seminar	3
BINF 05555	Bioinformatics: Advanced Biological Applications	3
BINF 07399	Bioinformatics: Biochemical Applications	3
CS 0154I	Bioinformatics: Advanced Computational Aspects	3

Restricted Electives

Choose 9-12 s.h. (thesis track) or 18 s.h. (non-thesis track) from the following depending on focus area selected:

Department of Chemistry and Biochemistry

Course #	Course Title	S.H.
CHEM 0753I	Special Topics in Biochemistry	3
CHEM 07557	Chemical Biology	3
CHEM 07560	Advanced Biochemistry Lecture	3
CHEM 07568	Medicinal Chemistry	3
CHEM 07570	Organic Spectroscopy	3
CHEM 09510	Instrument Analysis	3
CHEM 08510	Advanced Survey of Molecular Modeling Methods	3
CHEM 07590	General Aspects of Pharmacology	3

CHEM 08505	Advanced Biophysical Chemistry	3
CHEM 09522	Advanced Bioanalytical Chemistry	3
CHEM 07592	Advanced Pharmaceutical Chemistry	3

Department of Computer Science

<u>Course #</u>	<u>Course Title</u>	<u>S.H.</u>
CS 04530	Advanced Database Systems: Theory and Programming	3
CS 07523	Advanced Software Engineering	3
CS 07540	Advanced Design and Analysis of Algorithms	3
CS 07570	Information Visualization	3
MIS 02599	Special Topics in Management Information Systems	3
DA 02510	Visual Analytics	3
CS 02520	Data Warehousing	3
CS 02505	Data Mining I	3
STAT 02515	Applied Multivariate Data Analysis	3
CS 02605	Data Mining II	3
CS 07556	Machine Learning	3
ECE 09555	Advanced Topics In Pattern Recognition	3

Department of Molecular and Cellular Biosciences

<u>Course #</u>	<u>Course Title</u>	<u>S.H.</u>
MCB 01538	Graduate Immunology	3
MCB 01506	Graduate Translational Cell Biology	3
MCB 01521	Graduate Cell Culture Techniques	3
MCB 01550	Graduate Molecular Genetics	3

Thesis Coursework

<u>Course #</u>	<u>Course Title</u>	<u>S.H.</u>
BINF 07501	Master's Thesis Research 1	3
BINF 07502	Master's Thesis Research 2	3
BINF 07503	Master's Thesis Research 3	3
BINF 07504	Master's Thesis Research 4	3

Total Required Credits for the Program9 - 12 s.h.
30 s.h.**Foundation Courses**

Applicants must have successfully completed the following courses at an accredited institution: Calculus I, Statistics I, and at least two semesters of Chemistry, Physics, Biology, and/or Computer Science. To prepare students for focus area electives, students may be advised to take one or more undergraduate courses in their concentration area in consultation with the Program Advisor.

Graduation/Exit, Benchmark, and/or Thesis Requirements

All students must conduct a formal seminar presenting their research or about a focus area topic. If thesis track is chosen, students must successfully complete and defend a Master's Thesis based on work done in their coursework with a Research Advisor.

Minimum Required Grades and Cumulative GPA

The Master of Science in Bioinformatics is a Category 2 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Academic Advisor

Benjamin Carone
256D Science Hall
856.256.4500 ext. 53587
carone@rowan.edu

Master of Science in Computer Science (M.S.)

The Master of Science in Computer Science will provide individuals with the opportunity to acquire an excellent graduate level education in Computer Science that prepares them to work in a variety of computer related fields, including education, industry, research, business, and government.

The Master of Science in Computer Science is a 30 credit-hour program with an optional thesis track. All students must complete 12-credits of core courses.

Tracks

The program includes two tracks. Each has different course and graduation exit requirements which are outlined in the chart.

- **Thesis Track:** Students in the thesis track must take 12 additional credits of elective or core courses and the 6-credit thesis sequence or 9 additional credits of elective or core courses and the 9-credit thesis sequence.
- **Non-Thesis Track:** Students choosing the non-thesis track must take 18 additional credits of elective or core courses, 6 credits of which must be classified as project intensive.

Rowan University undergraduates majoring in the Bachelor of Science in Computer Science program can apply to the Combined Advanced Degree program allowing them to earn both the Bachelor of Science and Master of Science degrees in five years.

Program Requirements

Core Courses

12 s.h.

(s.b.: semester hours/credit hours)

Choose four (4) from the following:

<u>Course #</u>	<u>Course Title</u>	<u>S.H.</u>
CS 04530	Advanced Database Systems: Theory & Programming	3
CS 04548	Programming Languages: Theory, Implementation & Application	3
CS 04560	Design & Implementation of Operating Systems	3
CS 04564	Compiler Design Theory	3
CS 04570	Advanced Object Oriented Design	3
CS 06510	Computer Networks	3
CS 06520	Topics in Computer Architecture	3
CS 07522	Advanced Theory of Computing	3
CS 07523	Advanced Software Engineering	3
CS 07540	Advanced Design & Analysis of Algorithms	3
CS 07550	Concepts in Artificial Intelligence	3
CS 07551	Advanced Cyber Security: Principles & Applications	3
CS 07552	Cryptographic Algorithms	3
CS 07556	Machine Learning	3

Elective Courses

9-18 s.h.

Choose from the following and see note*

<u>Course #</u>	<u>Course Title</u>	<u>S.H.</u>
CS 01541	Bioinformatics - Advanced Computational Aspects	3
CS 04505	Advanced Web Programming	3
CS 04563	Concurrent Programming – Theory and Practice	3
CS 04565	System Programming	3
CS 04571	Advanced Topics in Mobile Programming	3
CS 06505	Wireless Networks & Systems	3
CS 06512	Network Security	3
CS 06515	Embedded Systems Programming	3
CS 07524	Agile Software Engineering	3
CS 07545	Advanced Robotics	3
CS 07555	Natural Language Processing	3
CS 07560	Computer Graphics	3
CS 07565	Computer Vision	3
CS 07570	Information Visualization	3
CS 07575	Advanced TCP/IP & Internet Protocols & Technologies	3
CS 07580	Computer Animation	3
CS 07590	Game Design & Development	3
CS 07595	Advanced Topics in Computer Science	3

*Note: Students can choose a maximum of 6 credits of approved graduate electives from graduate programs in the field of Electrical and Computer Engineering, Mathematics, Management Information Systems, Data Analytics, or Bioinformatics.

Only 3 credits from the graduate program in Management Information Systems could be counted towards electives for a graduate degree in Computer Science. Before signing up for these classes please discuss and confirm all choices with your academic advisor.

Required Thesis Track Courses

6-9 s.h.

Choose from the following and see note* above.

Course #	Course Title	S.H.
CS 07530	Computer Science Thesis I	3
CS 07531	Computer Science Thesis II	3
CS 07532	Computer Science Thesis III <i>optional</i>	3

Total Required Credits for the Program

30 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark, and/or Thesis Requirements

If thesis track is chosen, students must successfully complete and defend Master's Thesis.

Minimum Required Grades and Cumulative GPA

The Master of Science in Computer Science is a Category 3 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Advisor Contact Information

Jianning Xu
Robinson Hall
856.256.4500 ext. 53198
xu@rowan.edu

Master of Science in Data Analytics (M.S.)

The Master of Science in Data Analytics at Rowan University is designed for individuals with a Bachelor's degree in a STEM related field who are looking to expand their knowledge and opportunities in Data Science. The program has a strong background in Data Mining, Modeling, Statistical and Machine learning, but also includes potential concentrations in Health Data Analytics or Business Data Analytics for students with those interests. If no concentration is chosen, there is a variety of electives so that students can increase their knowledge of Computer Science, Statistics, or Visual Analytics. The program is based on industry needs, as well as guidelines of the Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM) and of the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET). Students will be prepared to use algorithms, statistics, and technology to make informed decisions from massive amounts of data, to manage streamed data or data stored in massive data warehouses, and to visually analyze and present information. Courses are designed to provide expertise in the data sciences and train students to solve problems with complex sets of structured and unstructured data commonly found in any industry.

Program Requirements

The Master of Science in Data Analytics program consists of 10 courses and a total of 30 graduate semester hours (s.h.). Students may enroll in this program part-time or full-time.

Coursework

The following courses make up the Master of Science in Data Analytics program.

- **Required Courses:** 12 semester hours (s.h.)
- **Concentration and Elective Courses:** 18 semester hours (s.h.)

Required Courses

12 s.h.

(s.h.: semester hours/credit hours)

Course #	Course Title	S.H.
DA 02510	Visual Analytics	3
CS 02520	Data Warehousing	3
CS 02505	Data Mining I	3
STAT 02515	Applied Multivariate Data Analysis	3

Health Data Analytics Leading Concentration Courses

18 s.h.

Course #	Course Title	S.H.
CS 03505	Data Quality and Web/Text Mining	3
DA 03510	Patient Data Understanding	3
DA 03520	Healthcare Management	3

DA 01505	Data Analytics Capstone Practicum	3
	Take Any 2 Courses from Elective Bank below	6
<u>Data Business Analytics Concentration</u>		18 s.h.
<u>Course #</u>	<u>Course Title</u>	<u>S.H.</u>
STAT 02525	Design and Analysis of Experiments	3
MGT 07500	Managerial Decision Making Tools	3
MGT 07600	Predictive Analytics	3
DA 01505	Data Analytics Capstone Practicum	3
	Take Any 2 Courses from Elective Bank below	6
<u>No Concentration</u>		18 s.h.
<u>Course #</u>	<u>Course Title</u>	<u>S.H.</u>
DA 01505	Data Analytics Capstone Practicum	3
	Take Any 5 Courses from Elective Bank below	15
<u>Electives Bank</u>		
<u>Course #</u>	<u>Course Title</u>	<u>S.H.</u>
CS 04530	Advanced Database Systems: Theory and Programming	3
CS 07540	Advanced Design and Analysis of Algorithms	3
CS 07556	Machine Learning	3
CS 07570	Information Visualization	3
CS 02605	Data Mining II	3
CS 03505	Data Quality and Web/Text Mining	3
DA 03510	Patient Data Understanding	3
DA 03511	Patient Data Privacy & Ethics	3
DA 03520	Healthcare Management	3
ECE 09555	Advanced Topics In Pattern Recognition	3
MGT 07500	Managerial Decision Making Tools	3
MGT 07600	Predictive Analytics	3
STAT 02514	Decision Analysis	3
STAT 02525	Design and Analysis of Experiments	3
STAT 02530	Applied Survival Analysis	3
<u>Total Required Credits for the Program</u>		30 s.h.

Foundation Courses

Applicants must have successfully completed the following courses (or their equivalents) at an accredited institution: Calculus II, Probability and Statistical Inference for Computing Systems, Linear Algebra, Introduction to Object-Oriented Programming or Computer Science and Programming, and Data Structures and Algorithms or Data Structures for Engineers.

Graduation/Exit, Benchmark, and/or Thesis Requirements

A four (4) credit Capstone Practicum is required as part of the coursework.

Minimum Required Grades and Cumulative GPA

The Master of Science in Data Analytics is a Category 3 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Advisor Contact Information

Anthony Breitzman
Robinson Hall
856.256.4500 ext. 53625
breitzman@rowan.edu

Master of Science in Pharmaceutical Sciences (M.S.)

Pharmaceutical Sciences is a highly interdisciplinary field that involves the integration of concepts from organic chemistry, biochemistry, physiology, pharmacology, and molecular biology for the design and synthesis of drugs as well as for understanding the mechanism of drug action. Some of the primary goals of pharmaceutical sciences involve the discovery and development of novel drugs, efficient use of existing drugs, and lowering the cost of therapy employing cheaper protocols for manufacturing the drugs. The Master of Science (MS) in Pharmaceutical Sciences will provide the students with a solid foundation in basic chemistry and its applications in pharmaceutical sciences especially in the areas of research and development. Students will graduate with the necessary knowledge, skill sets, and training to effectively contribute to the development and characterization of new therapies for human disease and will be prepared for a career in pharmaceutical or biomedical research.

Tracks

The program includes two tracks. Each has different course and graduation exit requirements which are outlined below.

- **Thesis Track:** The thesis track is for students who desire to perform research as part of their graduate education. Thesis Track students enroll in 25 core s.h. (including 9 s.h. of research) and 6 restricted elective s.h. These students must enroll full-time. This track is a Fellows-Eligible program and the students are considered for a Graduate Fellowship award.
- **Non-Thesis Track:** Non-thesis Track students enroll in 16 core s.h. and 15 restricted elective s.h. These students may enroll either part-time or full-time.

Program Requirements

Required Courses

31 s.h.

(s.h.: semester hours/credit hours)

Non-Thesis Track

31s.h.

<u>Course #</u>	<u>Course Title</u>	<u>S.H.</u>
CHEM 05530	Special Topics in Chemistry	3
CHEM 05550	Advanced Seminar	1
CHEM 07560	Advanced Biochemistry Lecture	3
CHEM 07564	Advanced Organic Synthesis	3
CHEM 07590	General Aspects of Pharmacology	3
CHEM 07592	Advanced Pharmaceutical Chemistry	3

Choose an additional 15 s.h. from the list of Restricted Electives below.

Thesis Track

31 s.h.

<u>Course #</u>	<u>Course Title</u>	<u>S.H.</u>
CHEM 05550	Advanced Seminar	1
CHEM 07560	Advanced Biochemistry Lecture	3
or CHEM 07564	Advanced Organic Synthesis	
CHEM 07592	Advanced Pharmaceutical Chemistry	3
CHEM 09592	Pharmaceutical Techniques I	3
CHEM 09593	Pharmaceutical Techniques II	3
CHEM 09594	Pharmaceutical Techniques III	3
CHEM 09596	MS Thesis Research I	3
CHEM 09597	MS Thesis Research II	3
CHEM 09598	MS Thesis Research III	3

Choose an additional 6 s.h. from the list of Restricted Electives below.

Restricted Elective Courses

<u>Course #</u>	<u>Course Title</u>	<u>S.H.</u>
CHEM 05530	Special Topics in Chemistry	3
CHEM 07557	Chemical Biology	3
CHEM 07561	Advanced Biochemistry Lab	3
CHEM 07565	Organic Reactions and Mechanisms	3
CHEM 07568	Medicinal Chemistry	3
CHEM 07570	Organic Spectroscopy	3
CHEM 07572	Advanced Organometallic Chemistry	3
CHEM 07590	General Aspects of Pharmacology	3

CHEM 08505	Advanced Biophysical Chemistry	3
CHEM 08510	Advanced Survey of Molecular Modeling Methods	3
CHEM 09510	Instrumental Analysis	3
CHEM 09522	Advanced Bioanalytical Chemistry	3

Total Required Credits for the Program 31 s.h.

Foundation Courses

Applicants must have successfully completed the following courses at an accredited institution prior to enrolling: 2 semesters of General Chemistry, and 2 semesters of Organic Chemistry. Additionally, it is recommended that students have taken as part of their undergraduate coursework: Physical Chemistry, Inorganic Chemistry, Analytical Chemistry, and Biochemistry.

Graduation/Exit, Benchmark, and/or Thesis Requirements

If thesis track is chosen, students must successfully complete and defend a Master's Thesis based on the original research performed under the guidance of their Graduate Research Advisor.

Minimum Required Grades and Cumulative GPA

The Master of Science in Pharmaceutical Sciences is a Category 2 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Advisor Contact Information

Subash Jonnalagadda

Science Hall

856.256.5452

mspharma@rowan.edu

Certificates of Advanced Graduate Study (Non-degree)

Certificate of Advanced Graduate Study in Applied Behavior Analysis (CAGS)

Applied behavior analysis is one of the most frequently utilized treatment approaches for children and adults with special needs, including autism and developmental disabilities. The scope of practice of behavior analysts is the use of behavioral principles for the assessment and treatment of problem behaviors.

The Certificate of Advanced Graduate Study in Applied Behavior Analysis meets the coursework eligibility criteria for the BCBA Option 1 coursework requirements as part of the application for The Behavior Analyst Certification Board, Inc.® (BACB®) examination to become a Board Certified Behavior Analyst (BCBA). The Certificate of Advanced Graduate Study in Applied Behavior Analysis program is a Verified Course Sequence (VCS), a sequence of courses that have been verified by the Association for Behavior Analysis International (ABAI) as meeting specific coursework requirements, content hours, and faculty standards. Students applying to this program must possess a minimum of a master's degree from an accredited university. To be eligible to become a BCBA, applicants will need to meet additional requirements before they can be deemed eligible to take the BACB® examination. The Certificate of Advanced Graduate Study in ABA program does not provide the required Supervised Fieldwork component of this requirement. For more information, please visit the Behavior Analyst Board Certification, Inc. standards at www.bacb.com.

Program Requirements

Required Courses 18 s.h.

(s.h.: semester hours/credit hours)

<u>Course #</u>	<u>Course Title</u>	<u>S.H.</u>
PSY 02500	Basic Principles of Behavior	3
PSY 02510	Research Methods in Behavior Analysis	3
PSY 02610	Applied Behavior Analysis	3
PSY 02620	Behavioral Assessment & Functional Analysis	3
PSY 02670	Ethical & Legal Issues in ABA	3
PSY 02680	Advanced Practice in ABA	3

Total Required Credits for the Program 18 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark, and/or Thesis Requirements

- Successful completion of oral and written comprehensive exams

Benchmarks: *Successful completion of all benchmarks is required for continuation in and graduation from the program. Details regarding benchmarks' timing and assessments will be shared with the student throughout the program by the Academic Advisor.*

Benchmark I:

- *Timing:* Occurs after the completion of 12 prescribed credits
- *Requirements:* Candidates must take and successfully pass the written and oral comprehensive exams with a score of 70 or better in each section.
- *Options:* If the student does not successfully pass the benchmark, then the student is able to re-take the exam once more. If still unsuccessful, student will be dismissed from the program.

Benchmark II:

- *Timing:* Occurs at the conclusion of each semester
- *Requirements:* Candidates must meet all the requirements of the profession in terms of professional demeanor, client interaction, and ethical behavior as determined by the faculty members and off-site clinical supervisors.
- *Options:* If the student does not successfully pass the benchmark, then the student may be provided a remediation plan for professional behavior by the faculty, or they may be dismissed from the program.

Minimum Required Grades and Cumulative GPA

The Certificate of Advanced Graduate Study in Applied Behavior Analysis is a Category I program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Advisor Contact Information

MaryLouise Kerwin

Robinson Hall

abacoursework@rowan.edu

Certificate of Advanced Graduate Study in Clinical Mental Health Counseling (CAGS)

The Certificate of Advanced Graduate Study (CAGS) in Clinical Mental Health Counseling is intended for individuals who have already completed a master's degree in counseling (or related field) and need additional graduate coursework in order to have the sixty credits required for state licensure as Licensed Associate Counselors (LAC), followed by licensure (after completing necessary clinical experience) as Licensed Professional Counselors (LPC). Additionally, the program is available for mental health professionals in the community seeking to enhance their professional development. The courses within the certificate program are intended to be advanced courses within the clinical mental health profession that will allow students to improve their practical knowledge and skills. Candidates seeking licensure are advised to read the regulations and requirements of the state's board where they intend to practice. The NJ Board of Licensed Professional Counselor regulations can be found at: <http://www.njconsumeraffairs.gov/pc/Pages/default.aspx>.

Students typically complete 12 semester hours of graduate credits in classes taught by the Clinical Mental Health Counseling Program within the Department of Psychology in order to bring their total credits to the state requirement of 60. (Note: Some states may require that the master's degree have the words "counseling" or "counselor" in the title and/or be from a CACREP-accredited institution).

The 12 semester hours may be completed by taking a combination of courses within the Certificate of Advanced Graduate Study program. However, individual courses may have prerequisites associated with them. Given that some degrees total more or less than 48 credits, we occasionally accept individuals who request more (or less) than 12 semester hours and/or specific courses that are normally part of our own master's degree program. Any exceptions should be discussed with the Program Coordinator.

Students who simply need particular coursework (e.g., to obtain the sixty credits required for state licensure (LAC/LPC) and/or national certification/personal growth, etc.) may register for up to 9 graduate credits as non-matriculated students to meet their own individual needs. If additional credits are needed, students should matriculate in the program. Please note: It is highly recommended that all Certificate of Advanced Graduate Study students seek to matriculate.

Please consult with the Program Coordinator to discuss your enrollment needs.

Program Requirements

Required Courses

12 s.h.

(s.h.: semester hours/credit hours)

Please meet with the Certificate of Advanced Graduate Study Program Coordinator to develop a course sequence from the

following potential courses (dependent upon availability and prerequisites). Note: Some courses are offered on rotation, and additional elective courses may be added periodically.

Course #	Course Title	S.H.
PSY 01620	Legal, Ethical & Professional Issues in Counseling	3
PSY 01623	Psychopathology I: Diagnosis & Epidemiology	3
PSY 01624	Psychopathology II: Conceptualization & Etiology	3
PSY 01630	Family Systems & Family Therapy	3
PSY 05610	Social & Cultural Diversity	3
PSY 05652	Adv. Sem. in Clinical Practice: Evidence-Based Counseling for Children/Adolescents	3
PSY 05652	Adv. Sem. in Clinical Practice: Trauma	3
PSY 06625	Assessment I: Psychometrics, Evaluation & Treatment Planning	3
PSY 06626	Assessment II: Assessment of Career/Vocational Interests, Treatments & Programs	3
PSY 10610	Psychopharmacology & Biological Bases of Behavior	3
Total Required Credits for the Program		12 s.h.

Foundation Courses

While the courses have no official prerequisites, it is recommended that students speak with the Program Coordinator to determine if beginner-level courses are needed to fully benefit from the courses.

Graduation/Exit, Benchmark, and/or Thesis Requirements

None

Minimum Required Grades and Cumulative GPA

The Certificate of Advanced Graduate Study in Clinical Mental Health Counseling is a Category 2 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Advisor Contact Information

cmhc@rowan.edu

Certificates of Graduate Study (Non-degree)

Certificate of Graduate Study in Computational Data Analytics (COGS)

The huge amount of data generated daily is too complex and voluminous to be processed and analyzed by existing professionals and traditional methods. Across all industries, McKinsey Global Institute predicts that, "by 2018, the United States alone could face a shortage of 140,000 to 190,000 people with deep analytic skills as well as 1.5 million managers and analysts with the know-how to use the analysis of big data to make effective decisions".

This certificate is intended for data-savvy analysts who wish to update their skills and make themselves more marketable in the workplace, for professionals with deep knowledge in their domain seeking to improve their productivity, as well as for others who desire to take advantage of Big Data opportunities. The students may be recent graduates from a wide range of disciplines such as Healthcare, Journalism, Bioinformatics, Astronomy, Computer Science, GIS, Law & Justice, Business, Biomedical Engineering, Biomedical Sciences, etc., or they may be more senior data-savvy professionals wishing to keep current in their field by learning the newest technologies.

Program Requirements

Required Courses 6 s.h.

(s.h.: semester hours/credit hours)

Course #	Course Title	S.H.
DA 02510	Visual Analytics	3
CS 02505	Data Mining I	3

Students select from two elective course below:

Elective Courses 6 s.h.

(s.h.: semester hours/credit hours)

Course #	Course Title	S.H.
STAT 02515	Applied Multivariate Data Analysis	3
STAT 02514	Decision Analysis	3
CS 02520	Data Warehousing	3
CS 07570	Information Visualization	3
CS 07523	Advanced Software Engineering	3

CS 07556	Machine Learning	3
CS 02605	Data Mining II	3
ECE 09555	Advanced Topics in Pattern Recognition	3
CS 03505	Data Quality and Web/Text Mining	3

Total Required Credits for the Program **12 s.h.**

Foundation Courses

Course #	Course Title	S.H.
MATH 01131	Calculus or equivalent	3
STAT 02290	Probability and Statistics or equivalent	3
MATH 01210	Linear Algebra or equivalent	3
CS 04113 or CS 04103	Programming proficiency in at least one high-level language	3
CS 04222 or CS 04225	Data Structures and Algorithms or equivalent	3

Graduation/Exit, Benchmark, and/or Thesis Requirements

None

Minimum Required Grades and Cumulative GPA

The Certificate of Graduate Study in Computational Data Analytics is a Category 3 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Advisor Contact Information

Anthony Breitzman
Robinson Hall
856.256.4500 ext. 53625
breitzman@rowan.edu

Certificate of Graduate Study in Cyber Security (COGS)

The Certificate of Graduate Study in Cyber Security will allow students who are interested in pursuing careers in cyber security to develop the necessary expertise.

Program Requirements

Required Courses 12 s.h.

(s.b.: semester hours/credit hours)

Course #	Course Title	S.H.
CS 06512	Network Security	3
CS 07551	Advanced Cyber Security: Principles & Applications	3
CS 07552	Cryptographic Algorithms	3
TBD	<i>Choose one graduate level course as an Elective in consultation with the Academic Advisor.</i>	3

Total Required Credits for the Program **12 s.h.**

Foundation Courses

None

Graduation/Exit, Benchmark, and/or Thesis Requirements

None

Minimum Required Grades and Cumulative GPA

The Certificate of Graduate Study in Cyber Security is a Category 3 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Advisor Contact Information

Gabriela Hristescu
Robinson Hall
856.256.4500 ext. 53893
hristescu@rowan.edu

Certificate of Graduate Study in Health Data Management (COGS)

The Certificate of Graduate Study (COGS) in Health Data Management is intended for researchers, statisticians, or data analysts who would like to play a part in the healthcare industry. As a result of this program, students will be able to understand how to handle health-related data and design and analyze experiments as they relate to health data. Courses in this program may count toward Rowan's Master of Science in Data Analytics requirements.

Program Requirements

The Certificate of Graduate Study in Health Data Management consists of 12 s.h. of coursework

Coursework

The following courses are required to complete the COGS in Health Data Management

- Required Courses: 6 s.h.
- Electives: 6 s.h.

Required Courses

12 s.h.

(s.h.: semester hours/credit hours)

<u>Course #</u>	<u>Course Title</u>	<u>S.H.</u>
DA 03510	Patient Data Understanding	3
CS 03505	Data Quality and Web/Text Mining	3

Elective Courses

6 s.h.

Choose 6 s.h.

<u>Course #</u>	<u>Course Title</u>	<u>S.H.</u>
DA 03511	Patient Data Privacy & Ethics	3
DA 03520	Healthcare Management	3
STAT 02525	Design and Analysis of Experiments	3

Total Required Credits for the Program

12 s.h.

Foundation Courses

A sufficient computing and mathematics background evidenced by courses in Statistics, Linear Algebra, Object-Oriented Programming, and Data Structures and Algorithms.

Graduation/Exit, Benchmark, and/or Thesis Requirements

None

Minimum Required Grades and Cumulative GPA

The Certificate of Graduate Study in Health Data Management is a Category 3 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Advisor Contact Information

Anthony Breitzman
Robinson Hall
856.256.4500 ext. 53625
breitzman@rowan.edu

Certificate of Graduate Study in Industrial Chemistry (COGS)

This certificate is intended for the students with a background in Chemistry, Biochemistry, Biological Sciences, and/or Chemical Engineering who wish to understand chemical industry procedures and practices generally employed in pharmaceutical drug development. Prospective students may be recent graduates of a bachelor's degree program, or they may be older professionals seeking to update their skills. The certificate may be earned on its own, or it can be credited towards the Master of Science in Pharmaceutical Sciences.

Program Requirements

Core Courses

9 s.h.

(s.h.: semester hours/credit hours)

<u>Course #</u>	<u>Course Title</u>	<u>S.H.</u>
CHEM 07592	Advanced Pharmaceutical Chemistry	3
CHEM 07593	Regulatory Affairs	3
CHEM 07594	GLP/GMP Techniques	3

Elective Courses (any of the following)

3-4 s.h.

Choose 3-4 s.h.

<u>Course #</u>	<u>Course Title</u>	<u>S.H.</u>
CHEM 05530	Special Topics in Chemistry	3
CHEM 07570	Organic Spectroscopy	3
CHEM 09510	Instrumental Analysis	4
CHEM 09520	Advanced Bioanalytical Chemistry	3

Total Required Credits for the Program

12-13 s.h.

Foundation Courses

Required: Two semesters of General Chemistry, Two semesters of Organic Chemistry

Recommended: Analytical Chemistry/Quantitative Analysis and Biochemistry

Graduation/Exit, Benchmark, and/or Thesis Requirements

None

Minimum Required Grades and Cumulative GPA

The Certificate of Graduate Study in Industrial Chemistry is a Category 2 program.

*For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.***Program Coordinator/Advisor Contact Information****Subash Jonnalagadda****Science Hall 340B****856.256.5452****mspharma@rowan.edu****Certificate of Graduate Study in Networks (COGS)**

This certificate is designed for Computer Scientists or Computer Engineers who wish to understand network organization, major network protocols and the principles behind them, wireless networks, network security, and the simulation and performance of network applications. Prospective students may be recent graduates of a Bachelor's degree program in Computer Science or related field, or they may be professionals seeking to update their skills. The certificate may be earned on its own, or it can be credited towards the Master of Science in Computer Science.

Program Requirements**Required Courses**

12 s.h.

(s.h.: semester hours/credit hours)

<u>Course #</u>	<u>Course Title</u>	<u>S.H.</u>
CS 06505	Wireless Networks & System	3
CS 06510	Computer Networks	3
CS 06512	Network Security	3
CS 07575	Advanced TCP/IP & Internet Protocols & Technologies	3

Total Required Credits for the Program

12 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark, and/or Thesis Requirements

None

Minimum Required Grades and Cumulative GPA

The Certificate of Graduate Study in Networks is a Category 3 program.

*For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.***Program Coordinator/Advisor Contact Information****Gabriela Hristescu****Robinson Hall****856.256.4500 ext. 53893****hristescu@rowan.edu**

Certificate of Graduate Study in Research and Leadership in Applied Behavior Analysis (COGS)

The Certificate of Graduate Study (COGS) in Research and Leadership in Applied Behavior Analysis, which is a sequence of four (4) courses comprising 12 credits, is designed to be taken in conjunction with the MA in ABA at Rowan University (or a similar program outside of Rowan). Students enrolled in the COGs will get experience conducting cutting edge research under the mentorship of faculty in the Applied Behavior Analysis program of the Psychology Department. They will gain hands on experience conceptualizing the research process, completing regulatory procedures needed to conduct research, developing research materials, interacting with research participants, analyzing data, writing research results (with the potential for publishing in peer-reviewed journals), and presenting those results at local, regional, or national conferences. This experience will be beneficial to any student who wishes to continue their education in a Ph.D. program, or who wants more in-depth research experience for the benefit their applied practice. In addition to these research skills, students in the COGs will complete leadership coursework related to performance management, which will be beneficial to those who aspire for higher level supervisory roles.

Students taking the COGS coursework must have already completed, or currently be matriculated in, the Master of Arts in Applied Behavior Analysis at Rowan University (or a comparable program at a different institution).

Program Requirements

Required Courses

12 s.h.

(s.h.: semester hours/credit hours)

<u>Course #</u>	<u>Course Title</u>	<u>S.H.</u>
PSY 01550*	Clinical Research Practicum	3
PSY 02660*	Research Project in ABA I	3
PSY 02662*	Research Project in ABA II	3
PSY 02672*	Performance Management	3

* Prerequisites: PSY 01500, PSY 01510, and Matriculation into COGS in Research and Leadership in ABA

Total Required Credits for the Program

12 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark, and/or Thesis Requirements

Successful completion of all coursework with grades above a B- in each course.

Minimum Required Grades and Cumulative GPA

The Certificate of Graduate Study in Research and Leadership in Applied Behavior Analysis is a Category 1 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Advisor Contact Information

MaryLouise Kerwin

Robinson Hall

abacoursework@rowan.edu

Certificate of Graduate Study in Software Engineering (COGS)

This certificate is intended for Computer Scientists or Computer Engineers who wish to update their skills and make themselves more marketable in the workplace. These students may be recent graduates from a Computer Science or Computer Engineering program, or they may be computing professionals wishing to keep current in their field by learning the newest technologies. The certificate may be earned on its own, or it can be credited towards the Master of Science in Computer Science.

Program Requirements

Required Courses

12 s.h.

(s.h.: semester hours/credit hours)

<u>Course #</u>	<u>Course Title</u>	<u>S.H.</u>
CS 04548	Programming Languages: Theory, Implementation & Application	3
CS 04570	Advanced Object Oriented Design	3
CS 07523	Advanced Software Engineering	3
CS 07570	Information Visualization	3

Total Required Credits for the Program

12 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark, and/or Thesis Requirements

None

Minimum Required Grades and Cumulative GPA

The Certificate of Graduate Study in Software Engineering is a Category 3 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Advisor Contact Information**Gabriela Hristescu****Robinson Hall****856.256.4500 ext. 53893****hristescu@rowan.edu****Certificate of Graduate Study in Web Development (COGS)**

This certificate is intended for Computer Scientists who wish to update their skills and make themselves more marketable in the workplace. These students may be recent graduates from a Computer Science program, or they may be Computer Science professionals wishing to keep current in their field by learning the newest technologies. The certificate may be earned on its own, or it can be credited towards the Master of Science in Computer Science.

Program Requirements**Required Courses**

12 s.h.

(s.h.: semester hours/credit hours)

<u>Course #</u>	<u>Course Title</u>	<u>S.H.</u>
CS 04505	Advanced Web Programming	3
CS 04530	Advanced Database Systems: Theory & Programming	3
CS 06510	Computer Networks	3
CS 07523	Advanced Software Engineering	3

Total Required Credits for the Program

12 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark, and/or Thesis Requirements

None

Minimum Required Grades and Cumulative GPA

The Certificate of Graduate Study in Web Development is a Category 3 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Advisor Contact Information**Gabriela Hristescu****Robinson Hall****856.256.4500 ext. 53893****hristescu@rowan.edu**

Post-Baccalaureate Programs (Non-degree)**Post-Baccalaureate Certificate in Applied Behavior Analysis**

Applied behavior analysis is one of the most frequently utilized treatment approaches for children and adults with special needs including autism and developmental disabilities. The scope of practice of behavior analysts is the use of behavioral principles for the assessment and treatment of problem behavior. The Post-Baccalaureate Certificate Program is designed to provide students with the necessary coursework required to apply for certification as a Board Certified assistant Behavior Analyst (BCaBA). In addition to coursework, the BCaBA certification requires a bachelor's degree from an accredited university, and additional hours of supervised practice. For more information please see Behavior Analyst Board Certification, Inc. standards at www.bacb.com.

A note about BCaBA Certification

While the Association for Behavior Analysis International (ABAI) has approved the courses in the Post-Baccalaureate in Applied Behavior Analysis as meeting the coursework requirements for the Board Certified assistant Behavior Analyst (BCaBA) certification, applicants will have to meet additional requirements to qualify for the BCaBA certification including:

- a bachelor's degree from an accredited university
- additional hours of supervised practice in the field

The Behavior Analyst Certification Board has ultimate responsibility for determining eligibility for certification as a BCaBA. For more information please see Behavior Analyst Board Certification, Inc. standards at www.bacb.com.

Program Requirements**Required Courses**

15 s.h.

(s.h.: semester hours/credit hours)

Course #	Course Title	S.H.
PSY 01316	Behavioral Assessment & Measurement	3
PSY 01424	Professional Issues in Applied Behavior Analysis	3
PSY 02305	Applied Behavior Analysis	3
PSY 02310	Learning & Behavior	3
PSY 01425	Fieldwork in Applied Behavior Analysis	3

Total Required Credits for the Program

15 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark, and/or Thesis Requirements

None

Minimum Required Grades and Cumulative GPA

The Post-Baccalaureate in Applied Behavior Analysis is a Category I program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Advisor Contact Information**Bethany Raiff****Robinson Hall****abacoursework@rowan.edu****Post-Baccalaureate Programs (Non-degree)****Post-Baccalaureate Certificate in Pre-Health Studies**

This program is designed for individuals who are interested in a career in the health professions but have little or no background in science. The coursework focuses on medical and dental school prerequisites, the medical school entrance exam (MCAT), and the application process, but also can be tailored to other health-related professional schools. Students who complete the program will receive a Post-Baccalaureate Certificate in Pre-Health Studies from Rowan University and may be eligible to continue their education at the Rowan Graduate School of Biomedical Sciences (RowanGSBS) to receive a Certificate in Biomedical Sciences and/or a master's degree. Upon completion of the Post-Baccalaureate Certificate in Pre-Health Studies, students will demonstrate knowledge of scientific foundations, including fundamentals of chemistry, biology, and physics, needed to succeed on the MCAT exam and in medical school or other health-related professional programs.

Students will complete the basic prerequisites for professional school within one calendar year, which will allow them to apply to professional school in a timely fashion. A sample course sequence is described below. Similar course sequence guides will be tailored specifically to each student's desired health-related professional school. Additional recommended

courses will be suggested after successful completion of prerequisite courses and in consultation with the program director/health professions advisor.

- Medical/Dental: Students will take CHEM 06100 and CHEM 06101 in the Summer; MCB 01101, CHEM 07200, and PHYS 00210 in the Fall; and MCB 01102, CHEM 07201, and PHYS 00210 in the Spring.
- Physical Therapy: Students will take CHEM 06100 and CHEM 06101 in the Summer; MCB 01101, BIOL 10210, and PHYS 00210 in the Fall; and MCB 01102, BIOL 10212, & PHYS 00211 in the Spring.

Program Requirements

- The program consists of four (4) required courses (those required by all known health professions programs), totaling 16 credits. These courses are marked “required” below. In addition to the core courses, additional electives would be required depending on which health profession is targeted and in consultation with the program director/health professions advisor. The total credits for the program is 32 credits.
- The number of credit hours is greater than the 30 maximum indicated in the University Senate’s curricular definitions guidelines because the courses within the program are 4 credits each.

Required Courses

16 s.h.

(s.h.: semester hours/credit hours)

Course #	Course Title	S.H.
CHEM 06100	Chemistry I (required)	4
CHEM 06101	Chemistry II (required)	4
MCB 01101	Foundations in Biology for Biomedical Sciences I (FBBS1)(required)	4
MCB 01102	Foundations in Biology for Biomedical Sciences II (FBBS2)(required)	4

Elective Courses

16 s.h.

(s.h.: semester hours/credit hours)

Course #	Course Title	S.H.
PHYS 00210	Physics I	4
PHYS 00211	Physics II	4
CHEM 07200	Organic Chemistry I	4
CHEM 07201	Organic Chemistry II	4
BIOL 10210	Human Anatomy and Physiology I	4
BIOL 10212	Human Anatomy and Physiology II	4
BIOL 14440	Introduction to Biochemistry	3
CHEM 07348	Biochemistry	4
BIOL 11330	Microbiology	4
BIOL 22335	Genetics	4
BIOL 22410	Concepts in Human Genetics	4
MCB 22450	Molecular Genetics	4
STAT 02260	Statistics I	3
STAT 02280	Biometry	4
PSY 01108	Essentials of Psychology-Pre Health	3
MATH 01122	Pre-Calculus	4
MATH 01130	Calculus I	4
MATH 01131	Calculus II	4
SOC 08121	Introduction to Sociology for Pre-Medical Students	3

Total Required Credits for the Program

32 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark, and/or Thesis Requirements

Completion of the required courses in the selected professional area bank with a 3.0 GPA and approval of completion by the program advisor. Students are required to fulfill a minimum of 32 credits in the program.

Minimum Required Grades and Cumulative GPA

The Post-Baccalaureate in Pre-Health Studies is a Category 2 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Advisor Contact Information

Tomas Varela
Science Hall
856.256.5480
varela@rowan.edu

Undergraduate Degree-Completion Programs

Overview

The following programs lead to a Bachelor's degree. These programs are offered through the Division of Global Learning & Partnerships, but official course descriptions and more about the program as a whole are included in Rowan's Undergraduate Catalog: www.rowan.edu/catalogs.

Bachelor of Arts in Psychology (B.A.)

Rowan's respected and popular Bachelor of Arts in Psychology program follows the American Psychological Association (APA) guidelines for the undergraduate Psychology Major. This fully online degree-completion program is designed for the adult learner interested in furthering his or her knowledge in the field of psychology.

Rowan University requires the completion of 120 semester hours of approved general education/Rowan Core, Rowan Experience, and major coursework in order to graduate with a bachelor's degree. The Bachelor of Arts in Psychology degree completion program is a full- or part-time program that provides students with 35 of the required semester hours.

General Education

All students starting *before* Fall 2018 and transfer students must complete the University General Education Requirements as described on page 13.

Rowan Core

All first-time Freshmen starting in Fall 2018 or after must complete the University Rowan Core Requirements as described on page 15.

Program Requirements

Required Psychology Core Courses

35 s.h.

(s.h.: semester hours/credit hours)

Foundation Courses in Psychology

Course #	Course Title	S.H.
PSY 01107	Essentials of Psychology	3
PSY 01106	Psychology of Scientific Thinking	3
PSY 01199	Navigating Psychology	1
PSY 01499	Psychology Senior Capstone	1
PSY 02257	Psychology as a Profession & Practice	3
PSY 07202	Statistics in Psychology (Prereq PSY 01106)	3
PSY 07201	Research Methods in Psychology (Prereq PSY 07202)	3

Basic Cores Areas of Psychology

Course #	Course Title	S.H.
PSY 02310	Learning & Behavior	3
or PSY 01327	Cognitive	
PSY 05206	Social Psychology	3
or PSY 01230	Psychology of Personality	
PSY 09305	Developmental Psychopathology	3
or PSY 03200	Abnormal Psychology	
PSY 09218	Lifespan Development	3
or PSY 09209	Child and Adolescent Psychology	
PSY 10315	Physiological Psychology	3
or PSY 01326	Perception	

Psychology Elective Course (3 credits total)

Course #	Course Title	S.H.
TBD	Any other Psychology course (except Child and Adolescent or Adolescent Development)	3

Total Required Credits for the Psychology Core Courses 35 s.h.

General Education and Elective Courses 85 s.h.

Students must also complete courses with the following designation in order to fulfill the Rowan Experience requirement: Writing Intensive (WI), Literature (LIT), Arts and Creative Experience (ACE), Public Speaking (PS), Multicultural/Global (M/G). Students must also complete a total of 30 credits from Rowan University

Total Required Credits for the Program 120 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark, and/or Thesis Requirements

Program exit includes successful completion of all required coursework totaling 120 credits, and an overall GPA of 2.0 or better per Rowan University policy. Student will receive a Bachelor of Arts in Psychology degree, awarded by Rowan University.

Program Coordinator Contact Information

psychadvising@rowan.edu

Academic Advisor Contact Information

Talia Musero

Enterprise Center, 310

856.256.5576

musero@rowan.edu

Certificates of Undergraduate Study (Non-degree)**Certificate of Undergraduate Study in Fundamental Computing (CUGS)**

The Certificate of Undergraduate Study (CUGS) in Fundamental Computing is designed to increase student marketability while helping to contend with and meet the challenges of students' current and future careers by providing a broad overview of key computing skills which are applicable and may be extended to almost every industry in the world today.

The educational goals of this CUGS are to provide students with a general understanding of the domains of computing and expose students to the diverse areas of computing that can supplement their individual discipline and field.

Students seeking this CUGS will be required to complete a total of 4 courses in 4 out of the 5 different domains of computing. This CUGS is not available to Computer Science majors or Computing and Informatics majors. No previous experience or knowledge of computing technologies is required.

Program Requirements**Required Courses**

12 s.h.

(s.h.: semester hours/credit hours)

Course #	Course Title	S.H.
Programming		
CS 01102	Introduction to Programming	3
CS 01104	Introduction to Scientific Programming	3
CS 04110	Introduction to Programming Using Robots	3
CS 04103	Computer Science and Programming	3
Mobile Applications		
CS 04171	Creating Android Applications	3
Web Systems		
CS 01105	Web Literacy	3
Networks		
CS 01210	Introduction to Networks and Data Communications	3
Security		
CS 01211	Principles of Information Security	3
Total Required Credits for the Program		12 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark, and Thesis Requirements

None

Program Director Contact Information

Chia Chien

Robinson Hall

856.256.4805

chien@rowan.edu

School of Health Professions

Cristian Botez
Dean
Robinson Hall
856.256.4850
botez@rowan.edu

Suzanne Bausch
Vice Dean
Robinson Hall
856.256.4527
bausch@rowan.edu

Gregory Caputo
Associate Dean
Robinson Hall
856.256.5453
caputo@rowan.edu

Kristy Shuda McGuire
Assistant Dean
Robinson Hall
856.256.4869
mcguirek@rowan.edu

About the School

The School of Health Professions provides rigorous academic training, exceptional clinical and internship experiences, and interprofessional opportunities for students interested in careers in nursing and health-related fields. Our students learn from an accomplished faculty in a collaborative environment and gain hands-on training both on and off campus.

Departments

The School of Health Professions consists of two departments: Health & Exercise Science and Nursing. The Department of Health & Exercise Science offers master's degrees in Athletic Training, Wellness & Lifestyle Management, and Nutrition. The Department of Nursing offers an RN-BSN degree at the undergraduate level and MSN degrees in Nurse Educator and a variety of Nurse Practitioner specialties at the graduate level.

Programs Offered

All programs offered are listed below in order of degree/program type and then in alphabetical order by program name. Details about each program are then listed within the catalog in the same order. For the most up-to-date information regarding mode of delivery options for your program of interest, please visit www.rowanu.com/programs.

MASTER'S DEGREES

Program Name	Format/Location	Program/Major Codes	Avail FT/PT	Total Credits
Master of Arts in Wellness & Lifestyle Management	100% online	MA-WLM/G837	Part-time	30
Master of Science in Athletic Training	Traditional	MS-AT/G328	Full-time	161 (for incoming students)
Master of Science in Nutrition & Dietetics	Traditional	MS-NUTDIET/G839	Full-time	30
Master of Science in Nursing	Blended	MSN-NURS/G265	Part-time	38-53
		Concentration Name/Code		
		Nurs Pract - Family/C264		
		Nurs Pract - AGACNP/C260		
		Nurs Pract - Psych Mental Health/C021		
		Nurse Educator/C266		

CERTIFICATES OF GRADUATE STUDY

<u>Program Name</u>	<u>Format/Location</u>	<u>Program/Major Codes</u>	<u>Avail FT/PT</u>	<u>Total Credits</u>
Certificate of Graduate Study in Wellness Coaching	Online	COG-WELLCOAC/G927	Both	12

UNDERGRADUATE DEGREE COMPLETION PROGRAMS

(These programs lead to bachelor's degrees. They are offered through the Division of Global Learning & Partnerships, but official course descriptions and more about the program as a whole are included in Rowan's Undergraduate Catalog: www.rowan.edu/catalogs.)

<u>Program Name</u>	<u>Format/location</u>	<u>Program/Major Codes</u>	<u>Avail FT/PT</u>	<u>Total credits</u>
Bachelor of Arts in Health Studies	Online (Students accepted to program beginning Spring 2019)	BA-HEALTHSTD/0853	Both	120
Bachelor of Science in Nursing	Hybrid-Combination of some face-to-face courses and some fully online courses	BSN-NUR/1203	Part-time	121

Admissions

For the most up-to-date information regarding admission requirements, entry points, and application deadlines, please visit www.rowanu.com/programs. Click on your program of interest to be connected to program and admission details.

Academic Program Policy Categories

For the purposes of both the Minimum Satisfactory Academic Progress policy and the Minimum Graduation Requirements policy, post-baccalaureate/graduate academic programs administered by Rowan Global at Rowan University fall into one of three major categories which are identified by their grade requirements as outlined below. (See individual program descriptions for academic categories.)

Category 1: To maintain Minimum Satisfactory Academic Progress in and to successfully graduate from a Category 1 program students must:

- Earn no more than two total "B-" grades
- Earn no grades lower than a "B-"
- Earn an official cumulative GPA (according to matriculation level) of at least 3.000 on Rowan's 4.000 scale

Category 2: To maintain Minimum Satisfactory Academic Progress in and to successfully graduate from a Category 2 program students must:

- Earn no grades lower than a "B-"
- Earn an official cumulative GPA (according to matriculation level) of at least 3.000 on Rowan's 4.000 scale

Category 3: To maintain Minimum Satisfactory Academic Progress in and to successfully graduate from a Category 3 program students must:

- Earn no more than two total C grades of any combination of "C+" or "C." (C- grades are not acceptable.)
- Earn no grades lower than a "C"
- Earn an official cumulative GPA (according to matriculation level) of at least 3.000 on Rowan's 4.000 scale

Policy Prior to Fall 2013 Matriculation

The academic review and minimum graduation requirements review policies will be applied to Rowan graduate and post-baccalaureate students who matriculate beginning Fall 2013 or later; however, current students (those matriculated and active before Fall 2013) will be grandfathered under the prior policy/practice, whose grade and GPA requirements are the same as Academic Review Category 3.

Master's Degrees

Master of Arts in Wellness & Lifestyle Management (M.A.)

The Master of Arts in Wellness & Lifestyle Management (WLM) is a program for professionals from a variety of disciplines who want to work with clients or students to create and maintain lifestyle changes. The program is designed to serve the needs of professionals from a variety of educational backgrounds. The goal of this program is to prepare professionals in corporate, hospital and community health promotion settings to facilitate and lead wellness initiatives within their organizations. Graduates will be prepared to serve as facilitators, coordinators and managers of wellness programs in the following types of organizations:

- Corporate wellness/fitness facilities
- Hospital-based wellness/fitness facilities
- Clinical and rehabilitation centers
- Schools and Colleges/universities
- Community wellness/fitness facilities
- Non-profit health agencies
- State/county/ity Departments of Public Health

The Master of Arts in Wellness & Lifestyle Management program consists of 10 courses and a total of 30 graduate semester hours (S.H.). This is a part-time accelerated program with degree completion possible in 5 consecutive semesters.

Program Requirements

Required Courses

30 s.h.

(s.b.: semester hours/credit hours)

Course #	Course Title	S.H.
HES 00512	Understanding & Applying the Professional Literature in HES	3
WLM 00530	Leadership & Management in the Health Promotion Programs	3
WLM 00541	Wellness Coaching & Behavior Change	3
WLM 00542	Program Planning in Health Promotion	3
WLM 00580	Obesity & Diabetes Prevention Management	3
HES 00590	Integrating Wellness into School Settings	3
WLM 00600	Promoting Human Wellness Across the Lifespan	3
WLM 00610	Positive Perceptions, Performance & Wellness	3
WLM 00575	Wellness in the Workplace	3
HES 00550	Capstone Project	3
or WLM 00620	Internship in Wellness & Lifestyle Management	
or WLM 00621	Practicum in Wellness Coaching	

Total Required Credits for the Program

30 s.h.

Foundation Courses

Students must have completed undergraduate-level Basic Nutrition (NUT 00200) course at an accredited institution before beginning the HLT 00580: Obesity & Diabetes Prevention Management course.

Graduation/Exit, Benchmark, and/or Thesis Requirements

None

Minimum Required Grades and Cumulative GPA

The Master of Arts in Wellness & Lifestyle Management is a Category 3 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator & Academic Advisor

Dr. Leslie Spencer
Herman D. James Hall
856.256.4500 ext. 3761
spencer@rowan.edu

Master of Science in Athletic Training (M.S.)

The Athletic Training Program at Rowan University is a rigorous and intense program designed to prepare students to take the Board of Certification, Inc., Exam and to become competent Athletic trainers. A major objective of this program is to prepare graduates to enter a variety of employment settings and to render care to a wide spectrum of individuals engaged in physical activity. The technical standards set forth by the Athletic Training Program establish the essential qualities considered necessary for students admitted to this program to achieve the knowledge, skills, and competencies of an entry-level certified athletic trainer, as well as meet the expectations for the Commission on Accreditation of Athletic Training Education [CAATE].

Current Rowan University Students

The MSAT has a unique curriculum. It is a 5 year Master's Program, in that there will be no Bachelor's degree associated with this program. Students accepted to Rowan University will declare their major within the Pre-Athletic Training (PreAT) curriculum. The PreAT curriculum will be designed to prepare students for the Professional Preparation (Graduate) curriculum over a 3 year sequence of courses. In the spring of the junior year, students will apply to the Professional Preparation component (Please see Admission Requirements below). Once accepted into the Professional Athletic Training Program, students will begin the curriculum in May of their 3rd year and will continue for two calendar years.

The 2 calendar years of graduate classes will be at the undergraduate tuition rate for those students that completed the Rowan University Pre-Athletic Training Curriculum. In the Fall of 2020, the AT Program will begin accepting applications from students that have a bachelor's degree from other institutions. However, these students will be required to pay graduate tuition rates.

The new MSAT will have 4 total clinical experience classes with two being completely immersive. This means students will spend the majority or all of a semester in the clinical setting without attending face-to-face classes.

The Pre-Athletic Training curriculum is being specifically designed to prepare the student for success within the Professional Athletic Training Program. These Pre-Athletic Training curriculum major courses will introduce foundational knowledge that will be pertinent for the AT Program.

Non-Rowan University Students

External students will be able to apply to the Athletic Training Program once they have met all prerequisite admission requirements. These requirements can be found at <https://academics.rowan.edu/shp/departments/hes/index.html>. Students holding a bachelor's degree will not be eligible for the undergraduate tuition rate.

Program Requirements

Required Courses

31 s.h.

(s.h.: semester hours/credit hours)

<u>Course #</u>	<u>Course Title</u>	<u>S.H.</u>
ATR 00510	Advanced Topics in Clinical Evaluation through Cadaver Anatomy	4
STAT 02550	Applied Statistical Analysis in Athletic Training	3
ATR 00505	Research Methods in Athletic Training	3
ATR 00520	Advanced Rehabilitation Techniques: An Advanced-Based Approach to Rehabilitation	3
ATR 00540	Fellowship in Athletic Training I	5
ATR 00541	Fellowship in Athletic Training II	5
ATR 00560	Thesis I	4
ATR 00561	Thesis II	4

Please follow Rowan University transfer policy when applying for acceptance to Rowan University. Once accepted into Rowan University, the Athletic Training Program has an additional transfer policy. Please refer to the following: Athletic Training Program's Transfer Policy.

Total Required Credits for the Program

12 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark, and Thesis Requirements

Students will be required to complete a thesis project prior to graduation.

Minimum Required Grades and Cumulative GPA

The Master of Science in Athletic Training is a Category 3 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Advisor Contact Information

Robert L. Sterner
Program Director
 Herman D. James Hall
 856.256.4500 ext. 53767
sterner@rowan.edu

Laurie Dwyer
Advisor
 Herman D. James Hall
 856.256.5835
dwyer@rowan.edu

Master of Science in Nutrition and Dietetics (M.S.)

The M.S. in Nutrition and Dietetics prepares graduates to earn the Registered Dietitian credential and provide nutrition education and consultation, evaluate patients/clients and provide dietary assessments and recommendations in hospital, education and community settings.

The M.S. in Nutrition and Dietetics is a full-time program offered in a hybrid format with courses taking place at the Glassboro, NJ campus. It requires the completion of 30 graduate semester hours (8 courses). The Supervised Practice (internship) may be completed at any facility in the United States or abroad that is approved by the nutrition and dietetics accrediting body, ACEND. The M.S. program is a track for graduates to earn the Registered Dietitian credential.

Admission to the program is restricted to current Rowan University B.S. in Nutrition majors. Prospective students are encouraged to contact the program coordinator for additional information.

Program Requirements

Required Courses

30 s.h.

(s.h.: semester hours/credit hours)

<u>Course #</u>	<u>Course Title</u>	<u>S.H.</u>
NUT 00518	Nutrition and Epidemiology	3
NUT 00520	Supervised Practice in Nutrition and Dietetics I	6
NUT 00530	Supervised Practice in Nutrition and Dietetics II	6
WLM 00530	Obesity and Diabetes Prevention and Management	3
HES 00512	Understanding and Applying the Professional Literature in HES	3
NUT 00500	Advanced Nutrition Assessment	3
NUT 00510	Advanced Topics in Public Health Nutrition	3
	TBD – Graduate -Level Free Elective within Health and Exercise Science Department	3

Total Required Credits for the Program

30 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark, and/or Thesis Requirements

- 1200 supervised practice hours
- All ACEND competencies are fulfilled.

Minimum Required Grades and Cumulative GPA

The Master of Science in Nutrition and Dietetics is a Category 2 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Advisor Contact Information

Elizabeth Tenison
Herman D. James Hall
tenison@rowan.edu

Master of Science in Nursing (M.S.N.)

The Master of Science in Nursing (M.S.N.) program at Rowan University was established to provide Registered Nurses in the greater Philadelphia/tri-state area with the skills to assume leadership roles in their respective organizations.

Concentrations

The Master of Science in Nursing program requires students to select a concentration. Each has different course requirements which are outlined below. All students must successfully complete the Master of Science in Nursing core prior to being approved by the department to continue on to their concentration.

- **Nurse Educator:** The Master of Science: Nurse Educator concentration will supply Educators with the essentials to address many of today's pressing needs in the healthcare arena. This MSN concentration will provide Graduate Nurses with a firm foundation of teaching/learning principles, curriculum design, and evaluation methods. As a Nurse Educator, you can remain at the bedside, become a staff educator, develop into a leader in your chosen area of expertise, and/or teach nursing to future Nurses.
- **Nurse Practitioner-Adult Gerontology Acute Care:** The Nurse Practitioner program prepares Registered Nurses (RN) to sit for the concentration certification exam. The certifying agency determines eligibility for the exam.
- **Nurse Practitioner-Family:** The Nurse Practitioner program prepares Registered Nurses (RN) to sit for the specialty certification exam. The certifying agency determines eligibility for the exam.
- **Psychiatric Mental Health Nurse Practitioner:** The Nurse Practitioner program prepares Registered Nurses (RN) to sit for the concentration certification exam. The certifying agency determines eligibility for the exam.

Abbreviations

- NP - Nurse Practitioner
- FNP - Family Nurse Practitioner
- AGACNP - Adult Gerontology Acute Care Nurse Practitioner
- PMHNP - Psychiatric Mental Health Nurse Practitioner

Program Requirements

Required Core MSN Courses

22 s.h.

(s.h.: semester hours/credit hours)

All applicants to the Master of Science in Nursing program who meet the admission requirements are first admitted to the Master of Science in Nursing CORE which consists of seven graduate level courses taken by all MSN students regardless of their specialty track. Students must maintain a cumulative GPA of 3.0 in all MSN CORE courses in order to apply and be approved by the Department of Nursing to apply to a concentration. Admission to the concentration will only occur after core completion and faculty review/approval.

<u>Course #</u>	<u>Course Title</u>	<u>S.H.</u>
NURS 05500	Integrated Information Technology and Healthcare	3
NURS 05501	Advanced Health Assessment	3
NURS 05503	Advanced Nursing Research	4
NURS 05504	Advanced Pathophysiology	3
NURS 05505	Advanced Pharmacology	3
NURS 05507	Leadership and Care Delivery Environment	3
NURS 05508	Special Issues and Trends in Nursing	3
Total Core MSN Credits		22 s.h.

Core Nurse Practitioner Courses

(s.h.: semester hours/credit hours)

<u>Course #</u>	<u>Course Title</u>	<u>S.H.</u>
NURS 05516	Epidemiology Health Promotion & Disease Management	2
NURS 05517	Nurse Practitioner Role: History, Practice Regulation, Reimbursement, and Ethics	2
Total Core Nurse Practitioner Credits		4 s.h.

Required Concentration Courses

Students select one concentration area from the options below.

Adult Gerontology Acute Care NP Concentration Courses

<u>Course #</u>	<u>Course Title</u>	<u>S.H.</u>
NURS 05538	Adult Acute and Chronic Disease Management	3
NURS 05533	AGACNP Adult Medicine Clinical I (200 hours)	3
NURS 05534	Evidence Based Clinical Care for AGACNP I	3

NURS 05535	AGACNP Adult Medicine Clinical II (200 hours)	3
NURS 05536	Evidence-based Clinical Care for AGACNP II	3
NURS 05537	AGACNP Adult Medicine Clinical III (200 hours)	3
Total Adult Gerontology Acute Care NP Concentration Credits		18 s.h.
Total Required Credits for the Program		44 s.h.

Family NP Concentration Courses

<u>Course #</u>	<u>Course Title</u>	<u>S.H.</u>
NURS 05538	Adult Acute and Chronic Disease Management	3
NURS 05545	FNP Clinical I (200 hours)	3
NURS 05546	Women's Health Pediatrics	3
NURS 05544	Women's Health Pediatrics Clinical (200 hours)	3
NURS 05532	Across the Lifespan Primary Care	3
NURS 05547	FNP Clinical II (200 hours)	3
Total Family NP Concentration Credits		18 s.h.
Total Required Credits for the Program		44 s.h.

Core Nurse Practitioner courses for the Psychiatric Mental Health concentration

(s.h.: semester hours/credit hours)

<u>Course #</u>	<u>Course Title</u>	<u>S.H.</u>
NURS 05551	Theoretical Foundations of Psychotherapy Across the Life Span	3
NURS 05553	Principles of Psychopharmacology Across the Lifespan	3
NURS 05552	Biopsychosocial Assessment and Differential Diagnosis	3

Psychiatric Mental Health NP Concentration Courses

<u>Course #</u>	<u>Course Title</u>	<u>S.H.</u>
NURS 05554	Behavior Theory I: Care of the Adult and the Older Adult and Family	3
NURS 05555	Behavior Clinical Practicum I: Care of the Adult and the Older Adult and Family (200 hours)	3
NURS 05556	Behavior Theory II: Care of the Adult and the Older Adult and Family	3
NURS 05557	Behavior Clinical Practicum II: Care of the Adult and the Older Adult and Family (200 hours)	3
NURS 05558	Behavior Theory III: Care of the Child and Adolescent and Family	3
NURS 05559	Behavior Clinical Practicum III: Care of the Child and Adolescent and Family (200 hours)	3
Total Psychiatric Mental Health NP Concentration Credits		27 s.h.
Total Required Credits for the Program		53 s.h.

Nurse Educator Concentration Courses

<u>Course #</u>	<u>Course Title</u>	<u>S.H.</u>
NURS 05502	Teaching and Learning in Nursing	3
NURS 05506	Learning Assessment in the Classroom and Clinical Environment	3
NURS 05513	Nursing Curricular Design and Evaluation	3
NURS 05514	Nurse Educator: Leadership, Quality, and Planned Change in the practice environment I (100 hours)	3
NURS 05515	Nurse Educator: Leadership, Quality, and Planned Change in the practice environment II (200 Clinical Hours)	4
Total Nurse Educator Concentration Credits		16 s.h.
Total Required Credits for the Program		38 s.h.

Total Required Credits for the Program 38-53 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark, and/or Thesis Requirements

- 300 - 600 Clinical Hours per Concentration
- EBI Exit Survey
- GPA of 3.0 or higher

Minimum Required Grades and Cumulative GPA

The Master of Science in Nursing is a Category 2 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Advisor Contact Information

Dr. Mary Ellen Santucci (Core Advisor)

856.256.5158

santucci@rowan.edu

Dr. Matthew Kaspar (FNP Concentration Advisor)

856.256.5127

kaspar@rowan.edu

Dr. Robert White (PMHNP Concentration Advisor)

856.256.5136

whiters@rowan.edu

Dr. Melissa Mordecai (AGACNP Concentration Advisor)

856.256.5176

mordecai@rowan.edu

Certificates of Graduate Study (COGS)

Certificate of Graduate Study in Wellness Coaching (COGS)

This certificate is designed for professionals from a variety of backgrounds who desire to pursue a national certification in wellness coaching and to work as wellness coaches. Graduates of the program will be prepared to sit for a wellness coaching certification exam. The certificate may be earned on its own, or it can be credited towards the Master of Arts in Wellness and Lifestyle Management.

Program Requirements

Required Courses

12 s.h.

(s.h.: semester hours/credit hours)

<u>Course #</u>	<u>Course Title</u>	<u>S.H.</u>
WLM 00541	Wellness Coaching and Behavior Change	3
WLM 00600	Promoting Human Wellness Across the Lifespan	3
WLM 00580	Obesity and Diabetes Prevention and Management	3
WLM 00621	Practicum in Wellness Coaching	3

Total Required Credits for the Program

12 s.h.

Foundation Courses

Any 3-credit undergraduate nutrition course from an accredited institution. NUT 00200 Basic Nutrition is recommended.

Graduation/Exit, Benchmark, and/or Thesis Requirements

None

Minimum Required Grades and Cumulative GPA

The Certificate of Graduate Study in Wellness Coaching is a Category 3 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Advisor Contact Information

Leslie Spencer

James Hall

856.256.4500 ext. 53761

spencer@rowan.edu

Overview

The following programs lead to a Bachelor's degree. These programs are offered through the Division of Global Learning & Partnerships, but official course descriptions and/or more about the program as a whole are included in Rowan's Undergraduate Catalog: www.rowan.edu/catalogs.

Bachelor of Arts in Health Studies (B.A.)

The Bachelor of Arts in Health Studies provides a degree completion program for those students that have an Associate's Degree within a Medical Technology (MT) or Clinical Medical Assistant (CMA) profession (e.g., ultrasound, radiology, etc). Students must also have a certification in one of these areas to apply to this program. This program will provide students with critical professional skills not covered in the Associate's Degree program that will make them highly competitive in the job market. These skills include but are not limited to: professionalism, adaptability, problem-solving, leadership, multicultural sensitivity, and planning and organization.

The first two years of this program are fulfilled by completing an AAS degree. Some general education requirements will transfer to Rowan University from the AAS degree to fulfill some of the BA in Health Studies degree requirements. The overall credit distribution for the final two years of this program is as follows: 30 major semester hours, 15 general education semester hours (or enough to meet Rowan University requirements), and 15 free elective semester hours.

- Students must fulfill the general education requirements of Rowan Core, either through the transfer of credits or completion of courses at Rowan University.
- Additional coursework may be required, depending on the amount of credits transferred to Rowan University.

Course of Study

Rowan University requires a minimum of 120 credits to be taken within approved general education and major coursework in order to graduate with a Bachelor's degree. To obtain the Bachelor of Arts in Health Studies all students complete the following coursework:

- 60 credits minimum for AAS degree
- 30 credits in free electives at Rowan and/or in general education (Rowan Core) credits
- 30 credits of Health Studies major coursework

General Education

All students starting *before* Fall 2018 and transfer students must complete the University General Education Requirements as described on page 13.

Rowan Core

All first-time Freshmen starting in Fall 2018 or after must complete the University Rowan Core Requirements as described on page 15.

Program Requirements

Required Courses

33 s.h.

(s.h.: semester hours/credit hours)

<u>Course #</u>	<u>Course Title</u>	<u>S.H.</u>
HES 00116	Safety, First Aid, and Basic Understanding of Athletic Injuries	3
HLT 00170	Stress Management	3
HLT 00200	Community and Public Health	3
HLT 00227	Consumer Health Decisions	3
HLT 00262	Drugs, Alcohol, and Tobacco	3
HLT 00272	Technology and Assessment in Health and Exercise Science	3
HLT 00245	US Health Care Systems	3
HLT 00300	Health and Diverse Populations	3
HLT 00303	Environmental Issues in Health	3
HPW 00340	Program Planning and Leadership in Health Promotion and Wellness	3
HPW 00350	Health Behavior: Theory and Practice	3

Total Required Credits for the BA in Health Studies Major Courses

33 s.h.

BA in Health Studies Prerequisite Courses

AAS degrees are accepted as providing pre requisite course credits for the BA in Health Studies pending a review of the transcripts of applicants to the program and/or based on cooperative agreements with AAS degree granting institutions.

Graduation/Exit, Benchmark, and/or Thesis Requirements

Program exit includes successful completion of all required coursework totaling 120 credits, including a "C-" or better in all identified courses (e.g., pre requisite courses), and an overall GPA of 2.0 or better per Rowan University policy. Student will receive a Bachelor of Arts in Health Studies degree, awarded by Rowan University.

Program Coordinator Contact Information

Rob Sterner
HES Department Chair
856.256.4500 ext. 53767
sterner@rowan.edu

Academic Advisor Contact Information

Talia Musero
Enterprise Center, 310
856.256.5576
musero@rowan.edu

Bachelor of Science in Nursing (B.S.N.)

The Department of Nursing is an academic department within the School of Health Professions that collaborates with Global Learning & Partnerships of Rowan University to deliver nursing programs in a manner that accommodates the busy schedules of working and aspiring nurses. This is accomplished by online coursework to provide a balance of convenient scheduling and access to our expert nursing faculty.

The Bachelor of Science Degree in Nursing is offered jointly by the Rowan University School of Health Professions and the Division of Global Learning & Partnerships. It is designed to give additional professional education at the baccalaureate level to practicing nurses. The Bachelor of Science in Nursing degree prepares registered nurses to work in the ever-expanding field of nursing. This degree allows nurses to augment their knowledge base and thus enhance their careers. The Bachelor of Science Degree also acts as a stepping stone for the nurse who wishes to pursue a Master of Science Degree in Nursing with six graduate nursing credits included in the program curriculum. The program is designed as a part-time program to accommodate professionals' schedules while still completing the degree in a timely manner.

RN-to-BSN Curriculum

The complete curriculum includes 121 credits: 31 credits in the RN-to-BSN major and 90 credits of general education courses required by Rowan University for graduation from any bachelor's degree program. Students graduating from an Accreditation Commission for Education in Nursing (ACEN) associate's degree or diploma program are awarded 30 pre-licensure nursing credits upon matriculation into the program. Students transfer credits for coursework completed prior to admission to the program. Degree candidates are encouraged to plan a course of study that meets both the programmatic criteria as well as courses that meet their individual needs and interests.

- Students may transfer up to 90 credits in general education requirements.
- Students must fulfill the general education requirements of Rowan University, either through the transfer of credits or completion of courses at Rowan University.
- Additional coursework may be required, depending on the amount of credits transferred to Rowan University.

Course of Study

Rowan University requires 121 credits taken within approved general education and major coursework in order to graduate with a Bachelor's degree. To obtain the BSN all students complete the following coursework:

- 31 credits (9 courses) in the major sequence
- 60 credits in general education requirements
- 30 credits awarded for pre-licensure nursing coursework

General Education

- All students starting *before* Fall 2018 and transfer students must complete the University General Education Requirements as described on page 13.

Rowan Core

- All first-time Freshmen starting in Fall 2018 or after must complete the University Rowan Core Requirements as described on page 15.

General Education

- 60 general education credits required/transfer credits and remaining coursework to be determined by the Nursing Department

Program Requirements

Required Nursing Concentration Courses 31 s.h.

(s.b.: semester hours/credit hours)

<u>Course #</u>	<u>Course Title</u>	<u>S.H.</u>
NURS 03303	Comprehensive Health Assessment	3
NURS 03304	Nursing Informatics	3
NURS 03309	Ethics in Healthcare	3
NURS 03401	Community Health Nursing (M/G)	6
NURS 03403	Nursing Care Delivery Systems	4
NURS 03404	Research, Applications in Nursing Practice (WI)	3
NURS 03405	Healthcare Policy & Finance	3
NURS 05504	Advanced Pathophysiology	3
NURS 05505	Advanced Pharmacology	3

* Matriculated students must submit a copy of their current personal malpractice insurance before the start of [NURS 03401](#) Community Health Nursing.

Total Required Credits for the RN to BSN Major Courses 31 s.h.

RN to Bachelor of Science in Nursing Prerequisite Courses

Statistics and English Composition I & II are direct prerequisites for NURS 03404 Research, Applications in Nursing Practice and must be completed prior to being able to take the course (please note that a grade of C or better is needed in Statistics in order for it to meet the prerequisite requirement).

Graduation/Exit, Benchmark, and/or Thesis Requirements

- Program exit includes successful completion of all required coursework totaling 121 credits, including a "C-" or better in all major RN-to-BSN courses. Student will receive a Bachelor of Science in Nursing degree, awarded by Rowan University.
- EBI Exit Survey

RN to BSN Program Coordinator Contact Information

Dr. Patrica Becker
856.256.5193
beckerp@rowan.edu

Program Advisor Contact Information

Patrice Henry-Thatcher
856.256.5194
henrythatcher@rowan.edu

School of Earth & Environment

Kenneth J. Lacovara
Dean of School of Earth and Environment
Professor of Paleontology & Geology
Director, Jean and Ric Edelman Fossil Park
600 Whitney Avenue
856.256.5244
lacovara@rowan.edu

Eddie Guerra
Dean's Fellow
600 Whitney Avenue
856.256.4323
guerra@rowan.edu

Eric Milou
Director
Rowan University STEM Center
milou@rowan.edu

About the School

There is a great need for qualified professionals to address the most dramatic global challenges, including environmental sustainability, energy, and climate change. The School of Earth and Environment at Rowan University will play a role in developing solutions in these areas by cultivating faculty research and preparing students for careers in the geosciences, environmental sciences, planning, and sustainability. Students graduating from the School enjoy unparalleled opportunities to integrate classroom learning with hands-on experiences and will be superbly prepared for careers in industry, government agencies, professional studies, or graduate studies in related disciplines.

The Jean and Ric Edelman Fossil Park, a unique world-class reservoir of ancient ecosystems near the Glassboro campus, is a living laboratory and resource for education, research, and outreach. The Edelman Fossil Park offers students unparalleled opportunities for hands-on learning experiences and prominent research in paleontology. Because of the appeal of the Edelman Fossil Park and the importance of geosciences and environmental sciences to STEM outreach, the School coordinates with the Rowan University STEM Center to provide K-12 STEM outreach for the region.

Departments

The School consists of the Department of Geography Planning and Sustainability, the Department of Geology, and the Department of Environmental Science.

Programs Offered

The School of Earth and Environment offers the following undergraduate degrees: Bachelor of Arts in Geography, Bachelor of Science in Geographic Information Systems (GIS), Bachelor of Science in Planning, Bachelor of Arts in Environmental Studies, Bachelor of Arts in Science and Geology, Bachelor of Arts in Geology, and a Post-Baccalaureate Certificate in Cartography & GIS. Minors are offered in Geography, GIS, Planning, and Environmental Studies.

Academic Program Policy Categories

For the purposes of both the Minimum Satisfactory Academic Progress policy and the Minimum Graduation Requirements policy, post-baccalaureate/graduate academic programs administered by Rowan Global at Rowan University fall into one of three major categories which are identified by their grade requirements as outlined below. (See individual program descriptions for academic categories.)

Category 1: To maintain Minimum Satisfactory Academic Progress in and to successfully graduate from a Category 1 program students must:

- Earn no more than two total "B-" grades
- Earn no grades lower than a "B-"
- Earn an official cumulative GPA (according to matriculation level) of at least 3.000 on Rowan's 4.000 scale

Category 2: To maintain Minimum Satisfactory Academic Progress in and to successfully graduate from a Category 2 program students must:

- Earn no grades lower than a "B-"
- Earn an official cumulative GPA (according to matriculation level) of at least 3.000 on Rowan's 4.000 scale

Category 3: To maintain Minimum Satisfactory Academic Progress in and to successfully graduate from a Category 3 program students must:

- Earn no more than two total C grades of any combination of “C+” or “C.” (C- grades are not acceptable.)
- Earn no grades lower than a “C”
- Earn an official cumulative GPA (according to matriculation level) of at least 3.000 on Rowan’s 4.000 scale

Policy Prior to Fall 2013 Matriculation

The academic review and minimum graduation requirements review policies will be applied to Rowan graduate and post-baccalaureate students who matriculate beginning Fall 2013 or later; however, current students (those matriculated and active before Fall 2013) will be grandfathered under the prior policy/practice, whose grade and GPA requirements are the same as Academic Review Category 3.

Post-Baccalaureate Certificate in Cartography & GIS

This certificate program is designed to accommodate working professionals in planning, public health, engineering, business, and other areas who wish to gain expertise in cartography and GIS.

Program Requirements

Required Courses

21 s.h.

(s.b.: semester hours/credit hours)

Choose from the following in consultation with the Academic Advisor.

Course #	Course Title	S.H.
Business Courses		
Choose from the following:		
MIS 02150	Integrated Software Tools for Business	3
MIS 02338	Design of Database Systems	3
Computer Science Courses		
Choose from the following:		
CS 01102	Intro to Programming	3
CS 04103	Computer Science & Programming	4
CS 04222	Data Structures & Algorithms	3
CS 04315	Programming Languages	3
Mathematics Courses		
Choose from the following:		
MATH 01122	Precalculus Mathematics	4
MATH 01130	Calculus I	4
MATH 01131	Calculus II	4
MATH 03125	Calculus: Techniques and Applications	3
MATH 03150	Discrete Mathematics	3
Geography Courses		
Choose from the following:		
GEOG 16160	Intro to Mapping & Geographical Information Sciences	3
GEOG 16370	Remote Sensing/Air Photo	3
GEOG 16307	Geography of Transportation	3
GEOG 16391	Field Studies	3
GEOG 16361	Geovisualization	3
GEOG 16261	Cartography	3
GEOG 16350	Quantitative Methods in Geography	3
GEOG 16260	Geographic Information Systems I	3
GEOG 16360	Geographic Information Systems II	3
PLAN 31383	Metropolitan & Regional Planning	3
PLAN 31386	Land Use & Conservation	3

Total Required Credits for the Program

21 s.h.

Foundation Courses

None

Graduation/Exit/Thesis Requirements

None

Minimum Required Grades and Cumulative GPA

The Post-Baccalaureate in Cartography & GIS is a Category 3 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Coordinator/Advisor Contact Information

John Hasse
Robinson Hall
856.256.4812
hasse@rowan.edu

Cooper Medical School of Rowan University

Annette C. Reboli, M.D.

Dean

856.361.2800

reboli@rowan.edu

Jocelyn Mitchell-Williams, M.D., Ph.D.

Associate Dean for Diversity & Community Affairs

856.361.2800

williamsjo@rowan.edu

Susan M. Perlis, Ed.D.

Associate Dean for Medical Education

856.361.2830

perliss@rowan.edu

Harry Mazurek, Ph.D.

Associate Dean for Research

856.361.2800

mazurek@rowan.edu

Erin Pukenas, M.D.

Assistant Dean for Student Affairs

856.361.2806

pukenas@rowan.edu

William Kocher, M.D.

Associate Dean Admissions

856.361.2800

kocher@rowan.edu

Nick Stamatiades, MBA

Principle Business Officer

856.361.2800

stamatiades@rowan.edu

Rose Kim

Assistant Dean for Faculty Affairs

856.361.2800

kimr@rowan.edu

Mission Statement

Cooper Medical School of Rowan University is committed to providing humanistic education in the art and science of medicine within a scientific and scholarly community in which inclusivity, excellence in patient care, innovative teaching, research, and service to our community are valued. Our core values include a commitment to: diversity, personal mentorship, equity, professionalism, collaboration and mutual respect, civic responsibility, patient advocacy, and life-long learning.

Vision

Cooper Medical School of Rowan University will distinguish itself as an innovative leader in medical education and related research with emphasis on developing and validating comprehensive systems of healthcare for underserved populations as a model to address the challenges of accountable patient care in 21st century and beyond.

Departments

The medical school is comprised of the following departments: Biomedical Sciences, Medical Education, Student Affairs & Admissions, Diversity & Community Affairs, Research, Program & Business Development, and Finance, Administration & Operations.

Academic Program Policy Categories

For the purposes of both the Minimum Satisfactory Academic Progress policy and the Minimum Graduation Requirements policy, post-baccalaureate/graduate academic programs administered by Rowan Global at Rowan University fall into one of three major categories which are identified by their grade requirements as outlined below. (See individual program descriptions for academic categories.)

Category 1: To maintain Minimum Satisfactory Academic Progress in and to successfully graduate from a Category 1 program students must:

- Earn no more than two total “B-“ grades
- Earn no grades lower than a “B-”
- Earn an official cumulative GPA (according to matriculation level) of at least 3.000 on Rowan’s 4.000 scale

Category 2: To maintain Minimum Satisfactory Academic Progress in and to successfully graduate from a Category 2 program students must:

- Earn no grades lower than a “B-”
- Earn an official cumulative GPA (according to matriculation level) of at least 3.000 on Rowan’s 4.000 scale

Category 3: To maintain Minimum Satisfactory Academic Progress in and to successfully graduate from a Category 3 program students must:

- Earn no more than two total C grades of any combination of “C+” or “C.” (C- grades are not acceptable.)
- Earn no grades lower than a “C”
- Earn an official cumulative GPA (according to matriculation level) of at least 3.000 on Rowan’s 4.000 scale

Policy Prior to Fall 2013 Matriculation

The academic review and minimum graduation requirements review policies will be applied to Rowan graduate and post-baccalaureate students who matriculate beginning Fall 2013 or later; however, current students (those matriculated and active before Fall 2013) will be grandfathered under the prior policy/practice, whose grade and GPA requirements are the same as Academic Review Category 3.

Post-Baccalaureate Programs (Non-degree)

Post-Baccalaureate Certificate in Advanced Premedical Studies

The Post-Baccalaureate in Advanced Premedical Studies at CMSRU is a flexible academic enhancement program offered through Cooper Medical School of Rowan University (CMSRU) and Rowan Global. Courses are led by expert faculty and build upon the knowledge base of the premedical core sequence from an undergraduate degree, incorporating high-level problem solving and teamwork. Students will engage in a fast-paced hybrid curriculum that combines online sessions with active learning modalities, augmenting the learning skills they will need in order to excel in medical school. Focused advising and professional development occur throughout the program, including the medical school application process. Successful students who excel in the program and meet specific linkage agreement criteria are eligible for an automatic interview at local participating allopathic, osteopathic and podiatric medical schools.

Program Requirements

Total credit hours required for program completion: 27 Semester Hours (S.H.)

Required Courses

12 s.h.

(s.h.: semester hours/credit hours)

Course #	Course Title	S.H.
SOC 08121	Introduction to Sociology for the Premedical Student	3
PSY 01108	Essentials of Psychology for the Pre-Health Student	3
PMED 01310	Medical Biochemistry: A Clinical Approach	3
PMED 01320	Cellular Basis of Molecular and Regenerative Medicine	3
PMED 01420	Human Physiology	3
PMED 01430	Medical Microbiology	3
PMED 01410	Medical Genetics	3
PMED 01440	Mechanisms of Disease	3
PMED 01210	Introduction to Public Health	3

Total Required Credits for the Program

27 s.h.

Foundation Courses

None

Graduation/Exit, Benchmark, and/or Thesis Requirements

None

Minimum Required Grades and Cumulative GPA

The Post-Baccalaureate in Advanced Premedical Studies is a Category 3 program.

For details regarding satisfactory academic progress and graduation requirements, please visit www.rowanu.com/policies.

Program Contact Information

David Swope

Director of Program Development

Assistant Professor of Medicine

swope@rowan.edu

Faculty List

Department of Accounting and Finance

Du, Jingyi (Jenny)(2019) <i>B.A., Southwestern University of Finance and Economics; Ph.D., Rutgers University</i>	Assistant Professor
Folkinshteyn, Daniel(2011) <i>B.A. Yale; MS, MBA, Ph.D Temple University</i>	Assistant Professor
Henry, Joseph(2019) <i>B.A., University of California at Irvine; M.S., West Virginia University; Ph.D., The Pennsylvania State University</i>	Assistant Professor
Hughes, Diane(1987) <i>B.A., Rutgers College; M.B.A., Long Island University; J.D., Rutgers University</i>	Associate Professor
Isik, Ihsan(2001) <i>B.S., Middle East Technical University; M.S., Texas Tech University, M.A., Ph.D., University of New Orleans</i>	Professor
Lysak, Amy(2017) <i>B.S., Rutgers University (New Brunswick); M.S., University of Virginia; Ph.D., Rutgers University (Newark)</i>	Assistant Professor
Marmon, Richard(1986) <i>B.S., Glassboro State College (Rowan); M.B.A., LaSalle University; J.D., Widener University; CPA; CMA; LL.M., Villanova University</i>	Associate Professor
McFarland, Daniel J.(2002) <i>B.S., M.B.A., Ph.D., Drexel University</i>	Professor
McGrath, William(2018) <i>B.S., St. Joseph's University; M.B.A., Drexel University</i>	Lecturer
Moore, Jordan(2017) <i>B.S., Massachusetts Institute of Technology; M.S.B.A., Ph. D., University of Rochester</i>	Assistant Professor
Omar, Ayishat(2018) <i>B.S., Ahmadu Bello University; M.B.A., Morgan State University; Ph.D., Morgan State University</i>	Assistant Professor
Papakroni, Erlina(2019) <i>B.S., University of Tirana; M.P.A., Ph.D., West Virginia University</i>	Assistant Professor
Romeo, George(1979) <i>B.S., Rider College; M.S., Loyola College; Ph.D., Drexel University; CPA</i>	Professor
Sacchetta, Robert(2018) <i>B.A., Rowan University; M.S., Drexel University, CPA</i>	Lecturer
Sagedy, Robert(2018) <i>B.S., St. Francis de Sales; M.B.A., Mount St. Mary's; CPA</i>	Lecturer
Scarpa, Robert(2013) <i>B.S., St. Joseph's University; M.B.A., Drexel University</i>	Instructor
Smolarski, Jan(2018) <i>B.S., Montana State University; M.B.A., Texas A Ph.D., University of North Texas</i>	Associate Professor
Uygur, Ozge(2010) <i>B.S., Middle East Technical University; Ph.D., Temple University</i>	Associate Professor
Van Hook, Andrew(2018) <i>B.S., Rowan University; M.S., Goldy-Beacom College; CPA</i>	Lecturer
Wang, Jia(2007) <i>B.S., Tsinghua University; M.S., Ph.D., University of Massachusetts-Amherst</i>	Associate Professor

Faculty List

Weidman, Stephanie M.(1995) <i>B.S., University of Delaware; M.B.A., Duke; Ph.D., Drexel University; CMA</i>	Professor
Xue, Ying (Ian)(2019) <i>B.S., University of Hong Kong; M.S., Stanford University; Ph.D., Duke University</i>	Assistant Professor
Zhang, Mei(2009) <i>B.A., M.S., Tsinghua University-China; Ph.D., University of Maryland</i>	Associate Professor
Department of Art	
Adelson, Fred(1974) <i>B.A., Univ. of Massachusetts; M.A., M.Phil., Ph.D., Columbia University</i>	Professor
Appelson, Herbert(1967) <i>B.A., Brooklyn College; M.S., M.F.A., Univ. of Wisconsin; Ed.D., Columbia University</i>	Professor
Conradi, Janet(2009) <i>B.A., M.A., Iowa State University</i>	Professor
Drumgoole, Jennifer()	Lecturer
Ohanian, Nancy L.(1992) <i>B.F.A., Layton School of Art and Design; M.F.A., Pratt Institute</i>	Professor
Scarpone, Phillip()	Lecturer
Sweigert, Donna()	Associate Professor
Thomas, Skeffington N.(1997) <i>B.A., Lewis and Clark College; M.F.A., Southern Illinois University</i>	Professor
Department of Biological Sciences	
Bealor, Matthew(2010) <i>B.S., California State University; M.S., San Diego State University; Ph.D., University of Colorado</i>	Assistant Professor
Crumrine, Patrick(2006) <i>B.S., Plattsburgh State University; Ph.D., University of Kentucky</i>	Associate Professor
DiStefano, Ginnene(2018) <i>B.A., Arcadia University; Ph.D., Drexel University</i>	Lecturer
Eaton, Gregory(2018) <i>B.S., Rowan University; Ph.D., Thomas Jefferson University</i>	Lecturer
Grove, Michael W.(2001) <i>B.S., The Ohio State University; Ph.D., University of South Carolina</i>	Associate Professor
Hecht, Gregory B.(1995) <i>B.A., University of Rochester; M.A., Ph.D., Princeton University</i>	Associate Professor
Holbrook, Luke T.(1999) <i>B.S., Fordham University; M.S., Ph.D., University of Massachusetts</i>	Professor
Hough, Gerald(2003) <i>B.S., Purdue University; M.S., Ph.D., The Ohio State University</i>	Associate Professor
Krufka, Alison(2003) <i>B.S., College of William and Mary; Ph.D., University of Wisconsin-Madison</i>	Associate Professor
Krummenacher, Claude(2014) <i>B. S., Ph.D. University of Lausanne, Switzerland</i>	Assistant Professor
O'Brien, Terry(2000) <i>B.S., M.S., University of Iowa; Ph.D. University of California - Berkeley</i>	Associate Professor

Faculty List

Richmond, Courtney E.(2001) <i>B.A., Swarthmore College; Ph.D., University of South Carolina</i>	Professor
Ruhl, Nathan(2019) <i>B.S., Allegheny College; M.S., Saint Joseph's University; Ph.D., Ohio University</i>	Lecturer
Spielman, Stephanie(2018) <i>Sc.B., Brown University; Ph.D., the University of Texas at Austin</i>	Assistant Professor
Tahamont, Maria(1993) <i>B.A., Rowan University; M.S.Ed., Ph.D., Southern Illinois University</i>	Professor
Thomas, Shelly(2019) <i>B.S., Eastern University; Ph.D., University of Maine</i>	Lecturer
Travis, Matthew(2018) <i>B.A., Bowdoin College; Ph.D., State University of New York at Stony Brook</i>	Lecturer
Vojvodic, Sijetlana(2014) <i>B.A., M.Sc. University of South Alabama; Ph.D. University of Copenhagen</i>	Assistant Professor
Wright, Sara(2019) <i>B.S., The University of Texas at Austin; Ph.D., Washington University</i>	Lecturer
Department of Biomedical Engineering	
Beachley, Vince(2014) <i>B.S. Virginia Tech; Ph.D. Clemson University</i>	Associate Professor
Brewer, Erik(2018) <i>B.S., M.S., Ph.D. Drexel University</i>	Lecturer
Byrne, Mark(2014) <i>B.S., Carnegie Mellon University; M.S., Ph.D., Purdue University</i>	Professor and Department Head
Daringer, Nichole(2019) <i>B.S.E., University of Iowa; Ph.D. Northwestern University</i>	Assistant Professor
Galie, Peter(2015) <i>BSE - Princeton University; MS Rensselaer Polytechnic; Ph.D -University of Michigan</i>	Assistant Professor
Shim, Jiwook Shephen(2016) <i>BS, Hankuk University of Foreign Studies, MS, Ph.D. University of Missouri</i>	Assistant Professor
Staehle, Mary M.(2010) <i>B.S., The Johns Hopkins University; Ph.D., University of Delaware</i>	Associate Professor
Vega, Sebastian(2018) <i>B.S., Carnegie Mellon University; Ph.D., Rutgers University</i>	Assistant Professor
Department of Chemical Engineering	
Dahm, Kevin D.(1999) <i>B.S., Worcester Polytechnic; Ph.D., Massachusetts Institute of Technology</i>	Professor
Gephardt, Zenaida Otero(1989) <i>B.S., Northwestern University; M.S., Ph.D., University of Delaware</i>	Associate Professor
Hesketh, Robert P.(1996) <i>B.S., University of Illinois, Champaign-Urbana; Ph.D., University of Delaware</i>	Professor
Meadowcroft, Tom(2018) <i>B.S., University of Toronto; M.S., Massachusetts Institute of Technology; Ph.D., Massachusetts Institute of Technology</i>	Lecturer
Newell, James(1998) <i>B.S., Carnegie-Mellon University; M.S., Penn State University; Ph.D., Clemson University</i>	Professor

Faculty List

Noshadi, Iman(2017) <i>B.S., Shiraz University, Iran; M.S., University Technology Malaysia; Ph.D., University of Connecticut</i>	Assistant Professor
Savelski, Mariano J.(1999) <i>B.S., University of Buenos Aires; M.S., University of Tulsa; Ph.D., University of Oklahoma</i>	Professor and Department Head
Slater, C. Stewart(1995) <i>B.S., M.S., M. Ph., Ph.D., Rutgers University</i>	Professor
Stanzione III, Joseph F.(2013) <i>B.S., Drexel University, Ph.D., University of Delaware</i>	Associate Professor
Thompson, Gary(2017) <i>B.S., University of South Carolina; Ph.D., Clemson University</i>	Assistant Professor
Vernengo, Jennifer(2009) <i>B.S., Ph.D., Drexel University</i>	Associate Professor
Yenkie, Kirti(2017) <i>B. Tech, Laxminarayan Institute of Technology, India; M. Tech, Indian Institute of Technology; Ph.D., University of Illinois at Chicago</i>	Assistant Professor
Department of Chemistry and Biochemistry	
Caputo, Greg(2007) <i>B.S., The Stevens Institute of Technology; Ph.D., Stony Brook University</i>	Professor
Grinias, James(2016) <i>B.S., Eastern Michigan University; Ph.D., University of North Carolina-Chapel Hill</i>	Assistant Professor
Hoy, Erik(2018) <i>BS, Tennessee Technological University; MS, The University of Chicago; PhD, The University of Chicago</i>	Assistant Professor
Jonnalagadda, Subash(2008) <i>B.Sc., Pondicherry University; M.Sc., University of Hyderabad; Ph.D., Purdue University</i>	Professor
Keck, Thomas(2014) <i>B.S., University of Southern California; Ph.D., Oregon Health & Science University</i>	Assistant Professor
Kelly, Mary Allison(2018) <i>BS, University of Maryland; PhD, University of North Carolina, Chapel Hill</i>	Lecturer
Lu, Ping(2019) <i>B.S., M.S., Donghua University; Ph.D., University of California - Davis</i>	Assistant Professor
Mishchuk, Olena(2019) <i>B.S., M.S., Ternopil National Pedagogical University; Ph.D. Yuriy Fedkovych Chernivtsi National University</i>	Lecturer
Moura-Letts, Gustavo(2013) <i>B.S., Universidad Peruana; Ph.D., University of Pittsburgh</i>	Associate Professor
Mucha, Neil(2018) <i>BS, Pennsylvania State University; PhD, University of Vermont</i>	Lecturer
Mugweru, Amos(2006) <i>B.S., Jomo Kenyatta University of Agriculture and Technology; Ph.D., University of Connecticut</i>	Professor
Nemmara, Venkatesh(2019) <i>B.Sc., University of Calicut; M.Sc., Pondicherry University; Ph.D., Wesleyan University</i>	Assistant Professor
Perez, Lark(2012) <i>B.S., Long Island University; Ph.D., Yale University</i>	Associate Professor
Pilarz, Matthew(2018) <i>BS, Tufts University; MS, University of Pennsylvania; PhD, Purdue University</i>	Lecturer

Faculty List

Ramanujachary, Kandalam V.(1994) <i>B.S., Andhra University; M.S., Andhra University; Ph.D., Indian Institute of Technology</i>	Professor
Toal, Siobhan(2019) <i>B.S., Carnegie Mellon University; Ph.D., Drexel University</i>	Lecturer
Vaden, Timothy(2010) <i>B.S., Midwestern State University; Ph.D., University of Illinois</i>	Associate Professor
Wu, Chun(2013) <i>B.S., Xiamen University; Ph.D., University of Delaware</i>	Associate Professor
Yu, Lei(2008) <i>B.S., M.S., Jilin University; Ph.D., Changchun Institute of Applied Chemistry</i>	Professor
 Department of Civil and Environmental Engineering	
Bauer, Sarah(2018) <i>B.S., Rowan University, MS, University of Virginia, Ph.D., University of Virginia</i>	Assistant Professor
Cleary, Douglas B.(1998) <i>B.S., M.S., Ph.D., Purdue University</i>	Professor
Dusseau, Ralph A.(1995) <i>B.S., M.S., Ph.D., Michigan State University</i>	Professor
Everett, Jess W.(1998) <i>B.S., M.S., Ph.D., Duke University</i>	Professor
Iranmanesh, Amir(2018) <i>Ph.D., Auburn University</i>	Lecturer
Jahan, Kauser(1996) <i>B.S., Engineering University, Bangladesh; M.S., University of Arkansas; Ph.D., University of Minnesota</i>	Professor and Department Head
Jalayer, Mohammad(2018) <i>B.S. Azad University of Mashhad; MS Sharif University of Technology; Ph.D. Auburn University</i>	Assistant Professor
Lombay, Gilson(2016) <i>BS - Mapua Institute of Technogy; ME - Asian Institute; PhD AIT / Iowa State University</i>	Assistant Professor
Mehta, Yusuf A.(2001) <i>B.S., University of Bombay, India; M.S., University of Oklahoma; Ph.D., Pennsylvania State University</i>	Professor
Nazari, Rouzbeh(2014) <i>B.S., Isfahan University of Technology, Iran; M.S., City University of New York; Ph.D., City University of New York</i>	Associate Professor
Riddell, William(2004) <i>B.S., University of Massachusetts-Amherst; Ph.D., Cornell University</i>	Associate Professor
Sukumaran, Beena(1998) <i>B.S., Trivandrum Engineering College, India; M.S., Auburn University; Ph.D. Purdue University</i>	Professor
Torlapati, Jagadish(2019)	Lecturer
Zhu, Cheng(2017) <i>B.Eng., Nanyang Technological University, Singapore; M.Eng., Nanyang Technological University, Singapore; M.S., Georgia Institute of Technology; Ph.D., Georgia Institute of Technology</i>	Assistant Professor
 Department of Communication Studies	
Albone, Kenneth(1982) <i>B.S. Lake Superior State College; M.A., Miami University; Ph.D., Bowling Green State</i>	Associate Professor
Benavidez, Harriet(2000) <i>B.A., Purdue University; M.A., University of Hawaii</i>	Instructor

Faculty List

Coleman, Miles(2015) <i>B.A., M.A., California State University at Sacramento; Ph.D., University of Washington</i>	Assistant Professor
Coughlan, Patricia A.(2018) <i>B.A. Rowan University (Glassboro State College); M.A., University of Connecticut</i>	Lecturer
Crown, Samantha T.(2018) <i>B.A. Rowan University; M.A., Villanova University</i>	Lecturer
Cypher, Joy M.(2000) <i>B.A., Loyola University, Chicago; M.A., Ph.D., Purdue University</i>	Associate Professor
Feaster, John(2010) <i>B.S., West Virginia University; M.A., Ph.D., Ohio State University</i>	Associate Professor
Harman, Katherine R.(2018) <i>B.A. Rowan University; M.A., Towson University</i>	Lecturer
Haynes, Julie A.(1998) <i>B.A., University of Richmond; M.A., Texas A&M University; Ph.D., Pennsylvania State University</i>	Associate Professor
Hottle, Andrew D.(2004) <i>B.A., M.A., Ohio State University; Ph.D., Temple University Tyler School of the Arts</i>	Professor
Ikpah, Maccamas M.(1994) <i>B.A., Eastern Washington University; M.E., Gonzaga University; Ed.D., Oklahoma State University</i>	Associate Professor
Kluch, Yannick G.(2018) <i>B.A., Hochschule Mittweida (FH), M.A., Ph.D., Bowling Green State University</i>	Assistant Professor
Marshall, Pam(2010) <i>B.A., Montclair State Univeristy; M.A., Temple University</i>	Instructor
Popa, Clara(2004) <i>B.A., University of Bucharest; M.A., Ph.D., Kent State University</i>	Associate Professor
Schowalter, Daniel F.(2002) <i>B.S., University of Wisconsin-Stevens Point; M.A., University of Arkansas; Ph.D., Indiana University</i>	Associate Professor
Shi, Rui(2018) <i>B.A. Beijing Foreign Studies University; M.A. Wake Forest University; Ph.D. University of Pennsylvania</i>	Assistant Professor
Strasser, Daniel S(2012) <i>B.A. College of Mount Saint Joseph; M.A. Northern Kentucky University; Ph.D., University of Denver</i>	Associate Professor
Department of Computer Science	
Baliga, Ganesh R.(1993) <i>B. Tech., M. Tech., Indian Institute of Technology, Bombay; M.S., Ph.D., University of Delaware</i>	Professor
Bergmann, Seth D.(1980) <i>B.S., Rensselaer Polytechnic Institute; M.S.E., University of Pennsylvania.</i>	Associate Professor
Breitzman, Anthony(2016) <i>B.S., Stockton University; M.A., Temple University; M.S., Ph.D, Drexel University</i>	Associate Professor
Chien, Chia(2017) <i>B.S., M.S., Drexel University</i>	Lecturer
Chu, Heng Yi (Mike)(2018) <i>B.S., Johns Hopkins University, M.S.B.A., Temple University, Executive Master, University of Pennsylvania</i>	Lecturer
Heydari, Vahid(2017) <i>Ph.D., University of Alabama</i>	Assistant Professor
Hnatyshin, Vasil Y.(2003) <i>B.S., Widener University; M.S., Ph.D., University of Delaware</i>	Professor

Faculty List

Ho, Shen-Shyang(2016) <i>B.S., National University of Singapore; M.S., Ph.D., George Mason University</i>	Assistant Professor
Hristescu, Gabriela(2000) <i>B.S.E., Polytechnic Institute of Bucharest, Romania; M.S., Ph.D., Rutgers University.</i>	Associate Professor
Kay, Jennifer S.(1998) <i>B.A., B.S.E., University of Pennsylvania; M.S., Ph.D., Carnegie Mellon University</i>	Professor
Levy, Jacob(2018) <i>B.S., The College of New Jersey, M.S., Rowan University</i>	Lecturer
Lobo, Andrea F.(1997) <i>B.S., Universidad de Costa Rica; M.S., Ph.D., University of Delaware</i>	Professor
McKee, Patrick(2018) <i>B.A. Rowan University, M.S., Rowan University</i>	Lecturer
Provine, Darren(2018) <i>B.S., University of Maryland, M.A., Rowan University</i>	Lecturer
Qiu, Chenxi(2018) <i>B.S., Xidian University, Ph.D., Clemson University</i>	Assistant Professor
Sun, Bo (Beth)(2017) <i>Ph.D., Old Dominion University</i>	Associate Professor
Tinkham, Nancy Lynn(1990) <i>B.S., Wheaton College; Ph.D., Duke University</i>	Assistant Professor
Wang, Ning(2018) <i>B.S., University of Electronic Science and Technology, Ph.D., Temple University</i>	Assistant Professor
Xu, Jianning(1988) <i>B.S., Harbin Institute. of Technology, China; M.S., Ph.D., Stevens Institute. of Technology</i>	Professor
Department of Educational Services and Leadership	
Callueng, Carmelo(2016) <i>B.A., St. Paul University; M.S., De La Salle University; Ph.D, University of Florida</i>	Assistant Professor
Coaxum III, James(1999) <i>B.S., Morehouse College, Ed.M., Harvard University; Ph.D., Vanderbilt University</i>	Associate Professor
Ieva, Kara(2010) <i>B.A., Towson University; M.Ed., Towson University/Loyola College; Ph.D., University of Central Florida</i>	Associate Professor
Kerrigan, Monica(2010) <i>B.S., Haverford College; M.A., Teachers College; Ed.D., Teacher's College</i>	Associate Professor
Lu, Huan-Tang(2018) <i>B.S., National Taiwan University; m.S. State University of NY at Plattsburg; P.h.D, Ohio University</i>	Assistant Professor
McCombs, Tyrone(2001) <i>B.A., M.A., Rutgers University; Ph.D. University of Pennsylvania</i>	Associate Professor
Mitani, Hajime(2016) <i>B.A. Nihon University, Ed.M., Columbia University; PhD, Vanderbilt University</i>	Assistant Professor
Sam, Cecile(2016) <i>B.A., Loyola Marymount University; M.A., Loyola Marymount University; Ph.D, University of Southern California</i>	Assistant Professor
Sharp, Carol(1987) <i>B.A., Glassboro State College; M.A., William Paterson College; Ph.D., Penn State University</i>	Professor
Sun, Anna Qian(2014) <i>B.A. Tianjin Teachers' College, Ed. M., Ph.D. State University of New York at Buffalo (SUNY)</i>	Assistant Professor

Faculty List

Thompson, Carol(2006) <i>B.A., Wake Forest University; M.Ed., Duke University; Ph.D., University of Pennsylvania</i>	Associate Professor
Turner Johnson, Ane(2009) <i>B.A., Hollins College; M.S., George Mason University; Ph.D., Virginia Tech</i>	Assistant Professor
Walpole, MaryBeth(2000) <i>B.A., Wells College; M.A., Stanford University; Ph.D., UCLA</i>	Professor
Williams, Barbara Bole(2001) <i>B.A., Muskingum College; M.A., M.A., Glassboro State College; Ph.D., Temple University</i>	Professor
Wilson-Hill, Zalphia(2014) <i>B.A., Temple University; M.A., Glassboro State College; EdD, Rowan University</i>	Lecturer
Wright-Mair, Raquel(2019) <i>B.A., Ithaca College; M.S., Florida International University; Ph.D, University of Denver</i>	Assistant Professor
Department of Electrical and Computer Engineering	
Bouaynaya, Nidhal(2013) <i>B.S. Ecole Nationale Supérieure de l'Electronique et de ses Applications; M.S., Ph.D. University of Illinois at Chicago</i>	Professor
Chin, Steven(1997) <i>B.S., Rutgers University; M.S., The Johns Hopkins University; Ph.D., Rutgers University</i>	Professor
Head, Linda M.(1998) <i>B.S., M.S., Ph.D., University of South Florida</i>	Associate Professor
Krchnavek, Robert R.(1998) <i>B.S., Marquette University; M.S., California Institute of Technology; Ph.D., Columbia University</i>	Professor
Li, Jie(2019) <i>B.S., Xi'an Jiaotong University; M.S., Xi'an Jiaotong University; Ph.D., Illinois Institute of Technology</i>	Assistant Professor
Mandayam, Shreekanth(1997) <i>B.S. Bangalore University, M.S., Ph.D. Iowa State University</i>	Professor
Muhlbaier, Michael(2018) <i>B.S., M.S., Rowan University</i>	Lecturer
Polikar, Robi(2001) <i>B.S., Istanbul Technical University; M.S., Ph.D., Iowa State University</i>	Professor and Department Head
Ramachandran, Ravi Prakash(1997) <i>B.Eng., Concordia University; M.Eng., Ph.D., McGill University</i>	Professor
Rasool, Ghulam(2018) <i>B.S. National Univ. of Science and Technology, M.S., Center for Advances Studies in Engineering, Pakistan; Ph.D. University of Arkansas</i>	Assistant Professor
Schmalzel, John L.(1995) <i>B.S., M.S., Ph.D., Kansas State University</i>	Professor
Shin, Sangho(2015) <i>B.S., Korea Aerospace University; M.S, Ph.D, Korea Advanced Institute of Science and Technology (KAIST)</i>	Assistant Professor
Tang, Ying (Gina)(2002) <i>B.S., M.S., Northeastern University, China; Ph.D., New Jersey Institute of Technology</i>	Professor
Wu, Ben(2016) <i>B.S., Nankai University; Ph.D., Princeton University</i>	Assistant Professor
Department of Electrical and Computer Engineering, Department of ExEEd	
Al-Quzwini, Mahmoud(2018) <i>B.S., M.S., Ph.D. Al-Nabrain University</i>	Lecturer

Faculty List

Department of English

Carrasquillo, Marci(2011) <i>B.A., University of Connecticut; M.A., Ph.D., University of Oregon</i>	Associate Professor
Coulombe, Joseph L.(2001) <i>B.A., University of St. Thomas; M.A., Ph.D., University of Delaware</i>	Professor
Crowley, Dustin(2015) <i>BA, Graceland University; MA, PHD, University of Kansas</i>	Assistant Professor
Falck, Claire(2013) <i>B.A., Bowdoin College; M.A., Ph.D., University of Wisconsin, Madison</i>	Associate Professor
Freind, William(2005) <i>A.B., College of the Holy Cross; M.A., Syracuse University; Ph.D., University of Washington</i>	Associate Professor
Hammond, Yvonne(2018) <i>B.A., University of Saint Mary; M.A., University of Montana; Ph.D., West Virginia University</i>	Lecturer
Hyde, Emily(2015) <i>BA, Yale University; MA, PHD, Princeton University</i>	Assistant Professor
Meadowsong, Zena(2010) <i>B.A., Princeton University; M.A., Ph.D., Stanford University</i>	Associate Professor
Plourde, Bruce(2013) <i>B.A., Davidson College; M.A., Wake Forest University; Ph.D., Temple University</i>	Lecturer
Slater, Katharine(2014) <i>B.A., Sonoma State University; M.A., Ph.D., University of California, San Diego</i>	Assistant Professor
Smith, Marquita(2019) <i>B.A., Rutgers; M.A., Rutgers; Ph.D., McMaster University</i>	Assistant Professor
Solomon, Christina(2018) <i>B.A., University of Wisconsin, Madison; M.A., Ph.D., University of Connecticut, Storrs</i>	Lecturer
Talley, Lee(2002) <i>B.A., Cornell University; M.A., Ph.D., Princeton University</i>	Professor
Vitto, Cindy L.(1989) <i>B.A., Susquehanna University; M.A., Duke University; Ph.D., Rice University</i>	Professor
Wilcoxson Catherine W.(1992) <i>B.A., Chatham College; M.A., Ph.D., University of Virginia</i>	Associate Professor

Department of Environmental Science

Christensen, Beth A(2018) <i>B.S. Geological Sciences, Cook College, Rutgers University; M.S. Geological Sciences, Rutgers University; Ph.D., University of South Carolina</i>	Professor/Department Chair
Crumrine, Patrick(2006) <i>B.S., Plattsburgh State University; Ph.D., University of Kentucky</i>	Associate Professor
Duran, Daniel(2018) <i>B.S., Stockton University; M.S., University of Missouri; Ph.D., Vanderbilt University</i>	Assistant Professor
Garner, Andra(2019) <i>B.S., Grove City College; M.S., Penn State; Ph.D., Penn State</i>	Assistant Professor
Moore, Eli K.(2018) <i>B.S. Oregon State University; Ph.D. University of Maryland</i>	Assistant Professor
Schutte, Charles(2019) <i>B.S., Univ. of North Carolina; Ph.D., University of Georgia</i>	Assistant Professor

Faculty List

Department of ExEEEd

Barillas, Katie(2018) <i>BS Lafayette College, Easton PA; MS University of Pittsburgh, PhD, University of Pittsburgh</i>	Lecturer
Bodnar, Cheryl(2015) <i>Ph.D. University of Calgary</i>	Associate Professor
Cruz, Juan(2019) <i>B.S., Pontificia Universidad Javeriana; M. Ed., Pontificia Universidad Javeriana; Ph.D., Virginia Tech</i>	Assistant Professor
Farrell, Stephanie(1998) <i>B.S., University of Pennsylvania; M.S., Stevens Institute of Technology; Ph.D., New Jersey Institute of Technology</i>	Professor/Department Head
Harvey, Roberta(1989) <i>B.A., M.A., University of North Dakota; Ph.D., University of Wisconsin-Milwaukee</i>	Associate Professor
Mallouk, Kaitlin(2014) <i>B.S., Cornell University, M.S., Ph.D. University of Illinois</i>	Assistant Professor
Streiner, Scott(2017) <i>BS, University of Pittsburgh, MS, North Carolina State University, PhD, University of Pittsburgh</i>	Assistant Professor

Department of Geography, Planning and Sustainability

Bucknum, Megan(2018) <i>B.A., Rutgers University; M.S., Johns Hopkins University</i>	Lecturer
Christman, Zachary(2012) <i>B.A. University of Pennsylvania, Ph.D., Clark University</i>	Associate Professor
Federman, Richard(2018) <i>B.A. & B.S, James Madison University; M.U.E.P., University of Virginia</i>	Lecturer
Hasse, John E.(2001) <i>B.A., Rowan University; M.S., Ph.D., Rutgers University, AICP</i>	Professor
Howell, Jordan(2013) <i>B.A., William & Mary; M.A., Ph.D., Michigan State</i>	Associate Professor
Keenan, Kevin P.(2018) <i>B.A., M.S.State University of NY at Stony Brook; M.A. Hunter College, Ph.D. Clark University</i>	Associate Professor Department Chair
Kitson, Jennifer(2015) <i>B.A., San Francisco State University; M.A., Cal State University, Los Angeles; Ph.D., Arizona State University</i>	Assistant Professor
McGlynn, Charles(2012) <i>B.A. Rowan University; M.A., Ph.D., Rutgers University</i>	Assistant Professor
Meenar, Mahbubur R.(2016) <i>B.Arch., Bangladesb University of Engineering and Technology; M.U.P., SUNY Buffalo; Ph.D., Temple University</i>	Assistant Professor
York, Ashley(2019) <i>B.S., University of Nevada, Reno; M.S., Northern Arizona University; M.A., Clark University; Ph.D., Clark University</i>	Lecturer

Department of Geology

Connolly, Harold C.(2016) <i>B.A. Rutgers University; M.S. Rutgers University; Ph.D. Rutgers University</i>	Professor/ Department Chair
Goddard, Andrea Stevens(2018) <i>B.S. Purdue University, Ph.D. University of Arizona</i>	Assistant Professor
Lacovara, Kenneth(2015) <i>BS, Rowan University; MS. University of Maryland; Ph.D., University of Delaware</i>	Professor

Faculty List

Rustic, Gerald(2017) <i>BS Univ. of Rochester; MS Rutgers New Brunswick, PhD, CUNY</i>	Assistant Professor
Ullmann, Paul(2017) <i>BS. Montana State Univ.; Ph.D. Drexel Univ.</i>	Assistant Professor
Voegele, Kristyn(2018) <i>B.A. Concordia College; Ph.D. Drexel University</i>	Assistant Professor
Department of Health and Exercise Science	
Biren, Gregory Blake(2000) <i>B.A., Shippensburg; M.Ed., Ph.D., Temple University</i>	Associate Professor
Buhrer, Nancy(1973) <i>B.A., College of William and Mary; M.S., University of North Carolina; Ed.D., Temple University</i>	Assistant Professor
Bullard, Joanne(2013) <i>B.S., SUNY at Cortland; M.S.S., Ball State University; Psy.D., Temple University</i>	Assistant Professor
Cribbs, Ciaran(2018) <i>MS, Texas Women's University</i>	Lecturer
Dankel, Scott(2019) <i>B.A. Rowan University, M.S. University of Mississippi, Ph.D. University of Mississippi</i>	Assistant Professor
Freidenreich, Daniel(2016) <i>B.S., Rutgers University; M.A., Ph.D., University of Connecticut</i>	Assistant Professor
Garcia, Christina(2019) <i>B.A. John Carroll University, M.S. Temple University</i>	Lecturer
Gibb, Jessica(2018) <i>MS, University of Louisville</i>	Lecturer
Klein, Dylan(2018) <i>BS, Rutgers; Ph.D, Rutgers University</i>	Assistant Professor
Kneeshaw-Price, Stephanie(2019) <i>B.S. University of Washinton, M.S. Univeristy of Sciences in Philadelphia, Ph.D. University of Washington</i>	Lecturer
Mann, Douglas P.(1998) <i>B.A., University of Miami; M.S., Old Dominion University; DPE., Springfield College</i>	Associate Professor
Pletcher, Erin(2017) <i>PhD Pittsburgh</i>	Assistant Professor
Rattigan, Peter J.(2000) <i>B.Ed., Avery Hill College; M.A., Ph.D., University of Minnesota</i>	Professor
Riccardo, Chrstina(2018) <i>PHD, Rutgers University</i>	Lecturer
Spencer, Leslie S.(1995) <i>B.B.A., James Madison University; M.S., Springfield College; Ph.D., Temple University</i>	Professor
Sterner, Robert Lance(2001) <i>B.S., East Stroudsburg University; M.S., University of Pittsburg; Ph.D., University of Toledo</i>	Associate Professor
Tenison, Elizabeth(2018) <i>ABD, Rutgers University</i>	Assistant Professor
Uygur, Mehmet(2010) <i>B.S., Middle East Technical University; MS, Ph.D., University of Delaware</i>	Assistant Professor
Vaughn, Nicole(2017) <i>PhD UHS-Bethesda</i>	Assistant Professor

Faculty List

Vaughn, Nicole(2016) <i>B.S., Morgan State University; M.S., Ph.D., Uniformed Services University of Health Sciences</i>	Assistant Professor
Weaver, Robert(2016) <i>B.A., SUNY Cortland; M.A., University of Connecticut; Ph.D., University of Connecticut</i>	Professor
Willis, Shari(2003) <i>B.S., Northeast Missouri State; Ph.D., University of Utah</i>	Assistant Professor
Department of History	
Blake, Corinne L.(1992) <i>B.A., University of Cal-Berkeley; Ph.D., Princeton University</i>	Associate Professor
Blanck, Emily(2008) <i>B.A., University of Texas at Austin; M.A., College of William and Mary; Ph.D., Emory University</i>	Associate Professor
Carrigan, William D.(1996) <i>B.A., University of Texas at Austin; M.A., Ph.D., Emory University</i>	Professor
Dack, Mikkel(2018) <i>B.A., University of Calgary; M.A., University of Waterloo; D.Phil, University of Calgary</i>	Assistant Professor
Duke-Bryant, Kelly(2009) <i>B.A., Kenyon College; M.A., University of Wisconsin, Madison; M.A., Johns Hopkins University</i>	Associate Professor
Hague, Stephen(2013) <i>B.A., SUNY-Binghamton; M.A., University of Virginia; Ph.D., Oxford University</i>	Assistant Professor
Heinzen, James W.(2000) <i>B.A., Trinity College; Ph.D., University of Pennsylvania</i>	Professor
Klapper, Melissa R.(2001) <i>B.A., Goucher College; Ph.D., Rutgers University</i>	Professor
Lindman, Janet M.(1994) <i>B.A., St. Olaf College; M.A., Ph.D., University of Minnesota</i>	Professor
Manning, Jody(2018) <i>B.A., Clark University; M.A., Clark University</i>	Lecturer
Morschauer, Scott(2003) <i>B.A., Gettysburg College; Ph.D., Johns Hopkins University</i>	Professor
Rose, Chanelle(2008) <i>B.A., M.A., Florida International University; Ph.D., University of Miami</i>	Associate Professor
Sharnak, Debbie(2019) <i>B.A., Vassar College; M.A., Ph.D., University of Wisconsin-Madison</i>	Assistant Professor
Turner, Katherine(2018) <i>B.A., Reed College; Ph.D., University of Delaware</i>	Lecturer
Wang, Q. Edward(1992) <i>B.A., M.A., East China Normal University; Ph.D., Syracuse University</i>	Professor
Wiltenburg, Joy Deborah(1991) <i>B.A., M.A., University of Rochester; Ph.D., University of Virginia</i>	Professor
Department of Interdisciplinary and Inclusive Education	
Accardo, Amy()	Assistant Professor
Brown, Corine(2006) <i>B.S., Bloomsburg University; M.A., M.Ed., Ph.D., University of Virginia</i>	Associate Professor

Faculty List

<p>Edwards, Nicole(2013) <i>B.S., State U of Nj Geneseo; M.A., New York University; Ph.D., U Maryland College Park</i></p>	<p>Associate Professor</p>
<p>Freedman, Justin(2018) <i>BS, TCNJ, M.Ed, TCNJ</i></p>	<p>Assistant Professor</p>
<p>Isik-Ercan, Zeynep(2013) <i>Ph.D. Early Childhood and elementary Education, The Ohio State University</i></p>	<p>Professor</p>
<p>Kuder, S. Jay(1984) <i>B.A. Trinity College; M.Ed., Temple University; Ed.D., Boston University</i></p>	<p>Professor</p>
<p>Kye, Hannah(2017) <i>PhD Columbia</i></p>	<p>Assistant Professor</p>
<p>Lee, Jiyeon(2010) <i>B.F.A.; Sookmyung Women's University; M.S. Pennsylvania State University; Ph.D. Purdue University</i></p>	<p>Associate Professor</p>
<p>Morettini, Brianne(2013) <i>B.A., University of Richmond; M.S.E.d., University of Pennsylvania; Ph.D. University of Maryland</i></p>	<p>Associate Professor</p>
<p>Rodriguez, Yvonne(1973) <i>B.A., Rutgers University; M.A., Glassboro State College; Ed.D., Temple University</i></p>	<p>Professor</p>
<p>Rotas, Nikki(2018) <i>H.B.A. University of Toronto; B.Ed., University of Ottawa; M.A., Ph.D. University of Toronto</i></p>	<p>Assistant Professor</p>
<p>Sheppard, Mary(2012) <i>B.A., Lehigh University; M.A., Ed.D., Boston University</i></p>	<p>Assistant Professor</p>
<p>Shuff, Margaret(1995) <i>B.A., M.A., Glassboro State College; Ph.D., University of Delaware</i></p>	<p>Associate Professor</p>
<p>Sudeck, Maria R.(2001) <i>B.S., College of New Jersey; M.Ed., Ph.D., Temple University</i></p>	<p>Associate Professor</p>
<p>Vitalone-Raccaro, Nancy(2012) <i>B.A., Springfield College; M.A., University of South Florida; Ph.D., Temple University</i></p>	<p>Assistant Professor</p>
<p>Woodfield, Casey L.(2018) <i>B.A., Providence College; M.S., C.A.S., Ph.D. Syracuse University</i></p>	<p>Assistant Professor</p>
<p>Xin, Joy F.(1994) <i>B.A., Tsitsihar Teachers College, China; M.Ed., Ed.D., Peabody College of Vanderbilt University</i></p>	<p>Professor</p>
Department of Journalism	
<p>Berkey-Gerard, Mark(2008) <i>B.S., Eastern University; M.S., Columbia University</i></p>	<p>Associate Professor</p>
<p>DiUlio, Nicholas(2019) <i>B.A., Temple University; M.A., Fort Hays State University</i></p>	<p>Lecturer</p>
<p>Garyantes, Dianne(2014) <i>B.A., Pennsylvania State University; M.P.A., Rutgers University - Camden; Ph.D., Temple University</i></p>	<p>Assistant Professor</p>
<p>Hausman, Carl D.(1997) <i>B.A., University of the State of New York; M.A., Antioch University; Ph.D., Union Institute</i></p>	<p>Professor</p>
<p>Kelley, Candace(2004) <i>B.A., Howard University; J.D., Seton Hall University of Law; M.S., S.I. Newhouse School of Public Communications</i></p>	<p>Associate Professor</p>
<p>Quigley, Kathryn (2002) <i>B.A., Villanova University; M.A., University of Maryland</i></p>	<p>Associate Professor</p>
<p>Steiner, Emil(2018) <i>B.A., University of Pennsylvania; M.A., Temple University; Ph.D., Temple University</i></p>	<p>Assistant Professor</p>

Department of Language, Literacy and Sociocultural Education

Abraham, Stephanie(2014) <i>PhD, Language & Literacy Education, University of Georgia</i>	Assistant Professor
Alvarez, Adam Julian(2018) <i>B.A., Huston-Tillotson University; M.Ed., University of Texas at Austin; Ph.D. University of Pittsburg</i>	Assistant Professor
Browne, Susan(2003) <i>B.A., Temple University; M.A., Cheyney University; Ed.D., University of Pennsylvania</i>	Associate Professor
Chen, Xiufang(2006) <i>B.A., Qufu Normal University; M.A., Beijing Normal University; Ph.D., Texas Tech University</i>	Associate Professor
Glazer, Jeremy(2018) <i>BA, Amherst College, M.S.Ed. University of Pennsylvania; Ph.D., Stanford University</i>	Assistant Professor
Holder, Kit K.(1993) <i>B.A., Hampshire College; M.S. Bank Street College; Ed.D. University of Massachusetts</i>	Assistant Professor
Kedley, Kate(2017) <i>PhD Iowa</i>	Assistant Professor
Lee, Valarie(2006) <i>B.A., M.A., Ed.D., University of Northern Colorado</i>	Associate Professor
Leftwich, Stacey E.(1999) <i>B.A., Glassboro State College; M.Ed., Temple University; Ph.D., State University of New York, Albany</i>	Associate Professor
Madden, Marjorie(2003) <i>B.A., College of William and Mary; M.A., Glassboro State College; Ph.D., University of Pennsylvania</i>	Associate Professor
McGinn Luet, Kathryn(2013) <i>B.A. Bryn Mawr College; M.S. University of Pennsylvania</i>	Associate Professor
Phillips, Anne E.(2001) <i>B.A., M.A., Antioch College; Ph.D., University of Pennsylvania</i>	Assistant Professor
Seltzer, Kate(2018) <i>B.A., The George Washington University; M.S. CUNY Lehman College; Ph.D. CUNY Graduate Center</i>	Assistant Professor
Wassell, Beth(2004) <i>B.A., Rowan University; M.A., University of Central Florida; Ed.D., University of Pennsylvania</i>	Professor
Willett, Holly G.(1997) <i>B.A., San Francisco State College; M.L.S., University of California, Berkeley; M.A., Simmons College; Ph.D., University of North Carolina at Chapel Hill</i>	Associate Professor

Department of Law and Justice Studies

Ammar, Nawal(2016) <i>B.Sc., M.Sc. University of Salford, Greater Manchester University; Ph.D. University of Florida</i>	Professor
Capellan, Joel(2016) <i>B.A. Buffalo State College; M.A. University of Chicago; Ph.D. CUNY Graduate Center</i>	Assistant Professor
Foglia, Wanda D.(1994) <i>B.A., Rutgers University; J.D., Ph.D., University of Pennsylvania</i>	Professor
Houser, Kimberly(2014) <i>B.S., The College of New Jersey; M.A/ Ph.D. Temple University</i>	Assistant Professor
Jiao, Allan(1995) <i>B.A., Central South University; M.A., Lewis and Clark College; Ph.D., Rutgers University</i>	Professor
Johnson, Joseph D.(2010) <i>B.S., Southwest Minnesota State University; M.A. University of Northern Iowa; Ph.D.. Michigan State University</i>	Associate Professor

Faculty List

Leech, Dean(2018) <i>B.A., Catawba College; M.A. Bowling Green State University; J.D., South Texas College of Law</i>	Lecturer
Lewandowski, Carla(2013) <i>B.A., Princeton University; M.S., University of Oxford; M.A., Ph.D., University of Pennsylvania</i>	Associate Professor
Mastrocinque, Jeanna(2017) <i>B.A., University of Delaware; M.A., Ph.D; University at Albany, State University of New York</i>	Assistant Professor
Pich, Michele(2018) <i>BS, MS Temple University</i>	Lecturer
Samsel, Tiffany(2013) <i>MS, St. Joseph's University</i>	Instructor
Saum, Christine(2007) <i>B.S., University of Delaware; M.A., University of Florida; Ph.D., University of Delaware</i>	Associate Professor
Schell-Busey, Natalie(2010) <i>B.A., M.A., University of Arizona; Ph.D., University of Maryland</i>	Associate Professor
Schwartz, Jeffrey(2018) <i>B.A., Rowan College; M.A., Florida State University</i>	Lecturer
Shjarback, John(2019) <i>B.S., Penn State University; M.A., Monmouth University; Ph.D., Arizona State University</i>	Assistant Professor
Sorg, Evan(2015) <i>B.A, M.A., Ph.D. Temple University</i>	Assistant Professor
Vigorita, Michael S.(1998) <i>B.S., M.A., Ph.D., Rutgers University</i>	Associate Professor
Weiss, Michael S.(2001) <i>B.A., Brooklyn College; J.D., Brooklyn Law School; M.A., Ph.D., University at Albany, State University of New York</i>	Associate Professor
Yeldell, Stanley(1974) <i>B.A., Bowie State University; J.D., Howard University School of Law</i>	Associate Professor
Department of Management and Entrepreneurship	
Banutu-Gomez, Michael B.(2000) <i>B.A., Eastern Connecticut State University; M.S.W., Boston University; Ph.D., Case Western Reserve University</i>	Professor
Billing, Tejinder (2009) <i>B.Tech, Punjab Agriculture University; MBA, Punjabi University; Ph.D., University of Memphis</i>	Associate Professor
Casper, Camron W(2013) <i>BS and MBA Brigham Young University; PhD Oklahoma State University</i>	Associate Professor
D'Intino, Robert(2004) <i>A.B., University of California; M.B.A., University of North Carolina at Chapel Hill; Ph.D., Virginia Polytechnic Institute and State University</i>	Professor
Dominik, Michael T.(2018) <i>B.S., Rutgers University; M.B.A., Rowan University; M.S., University of Pennsylvania; Ph.D., Eastern University</i>	Lecturer
Fleming, Robert S.(1989) <i>B.S., Philadelphia College of Textiles & Science; M.A.R., Eastern Baptist Theological Seminary; M.G.A., University of Pennsylvania; M.B.A., M.S., Ed.D., Temple University</i>	Professor
Jonsen, Richard(2019) <i>BA, San Francisco State University, MS University of San Francisco; Ph.D Eastern University</i>	Lecturer
Lee, Jooh(1988) <i>B.B.A., Kook-Min University; M.S., Colorado State University; Ph.D., University of Mississippi</i>	Professor

Faculty List

Lehrman, Sue(2015) <i>PhD; MPH - UC Berkley; BS - Oregon State University</i>	Dean
Liguori, Eric(2017) <i>B.S., Florida State University; M.B.A., University of South Florida; Ph.D., Louisiana State University</i>	Professor
Mirchandani, Dilip(1989) <i>B.S., M.B.A., University of Bombay, India; Ph.D., Temple University</i>	Professor
Pati, Niranjana(2008) <i>B.Tech., Ranchi University, India; M.Tech, Indian Institute of Technology, India; M.S., Ph.D., Northwestern University</i>	Professor
Qu, Yuanmei (Elly)(2017) <i>B.S., Xi'an University of Architecture and Technology; M.S., Xi'an Jiaotong University; Ph.D, University of Miami</i>	Assistant Professor
Roh, James Jungbae(2009) <i>B.A., Dongguk University; M.A., M.B.A., Ph.D., University of Toledo</i>	Associate Professor
Rudin, Joel P.(1999) <i>B.A.Sc., University of Toronto; M.S., Ph.D., Cornell University</i>	Professor
Santos, Susana C.(2018) <i>B.S., Universidade de Lisboa; Ph.D., ISCTE-IUL Business School</i>	Assistant Professor
Schoen, Edward J.(1999) <i>B.S., LaSalle University; J.D., Georgetown University</i>	Professor
Yang, Yang(2013) <i>B.A., Southwestern University of Finance and Economics; Ph.D., University of Western Ontario</i>	Associate Professor
Zane, Lee(2018) <i>BS Rowan University, PhD. Drexel University</i>	Associate Professor
Zhu, Faye X.(2000) <i>B.S., Shanghai Institute of Mechanical Engineering; M.B.A., Ashland University; D.B.A., Cleveland State University</i>	Professor
Department of Marketing and Business Information Systems	
Barbro, Patrick(2015) <i>B.S., University of Delaware; M.B.A., St. Joseph's University; Ph.D., Temple University</i>	Assistant Professor
Espinosa, Jennifer(2016) <i>B.A. University of South Florida; M.B.A., University of South Florida; Ph.D., University of South Florida</i>	Assistant Professor
Guner, Berrin (1997) <i>B.A., Marmara University; M.B.A., St. Joseph's University; Ph.D., Drexel University</i>	Professor
Hand, John Jeffrey(2011) <i>BS Temple University; MA West Chester University; Ph.D Drexel University.</i>	Associate Professor
Hsiao, Steven(2019) <i>B.A., Chung Yuan Christian University; M.B.A., Chung Yuan Christian University; Ph.D., University of Kentucky</i>	Assistant Professor
Kendrick, Colleen(2019) <i>BBA., Temple University, MSBA, San Fransisco State University</i>	Lecturer
Kordrostami, Elika(2018) <i>BS, University of Tebran, M.D.A, Shabid Bebeshti University, Ph.D., Old Dominion University</i>	Assistant Professor
Krey, Nina(2016) <i>B.B.A., M.B.A., The University of Louisiana at Monroe; D.B.A., Louisiana Tech University</i>	Assistant Professor
Kuppusamy, Saravanan(2018) <i>B.S., Coimbatore Institute of Technology India; M.S., West Virginia University; P.b.D., University of Cincinnati</i>	Assistant Professor
Lewis, Phillip A.(1993) <i>B.A., M.B.A., Wright State University; M.A., Ph.D., The Ohio State University</i>	Associate Professor

Faculty List

Liu, Xia (Linda)(2014) <i>B.A., Shandong Normal University, 1996; M.S., Brigham Young University, 2004; M.B.A., Thunderbird School of Global Management, 2009; Ph.D., Louisiana State University, 2014</i>	Assistant Professor
Milovich, Michael(2016) <i>B.A., Capital University; M.B.A., Ph.D., Baylor University</i>	Assistant Professor
Nicholson, Darren(2005) <i>B.A., Ph.D., Washington State University</i>	Professor
Nicholson, Jennifer(2005) <i>B.A., Ph.D., Washington State University</i>	Associate Professor
Patterson, Patrice(2018) <i>B.S., University of Scranton; M.B.A., Cleveland State University</i>	Lecturer
Pontes, Manuel(2000) <i>B.Sc., University of Bombay; M.Sc., Indian Institute of Technology; Ph.D., University of California; Ph.D., University of Florida</i>	Professor
Ramani, Vahid(2017) <i>PhD. Old Dominion</i>	Assistant Professor
Shen, Yide(2012) <i>BS WUHAN University; MS Univ. of Nebraska at Omaha, PHD Georgia State Univ.</i>	Associate Professor
Wu, Shuang(2019) <i>B.A. University of Shanghai for Science and Technology; M.B.A., Louisiana Tech University; D.B.A., Louisiana Tech University</i>	
Department of Mathematics	
Abay, Abera(1993) <i>B.Sc., M.Sc., Addis Ababa University, Ethiopia; Ph.D., Temple University</i>	Associate Professor
Barden, Christine I.(2019) <i>B.S., West Chester University; M.A., Widener University</i>	Lecturer
Beil, Norman B.(2019) <i>B.S., M.S., Ph.D., University of Virginia</i>	Lecturer
Bendjilali, Nasrine(2013) <i>B.S., Petra University, Jordan; M.S., Ph.D., Lehigh University</i>	Associate Professor
Czochor, Ronald(1983) <i>B.S., Union College; M. of B.Ma., Ph.D., North Carolina State University</i>	Professor
Daniels, Benjamin(2018) <i>B.A., M.A., Rowan University</i>	Lecturer
Dickerson, Catharine H.(2018) <i>B.S., Cornell University; M.S., University of Pennsylvania</i>	Lecturer
Gummo, Bethany(2013) <i>B.S., Widener University; M.B.A., Baldwin-Wallace College; M.A. Villanova University</i>	Instructor
Hassen, Abdulkadir(1996) <i>B.Sc., M.Sc., Addis Ababa University, Ethiopia; Ph.D., Temple University</i>	Professor
Heinz, Karen Ruth(2003) <i>B.S., Penn State University; M.A., The Ohio State University; Ph.D. Penn State University</i>	Professor
Herman, Marlana F.(2002) <i>B.S., Indiana University of Pennsylvania; M.Ed., Pennsylvania State University; Ph.D., The Ohio State University</i>	Professor
Ilicasu, Fatma Olcay(2001) <i>B.S., Middle East Technical University, Turkey; M.S., Ph.D., University of Wisconsin -Milwaukee</i>	Associate Professor

Faculty List

Lacke, Christopher J.(1998) <i>B.A., Bowdoin College; M.S., University of Southern Maine and North Carolina State University; Ph.D., North Carolina State University</i>	Associate Professor
Laumakis, Paul J.(1998) <i>B.S., Drexel University; M.A., Villanova University; Ph.D., Lehigh University</i>	Professor
Lee, Ik Jae(2013) <i>B.S., Inha University, South Korea; M.S., Inha University; Ph.D., Kansas State University</i>	Instructor
Li, Ming-Sun(1997) <i>M.A., Ph.D., University of California at Santa Barbara</i>	Associate Professor
Lufi, Rebeca V.(2019) <i>B.S., M.S., Tennessee Technological University; M.A., Temple University</i>	Lecturer
Milou, Eric(1997) <i>B.A., Franklin & Marshall College; M.A., West Chester University; Ed.D., Temple University</i>	Professor
Nguyen, Hieu Duc(1996) <i>B.S., University of Minnesota; Ph.D., University of California, Berkeley</i>	Professor
Nguyen, Thanh Trung(2017) <i>B.S., M.S., Vietnam National University; Ph.D., Vrije Universiteit.</i>	Assistant Professor
Osler, Thomas(1972) <i>B.S., Drexel University; M.S., Ph.D., New York University</i>	Professor
Pan, Juming(2019) <i>B.A., Shandong University; M.S., Ph.D., Bowling Green State University</i>	Assistant Professor
Papachristou, Charlampos(2015) <i>B.Sc., Aristotle University, Greece; Ph.D., The Ohio State University</i>	Associate Professor
Russell, Jeremy(2018) <i>B.A., The College of New Jersey; M.S., Ph.D., Northeastern University</i>	Lecturer
Schultz, Laura M.(2019) <i>B.A., Ripon College; M.A., Ph.D., Princeton University</i>	Lecturer
Sherman, Cass(2018) <i>B.A., Drew University; Ph.D., University of North Carolina</i>	Lecturer
Simons, Christopher Smyth(2000) <i>B.Sc., McGill University; M.A., Ph.D., Princeton University</i>	Associate Professor
Thayasivam, Umashanger(2009) <i>B.A., University of Colombo, Sri Lanka; M.S., Ph.D. University of Georgia</i>	Associate Professor
Weinstock, Evelyn(1987) <i>B.S., M.S., University of Delaware; Ph.D., Drexel University</i>	Assistant Professor
Whittinghill, Dexter C.(1996) <i>B.A., Middlebury College; M.S., University of Wisconsin-Milwaukee; M.S., Ph.D., Purdue University</i>	Associate Professor
Wright, Marcus(1986) <i>A.B., Harvard University; M.S., Ph.D., Stanford University</i>	Assistant Professor
Zeng, Xiaoming(1985) <i>B.M., Northeast Ind. College, China; M.M., Academy of Science, China; Doctor of Science, Washington University</i>	Professor
Department of Mechanical Engineering	
Amadoro, Melanie(2016) <i>B.S., Drexel University; M.S. Drexel University</i>	Lecturer

Faculty List

Bakrania, Smitesh(2008) <i>B.S., M.S., Union College; Ph.D., University of Michigan</i>	Associate Professor
Bhatia, Krishan(2005) <i>B.M.E., University of Delaware; M.S., Ph.D., Pennsylvania State University</i>	Associate Professor
Chandrupatla, Tirupathi R.(1995) <i>B.E., Osmania University, India; M. Tech. Design and Production, Indian Institute of Technology (India); Ph.D., University of Texas at Austin</i>	Professor
Haas, Francis(2016) <i>BS, MS Drexel University, Ph.D. Princeton University</i>	Assistant Professor
Jha, Ratan(2018) <i>B.A. University Delhi; M.S. University of Wisconsin, Milwaukee, Ph.D. Purdue University</i>	Professor and Department Head
Koochbor, Behrad(2019) <i>B.S., Sharif University of Technology; M.S., Sharif University of Technology; Ph.D., University of South Carolina</i>	Assistant Professor
Merrill, Thomas L.(2008) <i>B.S., Bucknell University; M.S., University of Michigan; Ph.D., Pennsylvania State University</i>	Associate Professor
Miri, Amir(2018) <i>B.S. Iran University of Science & Technology; M.S. Sharif University of Technology; Ph.D. McGill University</i>	Assistant Professor
Osta, Anu(2019)	Lecturer
Sharifi, Nourouddin(2018) <i>B.S., Ferdowsi University of Mashhad; M.S., University of Tebran; Ph.D., University of Connecticut</i>	Lecturer
Trkov, Mitja(2019) <i>B.Sc., University of Ljubljana; Ph.D., Rutgers University</i>	Assistant Professor
Xue, Wei(2015) <i>B.S., M.S., Shandong University, China, Ph.D., University of Minnesota</i>	Associate Professor
Zhang, Hong(2000) <i>B.S., Tsinghua University, China; M.S., Ph.D., University of Pennsylvania</i>	Associate Professor
Department of Molecular and Cellular Biosciences	
Alpaugh, Mary(2016) <i>B.S., King's College; Ph.D., University of Houston</i>	Associate Professor
Bausch, Suzanne(2016) <i>B.A., Metropolitan State College; Ph.D., University of Washington</i>	Professor
Carone, Benjamin(2016) <i>B.S., Ph.D., University of Connecticut</i>	Assistant Professor
Chen, Yong(2019) <i>B.S., Shandong University, China, Ph.D., joint from Shandong U and University of Georgia</i>	Assistant Professor
Iftode, Cristina(2001) <i>B.S., M.S., University of Bucharest; M.S., Ph.D., New York University-Medical Center</i>	Professor
Soto, Ileana(2015) <i>B.S., Ph.D., University of Puerto Rico</i>	Assistant Professor
Department of Music	
Adams, Barbara(2019) <i>B.A. Temple University, M.A. Rowan University</i>	Lecturer
Appleby-Wineberg, Bryan K.(2001) <i>B.M., Oberlin College; M.M., Cleveland Institute; D.M.A., Rutgers University</i>	Professor

Faculty List

Barnes, Adrian(2016) <i>B.A., Bethne-Cookman University; M.M.E, Florida State University</i>	Assistant Professor
Brashier, Rachel(2018) <i>B.M. Eastern Illinois University, M.M. Southern Illinois University, Ph.D. Eastman School of Music</i>	Assistant Professor
Ceriani, Davide(2013) <i>D., Conservatory of Bologna; L.L., University of Florence; Ph.D., Harvard University</i>	Associate Professor
Dammers, Richard(2006) <i>B.M., Northwestern University; M.M., Ph.D., University of Illinois</i>	Professor
DiBlasio, Denis(1994) <i>B.A., Glassboro State College; M.M., University of Miami</i>	Professor
Gendreau, Mathieu(2013) <i>D.E.C. Colle ge de Musique de Saint-Laurent; M.A. University of Westminster</i>	Associate Professor
Higgins, Joseph(2015) <i>B.M., University of Georgia; M.M., Northwestern University</i>	Assistant Professor
Hunt, Andi(2018) <i>B.M. Michigan State University, M.M.T. Temple University, Ph.D. Temple University</i>	Assistant Professor
Kolek, Adam(2018) <i>B.M. Skidmore College, M.M. Smith College, Ph.D. University of Massachusetts</i>	Assistant Professor
Mapp, Douglas(2001) <i>B.M. Philadelphia College of the Performing Arts; M.M., Temple University</i>	Professor
Mayes, Joseph(1993) <i>B.A., Edison College; M.M., Shenandoah University</i>	Professor
McArthur, Michael(2018) <i>B.A. University of Maryland</i>	Lecturer
Oliveira, Fabio(2019) <i>B.M. Sao Paulo State University, M.M. University of Massachusetts, D.M. University of California</i>	Assistant Professor
Plant, Lourin(1993) <i>B.M.E., Wittenberg University; M.M., D.M.A., College Conservatory of Music, University of Cincinnati</i>	Assistant Professor
Rawlins, Robert(1997) <i>B.A., Glassboro State College; M.A., California State University; M.A., Rowan University; M.A., Ph.D., Rutgers University</i>	Professor
Schwarz, Timothy(2015) <i>B.M., College Conservatory of Music, University of Cincinnati; M.M., Peabody Conservatory of Music, John Hopkins University; D.M.A, Temple University</i>	Assistant Professor
Stieber, Marian(1998) <i>B.M., M.M., Temple University</i>	Professor
Thomas, Christopher B.(2011) <i>B.M., Millikin University, M.M., D.M.A. University of Arizona</i>	Associate Professor
Zuponic, Veda(1971) <i>B.M., M.M., Indiana University</i>	Professor
Department of Nursing	
Becker, Patricia R(2018) <i>RN, Chestnut Hill Hospital School of Nursing; BSN, LaSalle University; MS, Arizona State University; Ph.D., Weidner University</i>	Assistant Professor
Santucci, Mary Ellen(2015) <i>B.S., St. Joseph's University; B.S.N., M.S.N., Thomas Jefferson University; Ph.D., Widener University</i>	Associate Professor

Faculty List

White, Robert(2016) <i>B.S.N., M.S.N., The College of New Jersey; D.N.P., Rutgers University</i>	Assistant Professor
Department of Philosophy and World Religions	
Ashton, Dianne(1989) <i>B.A., Adelphi University; M.A., Ph.D., Temple University</i>	Professor
Bauer, Nathan(2014) <i>Ph.D. University of Chicago; BA, McGill Univ.; BA Univ. of Calgary</i>	Instructor
Boodman, Eva(2019)	Assistant Professor
Cox, Whitney(2018) <i>B.A. Amherst College; M.Div. Drew University, Ph.D. Temple University</i>	Lecturer
Kazarian, Edward(2018) <i>B.A. Trinity College; M.A., Ph.D. Villanova University</i>	Lecturer
Lund, Matthew(2004) <i>B.S., University of Minnesota; M.A., Ph.D., University of Illinois at Chicago</i>	Associate Professor
Miller, Ellen M.(2001) <i>B.A., Rutgers University, M.A., Ph.D. York University</i>	Associate Professor
Wang, Youru(2000) <i>B.A., Fudan University, China; Ph.D., Temple University</i>	Professor
Witonsky, Abraham(2018) <i>B.A., University of Pennsylvania; M.A., Ph.D. Temple University</i>	Lecturer
Department of Physics and Astronomy	
Dobbins, Tabbetha A(2011) <i>B.S., Lincoln University; M.S., University of Pennsylvania; Ph.D. Pennsylvania State University</i>	Associate Professor
Flores, Eduardo(1988) <i>B.S., New York Polytechnic; M.S., Ph.D., University of Michigan</i>	Associate Professor
Guerra, Erick J.(1998) <i>B.S., University of California, Berkeley; M.A., Ph.D., Princeton University</i>	Associate Professor
Guess, Carol(2018) <i>B.S. Hope College; M.S., Ph.D. Michigan State University</i>	Lecturer
Hettinger, Jeffrey D.(1995) <i>B.A., Mansfield University; M.A., Ph.D., Boston University</i>	Professor
Hu, Xiao(2012) <i>B.S., Nanjing University; M.S., Ph.D., Tufts University</i>	Associate Professor
Klassen, David R.(1998) <i>B.S., University of Minnesota; Ph.D., University of Wyoming</i>	Professor
La Porta, Philip(2014) <i>B.A., Muhlenberg College, M.S., Ph.D., Lehigh University</i>	Instructor
Lim, Michael Jay Young(2003) <i>A.B., Harvard College; Ph.D., University of Michigan</i>	Professor
Ling, Hong(1992) <i>B.S., Jiaxin Teacher's College; M.S., Xian Institute of Optics and Fine Mechanics; Ph.D., Drexel University</i>	Professor
Lofland, Samuel E.(1998) <i>B.S., M.S., Ph.D., University of Maryland</i>	Professor

Faculty List

Magee-Sauer, Karen P.(1989) <i>B.S., University of Virginia; M.S., Ph.D., University of Wisconsin-Madison</i>	Professor
Nucci, Nathaniel(2014) <i>B.S., M.S., University of New Hampshire; Ph.D., University of Pennsylvania</i>	Assistant Professor
Smith, Trevor(2014) <i>B.S., M.S., Ph.D., University of Maine</i>	Assistant Professor
Whiting, Nicholas(2017) <i>B.S., Ph.D., Southern Illinois University</i>	Assistant Professor
Department of Political Science and Economics	
Banko, Lauren(2019) <i>M.A. Temple University, B.A. Pace University</i>	Lecturer
Butler, R. Lawrence(2001) <i>B.A., Washington and Lee University; M.A., George Mason University; M.A. George Washington University; Ph. D., Princeton University</i>	Professor
Gougon, Danielle(2013) <i>Ph.D. Rutgers University; M.A. New School University; B.A. Bloomsburg University</i>	Instructor
Javian, Katherine(2019) <i>Ph.D., M.A. Temple University; B.A. History and Political Science, University of Massachusetts-Amherst</i>	Lecturer
Jha, Stuti(2015) <i>B.A. University Delhi; M.S. University of Wisconsin, Milwaukee, Ph.D. Purdue University</i>	Assistant Professor
Kapri, Kul(2016) <i>M.Sc. Tribhuvan University; M.S. Western Illinois University; Ph.D. Syracuse University</i>	Assistant Professor
Knight-Finley, Misty(2017) <i>PhD UC-Irvine</i>	Assistant Professor
Li, Yupeng(2017) <i>PhD Stonybrook</i>	Assistant Professor
Markowitz, Lawrence(2009) <i>B.A., State University of New York; M.A., The American University; Ph.D. University of Wisconsin</i>	Professor
Melvin, Jesse(2019) <i>Ph.D., M.A., B.A. University of Delaware</i>	Lecturer
Pluta, Anne(2015) <i>B.A. Loyola Maryland; M.A. West Chester University; Ph.D. University of California, Santa Barbara</i>	Assistant Professor
Reaves, Natalie D.(1998) <i>B.S., Rutgers University; M.S., University of North Carolina; Ph.D., Wayne State University</i>	Associate Professor
Somdahl-Sands, Katrinka(2009) <i>B.A., University of Minnesota; M.A., Ph.D., University of Texas</i>	Associate Professor
Department of Psychology	
Abrams, Lisa(2014) <i>B.S., College of Mount Saint Vincent; Ph.D., City University of New York</i>	Instructor
Angelone, Bonnie(2004) <i>B.A., University of Tulsa; M.A., Ph.D., Kent State University</i>	Associate Professor
Angelone, David(2005) <i>B.A., California State University at Sacramento; M.A., Ph.D., Kent State University</i>	Professor
Arigo, Danielle(2018) <i>B.S., Drexel University; M.S., Ph.D., Syracuse University</i>	Assistant Professor

Faculty List

Bogart, Daniel(2019) <i>B.A., Washington University in St. Louis; Ph.D., University of California, Irvine</i>	Lecturer
Brunwasser, Steven(2019) <i>B.A., University of Pennsylvania; M.S., University of Michigan; Ph.D., University of Michigan</i>	Assistant Professor
Davis-LaMastro, Valerie(1989) <i>B.S., Douglass College, Rutgers University; M.S., Villanova University; Ph.D., University of Delaware</i>	Assistant Professor
Dihoff, Roberta(1987) <i>B.A., Rutgers University; M.S., Ph.D., University of Wisconsin at Madison</i>	Professor
Dinzeo, Tom(2008) <i>B.A., University of Minnesota; M.A., Ph.D. Kent State University</i>	Associate Professor
Diorio, Sarah(2019) <i>B.A., Saint Bonaventure University; M.A., The Pennsylvania State University; Psy.D., Immaculata University</i>	Lecturer
Fife, Dustin(2016) <i>B.S., Brigham Young University; M.S., Ph.D., University of Oklahoma</i>	Assistant Professor
Gotham, Katherine(2019) <i>B.A., University of Michigan; Ph.D., University of Michigan</i>	Assistant Professor
Greeson, Jeffrey(2016) <i>B.A., Swarthmore College; M.S., Thomas Jefferson University; Ph.D., University of Miami</i>	Assistant Professor
Haugh, Jim(2001) <i>B.A., Baldwin-Wallace College; M.S., Ph.D., Saint Louis University</i>	Associate Professor
Joppa, Meredith(2014) <i>B.A., Brown University; M.A., Ph.D., University of Denver</i>	Assistant Professor
Kerwin, Mary Louise E.(1996) <i>B.A., M.A., Ph.D., University of Notre Dame</i>	Professor
Martinez, Brittany(2018) <i>B.Sc., Geneva College; Ph.D., The Pennsylvania State University College of Medicine</i>	Lecturer
McElwee, Rory(2003) <i>B.A., Drew University; Ph.D., Cornell University</i>	Professor
Raiff, Bethany(2012) <i>B.A., University of Wisconsin at Eau Claire; M.S., Ph.D., University of Florida</i>	Associate Professor
Simmons, Christina(2017) <i>B.A., Syracuse University; M.A., Ph.D., University of Georgia</i>	Assistant Professor
Sledjeski, Eve(2013) <i>B.S., Mary Washington College; M.A., Kent State University; Ph.D., Kent State University</i>	Assistant Professor
Soreth, Michelle (2006) <i>B.A., Rollins College; Ph.D., Temple University</i>	Associate Professor
Swan, Benjamin(2018) <i>B.S., Kansas State University; M.A., Ph.D., New Mexico State University</i>	Lecturer
Tappe, Karyn(2019) <i>B.A., Haverford College; M.S., Penn State University; Ph.D., Drexel University</i>	Lecturer
Tremoulet, Patrice (Polly)(2017) <i>B.S.E., Princeton University; M.S., Stanford University; M.S., Ph.D., Rutgers University</i>	Assistant Professor
Yingst, James(2019) <i>B.A., Temple University; M.A., The University of Toledo</i>	Lecturer

Faculty List

Young, Chelsie M.(2018) <i>B.A., Eastern Illinois University; M.A., College of William and Mary; Ph.D., University of Houston</i>	Assistant Professor
Yurak, Tricia(1998) <i>B.S., Northern Kentucky University; M.S., Ph.D., Ohio University</i>	Associate Professor
Department of Public Relations and Advertising	
Audio, Regina(2018) <i>B.A. and MA Rowan University</i>	Lecturer
Basso, Joseph(2003) <i>B.A., M.A., Glassboro State College; Ph.D., Texas A & M University; J.D., Widener University; APR</i>	Professor
Bowman, Susan(2002) <i>B.F.A., San Francisco Art Institute; M.F.A., Rutgers University, Mason Gross School of the Arts, M.P.S. Pratt Institute</i>	Professor
FitzGerald, Suzanne Sparks(1994) <i>B.A., Eastern University; M.S., Drexel University; Ph.D., Temple University; APR Fellow PRSA</i>	Professor
Hong, Celine Seoyeon(2018) <i>B.A. Hanyang University, MA Michigan State University, PH.D. University of Missouri</i>	Assistant Professor
Johnson, Kristine(2013) <i>B.S. University of Texas, MS, Texas Christian, Ph.D., Florida State University</i>	Associate Professor
Kim, Bokyung(2012) <i>B.A. Handong Global University, MA, Michigan State University, Ph.D., University of Missouri</i>	Associate Professor
Nia-Schoenstein, Asi(2013) <i>B.A., Clark University; M.S., Boston University; APR</i>	Instructor
Novak, Alison(2015) <i>B.A. Marist College, Ph.D. Drexel University</i>	Assistant Professor
Rodolico, Louis(2018) <i>B.S. Drexel University, MA Temple University</i>	Lecturer
Vilceanu, Olga(2011) <i>B.A., M.A., Bucharest University; Ph.D., Temple University</i>	Associate Professor
Department of Radio, Television and Film	
Almon, Amanda(2014) <i>B.F.A. Medical Illustration, Rochester Institute of Technology; M.F.A Biomedical Visualization, University of Michigan Ann Arbor; C.M.I.</i>	Assistant Professor
Bianculli, David(2009) <i>B.S., M.A., University of Florida</i>	Professor
Bierman, Joseph(1988) <i>B.A., Rowan University; M.F.A., New York University; Ph.D., Regent University</i>	Associate Professor
Biesen, Sheri Chinen(2001) <i>B.A., M.A., University of Southern California; Ph.D., The University of Texas</i>	Professor
Brand, Keith M.(2002) <i>B.F.A., West Virginia University; M.Ed., Temple University</i>	Professor
Donovan, Mike(1972) <i>B.A., Jersey City State College; M.A., New York University</i>	Professor
Mason, Jonathan(2010) <i>B.A., University of Miami; M.F.A., Columbia University</i>	Assistant Professor
Montgomery, Colleen(2017) <i>PhD. Texas</i>	Assistant Professor

Faculty List

Nicolae, Diana(2006) <i>B.A., Bucharest University; M.F.A., University of North Carolina - Greensboro</i>	Professor
Olshefski, Jonathan (2010) <i>B.A., M.F.A., Temple University</i>	Assistant Professor
Politz, Keir(2015) <i>B.A., College of Holy Cross; M.F.A., Columbia University</i>	Assistant Professor
Winkler, Chris(2016) <i>M.A., Syracuse University</i>	Assistant Professor
Department of Science, Technology, Engineering, Art and Mathematics (STEAM)	
Abi-El-Mona, Issam H.(2008) <i>B.S., M.A., American University of Beirut; Ph.D., University of Illinois Urbana-Champaign</i>	Associate Professor
Beale-Tawfeeq, Angela K.(2018) <i>B.A., Howard University; M.S., Howard University; Ph.D, The Florida State University</i>	Associate Professor/Department Chair
Blatt, Erica(2017) <i>PhD New Hampshire</i>	Assistant Professor
Fopeano, Richard J.(1992) <i>B.S., State University of New York; M.A., Ball State University; Ph.D., Temple University</i>	Associate Professor
Graziano, Jane E.(1999) <i>B.S., University of Illinois; M.A., Rowan University; Ed.D, Teachers College, Columbia University</i>	Professor
Kuo, Yu Chun(2015) <i>B.S., M.S. National Taiwan University; Ph.D., Utah State University</i>	Assistant Professor
Perry, Jill Ann(2001) <i>B.S., M.Ed., University of Florida; Ph.D., University of Central Florida</i>	Associate Professor
Wieman, Robert(2012) <i>B.A. Williams College; M.A. City University of New York; Ph.D. Univ. of Delaware</i>	Associate Professor
Department of Sociology and Anthropology	
Abbott, James R.(1990) <i>B.A., University of San Diego; M.A., Ph.D., University of Pennsylvania</i>	Professor
Hartman, Harriet J.(1996) <i>B.A., University of California at Los Angeles; M.A., University of Michigan; Ph.D., Hebrew University of Jerusalem</i>	Professor
Hill, Jane(2013) <i>B.A. University of Mississippi, M.A. University of Memphis (Anthropology), M.A. University of Memphis (Art History-Egyptology) Ph.D., University of Pennsylvania</i>	Instructor
Hutter, Mark(1974) <i>B.A., M.A., Brooklyn College; Ph.D., University of Minnesota</i>	Professor
Joy, Sandra (2003) <i>B.A., Christopher Newport University; M.S.W., Norfolk State University; M.A., Ph.D., Temple University</i>	Professor
Li, Yuhui(1992) <i>B.A., Sichuan Foreign Languages Institute, China; M.A., Ohio University; Ph.D., Ohio State University</i>	Professor
McCann, Sharon(2017) <i>BA, Immaculata; M.S.S & M.L.S.P. Bryn Mawr College</i>	Lecturer
Miller, DeMond S.(1997) <i>B.A., Northeast Louisiana University; M.S., Ph.D., Mississippi State University</i>	Professor
Rich, Jennifer(2014) <i>B.A., Muhlenberg College; M.S.Ed., Bank Street College of Education; Ed.D., Rutgers University</i>	Assistant Professor

Faculty List

Rosado, Maria(1993) <i>B.A., M.A., Ph.D., Rutgers University</i>	Professor
Schug, Seran(2018) <i>B.A., University of Pennsylvania; M.A.; Ph.D. Habnemann University Graduate School (Drexel University),</i>	Lecturer
Sommo, Anthony J.(1992) <i>B.A., M.A., Ph.D., University of Connecticut; M.S.W., Syracuse University</i>	Assistant Professor
Sullivan, Nadine(2018) <i>B.A., Stockton University; M.A., Ph.D. Temple University</i>	Lecturer
Waters, Cory(2018) <i>B.A., Salem State College; M.A., Ph.D. Temple University</i>	Lecturer
Department of Theatre and Dance	
Bazemore, Dawn Marie(2016) <i>B.F.A, SUNY Purchase; M.F.A. Hollins University</i>	Assistant Professor
Durossette, Dirk(2017) <i>B.A. California State, M.F.A. Temple University</i>	Lecturer
Elkins, Leslie A.(2004) <i>B.A., Columbia College; M.Ed., Ph. D., Temple University</i>	Associate Professor
Fusco, Thomas A.(1999) <i>B.A., University of Massachusetts; M.F.A., Boston University</i>	Associate Professor
Grace-Duff, Jamie L.(2018) <i>B.S Drexel, M.F.A Temple University</i>	Lecturer
Hostetter, Anthony(2012) <i>B.F.A., Virginia Commonwealth University; M.F.A. Penn State, Ph.D., University of Missouri</i>	Associate Professor
Hostetter, Elisabeth(2000) <i>B.F.A., Virginia Commonwealth University; M.A., University of Texas; Ph.D., University of Missouri</i>	Professor
Morgan, Michael Dean(2017) <i>B.A. Carroll University; MFA University of California, Irvine</i>	Assistant Professor
Roche, Christopher(2014) <i>B.A. Catholic University; M.F.A. Ohio State University; Ph.D, Ohio State University</i>	Assistant Professor
Savadove, Lane(2007) <i>B.A., Haverford College; MFA, Columbia University</i>	Professor
Stewart, Melanie(1981) <i>B.A., Webster College; M.F.A., Temple University</i>	Professor
Turner, Paule Lawrence(2000) <i>B.F.A., Virginia Commonwealth University; M.F.A., Temple University</i>	Associate Professor
Department of World Languages	
Hernandez, Maria(2018) <i>B.A.,M.A., Université de Provence; M.A. Middlesex University; Ph.D., Rutgers University</i>	Assistant Professor
Kaplis-Hohwald, Laurie A.(1994) <i>B.A., Queens College; M.A., Ph.D., University of Pennsylvania</i>	Associate Professor
Madero, Roberto R.(2001) <i>Licence d'histoire, Paris VII; M.A., Ph.D., Princeton University</i>	Associate Professor
Manley, Marilyn S.(2004) <i>B.A., Boston University; M.A., Ph.D., University of Pittsburgh</i>	Professor

Faculty List

Mas Serna, Maria Esther(2013) <i>B.A., Rowan University; M.A. Universidad de Granada, Spain</i>	Instructor
Matsumura Dusk, Chie(2018) <i>B.A., Tsuru University; M.A. Kansas State University</i>	Lecturer
Mirra, Alessandra(2018) <i>Laurea, Università degli Studi di Roma, La Sapienza; Doctorate, Università degli studi di Macerata; Ph.D. University of Pennsylvania</i>	Lecturer
Mousa, Tarek(2018) <i>B.A., Soubag University; M.A. LaSalle University</i>	Lecturer
Poteau, Christine(2016) <i>B.A. Saint Joseph's University; M.A., Ph.D. Temple University</i>	Assistant Professor
Santos-Quinones, Lorena(2018) <i>B.A., Rowan University; M.A., Temple University</i>	Lecturer
Smith III, Edward C.(1992) <i>B.A., Rutgers University; M.Phil., Ph.D., New York University</i>	Associate Professor
Department of Writing Arts	
Allison, Leslie(2018) <i>B.A., Auburn University; Ph.D., Temple University</i>	Lecturer
Atwood, Megan(2017) <i>B.A., University of Iowa, M.F.A., Hamline University</i>	Assistant Professor
Block, Ronald(2003) <i>B.A., University of Nebraska; M.A., M.S., Syracuse University</i>	Associate Professor
Budris, Kathryn(2018) <i>B.A., Hope College; M.F.A., Roosevelt University</i>	Lecturer
Cesare, Nicole(2018) <i>B.A., Eastern University; M.A., Villanova University; Ph.D., Temple University</i>	Lecturer
Courtney, Jennifer(2004) <i>B.A., Duquesne University; M.A., Western Michigan; Ph.D., Purdue University</i>	Associate Professor
DeRewal, Tiffany(2018) <i>B.A., Messiah College; M.A., Villanova University; Ph.D., Temple University</i>	Lecturer
Del Russo, Celeste(2015) <i>B.A., Wheaton College; M.A., University of New Orleans; M.Sc., University of Oxford; Ph.D., University of Arizona</i>	Assistant Professor
Donaldson, Timothy(2018) <i>B.A., Cedarville College; M.A., Villanova University; M.F.A., Fairfield University</i>	Lecturer
Fera, Doreen(2018) <i>B.A., Temple University; M.F.A., Rutgers University-Camden</i>	Lecturer
Fillenwarth, Gracemarie(2016) <i>B.A., King's College; M.A. Virginia Tech; Ph.D., Purdue University</i>	Assistant Professor
Flocco, Marie(2017) <i>B.A., St. Joseph's University; M.A., Carnegie Mellon University</i>	Lecturer
Han, Aiguo(1993) <i>B.A., Xian Foreign Language University; M.A., Ph.D., Indiana University of Pennsylvania</i>	Associate Professor
Harrell, Cherita(2019) <i>B.A., Rowan University; M.F.A., Rutgers University</i>	Lecturer

Faculty List

Haruch, Amanda(2019) <i>B.A., Rowan University; M.A. University of Idaho</i>	Lecturer
Herberg, Erin V.(2000) <i>B.S., B.A., Western Carolina University; M.A., Ph.D., Georgia State University</i>	Assistant Professor
Howell, Edward(2017) <i>B.A., Eastern University; M.A. Villanova University; Ph.D., Temple University</i>	Lecturer
Jahn-Clough, Lisa(2010) <i>B.A., Hampshire College, M.F.A. Emerson College</i>	Associate Professor
Jones, Jade(2019) <i>B.A., Princeton University; M.F.A University of Iowa</i>	Lecturer
Kopp, Andrew(2009) <i>B.A., University of South Florida; M.A., Ph.D., University of Arizona</i>	Associate Professor
Lafferty, Kristine(2018) <i>B.A., Rowan University; M.A., Rowan University</i>	Lecturer
Lanier, Heather(2019) <i>B.A., University of Delaware; M.A., Johns Hopkins University; M.F.A., Ohio State University</i>	Assistant Professor
Luther, Jason(2017) <i>B.A., B.S., SUNY Fredonia, M.A. University of Nevada, Reno, Ph.D., Syracuse University</i>	Assistant Professor
Martin, Deb(2003) <i>B.S., Western Michigan University; M.A., Ph.D., Texas Woman's University</i>	Professor
Maxson, Jeffrey N.(1994) <i>B.A., Yale University; M.A., Ph.D., University of California at Berkeley</i>	Associate Professor
Mikulski, Keri(2018) <i>B.A., Thomas Jefferson University; M.A., The College of New Jersey; M.F.A., Rutgers University-Camden</i>	Lecturer
Miller, Jude(2018) <i>B.A., Rutgers University-Camden; M.A., Rutgers University-Camden</i>	Lecturer
Partyka, Jaclyn(2019) <i>B.A., Ursinis College; M.A., University of Massachusetts; Ph.D., Temple University</i>	Lecturer
Rausch, Juliana(2019) <i>B.A., Temple University; Ph.D, Temple University</i>	Lecturer
Reed, Amy(2012) <i>B.A., B.S., The Ohio State University; M.A., University of Dayton; Ph.D., Virginia Tech University</i>	Associate Professor
Romano, Catherine(2019) <i>B.A., Rowan University; M.A., Rowan University</i>	Lecturer
Royek, Stephen(2018) <i>B.A., Rowan University; M.A., Rowan University</i>	Lecturer
Shapiro, Rachael(2015) <i>B.A., SUNY Plattsburgh; M.A., Washington State University; Ph.D., Syracuse University</i>	Assistant Professor
Tole, Jennifer(2014) <i>B.A., Ph.D., Temple University</i>	Instructor
Tweedie, Sanford M.(1994) <i>B.A., University of Michigan; M.A., Eastern Michigan University; Ph.D., University of Wisconsin-Milwaukee</i>	Professor
Woodworth, Amy(2011) <i>B.A., New York University; M.A., Rutgers University at Newark; Ph.D., Temple University</i>	Assistant Professor

Course Descriptions

- ACC 03210: Principles of Accounting I 3 s.h.
This course includes accounting theory and practice in the analysis of business transactions and the recording of business data; complete accounting cycle; interpretation of financial data for sole proprietorship, partnerships, corporations and public agencies.
- ACC 03211: Principles of Accounting II 3 s.h.
Prerequisites: ACC 03210
This course includes accounting theory and practice applied to corporations and public agencies; budgeting and estimating; analysis and comparison of cost and financial data.
- ACC 03500: Managerial Accounting 3 s.h.
This course takes a managerial approach with emphasis on decision-making. It includes financial statement analysis and topics on determination of cost behavior using regression analysis and learning curves, activity based costing, cost allocation, performance measurement, and the decision-making process.
- ACC 03502: Advanced Managerial Accounting 3 s.h.
Taking a managerial approach, this course examines decision making by management. It includes topics on activity-based cost allocation, determination of cost behavior using regression analysis and learning curves, cost allocation, the decision-making process and decision models under uncertainty, performance measurement and executive compensation.
- ACC 03503: Corporate and Partnership Taxes 3 s.h.
This course presents an overview of the Federal Tax System relating to various business forms including corporations, partnerships and exempt entities. Students will examine major tax legislation and judicial precedents with a focus on current and pending legislation. Topics will include corporate organization, accumulations and liquidation, partnership formation, S corporations, exempt organizations, estate and gift taxation, including trusts. Research and preparation software will be used throughout the course.
- ACC 03504: Seminar in Auditing 3 s.h.
Students will develop an understanding of the judgmental issues faced in providing audit and assurance services. Further emphasis will be the application of underlying accounting concepts to solve these judgmental issues. In addition, an emphasis will be on the auditor's decision-making process and the nature and amount of evidence the auditor should accumulate given engagement circumstances.
- ACC 03505: Seminar in Business Law 3 s.h.
In this course, students study the legal aspects of sales, liability, secured transactions, commercial paper and consumer credit. In addition, the course will emphasize legal analysis and research.
- ACC 03506: Advanced Domestic & International Accounting 3 s.h.
This financial accounting course focuses on the accounting for corporate mergers and acquisitions, and the accounting and financial reporting requirements of corporations with both domestic and international subsidiaries. It includes coverage of international financial reporting comparability.
- ACC 03507: Government and Non-For-Profit Accounting 3 s.h.
This financial accounting course focuses on the contemporary accounting issues of governmental and non-profit organizations. It includes: financial reporting, budgeting, forecasting and strategic planning in the environments of local, state, federal government, colleges and universities, hospitals, and voluntary health and welfare organizations.
- ACC 03508: Seminar and Research In Accounting 3 s.h.
This seminar provides the opportunity for students to improve their professional research skills and advance their own scholarly development in the accounting field. Taken after five graduate accounting and business law courses, it provides a synthesis of prior learning. Students will work collaboratively with the professor and other enrolled students to develop and complete a major research project and other assignments. Topics may include financial, not-for-profit, managerial, auditing, or tax accounting.

Course Descriptions

ACC 03509: Intermediate Financial Accounting 3 s.h.

This course will include a review of the accounting process, the conceptual framework, the preparation of financial statements and specific principles related to the accounting for current assets, property, plant and equipment, liabilities, leases, income taxes, pensions, and shareholders' equity. Research and empirical evidence will be emphasized. This course is restricted to students who have not taken Intermediate Accounting I and II at the undergraduate level.

ACC 03510: Financial Statement Analysis 3 s.h.

Prerequisite(s): ACC 03310 or ACC03500 or Permission of the Instructor and Admission to the MBA, MS in Finance or COGS in Accounting

This course will take an expanded study of financial statement analysis from the point of view of the primary users of financial statements: equity and credit analysts. The analysis and use of financial statements will also emphasize the properties of numbers derived from these statements, and the features of the environment in which key decisions are made in using financial statement information. Research and empirical evidence will be emphasized.

ACC 03511: Introduction to Federal Taxation 3 s.h.

Prerequisite: Admission into MBA program or Admission into Certificate of Advanced Graduate Study in Accounting program.

Federal income tax concepts, including gross income, deductions, credits, gains and losses from dispositions of property, deferred and tax exempt transactions, assignment of income, tax accounting, and other special topics. Emphasis will be placed on interpreting the Internal Revenue Code and Regulations as well as case law. Students will be required to show evidence of scholarly research through a major writing assignment on an emerging tax issue.

ACC 03512: Advanced Accounting Information Systems and Business Process Controls 3 s.h.

This course is designed to give the MBA student and introduction to the important concepts related to accounting information systems, with emphasis on enterprise risk management. An overview of internal control frameworks is used to discuss pervasive, business process and application controls. A methodology for evaluating the risks and controls within a defined business process is demonstrated and applied across the major business processes. Students will gain hands-on experience with a leading Enterprise Resource Planning system and commercial computerized accounting software.

ACC 03513: CPA Review 3 s.h.

This course provides a review of accounting problems and concepts common on the CPA exam and prepares students to gain the skills and knowledge necessary to pass the CPA exam. Topics covered will include: Financial accounting and reporting, Auditing and attestation, Business environment and concepts, and Regulation.

ACC 03514: Accounting Legal Liability and Professional Responsibility 3 s.h.

Prerequisite(s): MGT 98242 or equivalent

This course is a study of the legal liability of accountants and ethical concepts. It will cover the following areas: the ethical role of the professional accountant, professional codes of conduct, ethical decision making, legal and regulatory obligations, and corporate governance and ethical management.

ACC 03515: Forensic Accounting 3 s.h.

The course provides a broad overview of forensic accounting. It examines current issues of fraud, such as the nature of fraud, types of fraud, identification, detection, and prevention of fraud. The course provided students exposure to case study, analytics and critical thinking in order to confirm the financial information is presented fairly.

FIN 04300: Principles of Finance 3 s.h.

Prerequisite: ACC 03211 AND (STAT 02260 minimum grade of C-) AND (MATH 03125 OR MATH 01130 OR MATH 01140 minimum grade of C-) AND ECON 04101 AND ECON 04102

This course includes the following topics: financial goals; depreciation, taxation and cashflows; financing the firm via short-term, intermediate and long-term debt, and preferred and common stock; capital budgeting and leasing; dividend policy; business growth and contraction.

FIN 04435: International Financial Management 3 s.h.

Prerequisite: FIN 04300 with a minimum grade of C

This course studies financial management in the international environment. Topics include foreign exchange risk management, multinational working capital management, international portfolio investment, foreign direct investment, capital budgeting for the multinational corporation, political risk, international financing and international financial markets.

Course Descriptions

- FIN 04500: Financial Decision Making 3 s.h.
Prerequisite(s): ACC 03510 or ACC 03500 and Prerequisite or Corequisite: MGT 07500
Students in this course will learn valuation techniques including adjusted present value, equity cash flows, and real-option valuation. In addition to comparing alternative valuation techniques and the assumptions and limitations underlying each, students explore the technical difficulties and incentive effects caused by high leverage, the relation between capital structure and capital costs, the interaction between a firm's financial structure and its business strategies, the conditions contributing to potential under or over-valuation of a firm's prospects by the market, and the managerial consequences of such mis-valuation.
- FIN 04505: Advanced Financial Planning 3 s.h.
Prerequisite: Admissions to the MBA or MS in Finance program
Financial planning is the process of meeting life goals through the proper management of finances. Life goals can include buying a home, saving for your child's education or planning for retirement. Through sound financial planning individuals can make decisions that will produce their desired results. In this course, students will learn foundations of financial planning, managing basic assets, managing credit, managing insurance needs, managing investments and prepqring for retirement and estate planning.
- FIN 04510: Independent Study: Finance 1 to 6 s.h.
- FIN 04511: Quantitative Methods in Finance 3 s.h.
Prerequisite: Admission to MBA or MS in Finance program
The objective of this course is to teach students the fundamentals of quantitative finance. The topics covered in the course include asset returns and time value of money, probability and statistics in their applications to financial analysis, portfolio theory and asset pricing models, regression and econometrics for financial data analysis, structure and pricing of financial derivatives, risk quantification and management.
- FIN 04512: Capital Budgeting 3 s.h.
This course includes the following topics: estimation of project cash flows, interest, annuity, and present value calculations, evaluation of projects under conditions of certainty and risk, strategic planning in capital budgeting, and leasing. This course may not be offered annually.
- FIN 04516: Issues in Finance 3 s.h.
Prerequisite(s): FIN 04500 or Permission of Instructor and Admission to MBA program
This course includes the following topics: mergers and acquisitions, financial structure analysis, cost of capital analysis, capital budgeting, portfolio management, financial institutions, money and capital markets, and international finance. This course may not be offered annually.
- FIN 04518: Derivative Securities and Financial Risk Management 3 s.h.
Prerequisite(s): FIN 04600 or Permisson of Instructor and Admission to MBA or MS in Finance program
In this course, students will learn forward, future, option and swap contracts, and hedging, arbitrage, and derivatives-pricing models. In addition, securitization and risk management concepts will be covered. Students will learn how to model and evaluate derivative instruments and their applications to corporate strategy and risk management.
- FIN 04520: Financial Modeling 3 s.h.
Prerequisite(s): FIN 04500 or Permission of Instructor and Admission to MBA or MS in Finance program
The objective of this course is to teach students the fundamentals and practice of building financial models by using Microsoft Excel. Students become familiar with the built-in-functions of Excel and learn how to use them in financial model building with a hands-on-approach. The topics covered in the course include financial statement modeling, cost of capital, capital budgeting modeling, leasing, valuation analysis, portfolio modeling, capital-asset pricing models, option-pricing models, real options modeling, bonds, and term structure modeling.
- FIN 04530: Multinational Financial Management 3 s.h.
Prerequisite(s): FIN 04500 or Permission of Instructor and Admission to MBA or MS in Finance program
The objective of this course is to examine the managerial implications pertaining to the financial operations of the multinational firms of the investments in the international arena. The standard topics in international finance, such as exchange rate determination, foreign exchange risk (exposure), hedging techniques (using derivatives), international corporate valuation and capital budgeting, and sources of funds and the cost of capital in the international bond, stock, and money markets, are examined from a managerial point of view.

Course Descriptions

- FIN 04540: Financial Institutions Management 3 s.h.
Prerequisites: Admissions to MBA or MS in Finance program or Permission of Instructor
In the course, students will learn about the many roles financial service-providers play in the economy today. Students will examine how and why the financial services marketplace as a whole is rapidly changing, becoming new and different as we move forward into the future. Students will also learn the techniques how to measure and manage various financial risks the modern financial institutions face in today's globally competitive financial environment, such as interest rate, market, credit, liquidity, off balance sheet, foreign exchange, sovereign, technology and other operational risks.
- FIN 04560: Fixed Income Securities 3 s.h.
Prerequisite(s): FIN 04500 or Permission of Instructor and Admission to MBA or MS in Finance program
The objective of this course is to teach students the fundamentals of fixed income markets, covering different fixed income security types, and the mathematics of their evaluation and risk management. The topics covered in the course include fixed income security valuation, term structure of interest rates and the yield curve, fixed income risk quantification and management, securities with embedded options, credit derivatives, interest rate derivatives, and portfolio management.
- FIN 04600: Investment Analysis and Portfolio Management 3 s.h.
Prerequisites: MGT 07500 or FIN 04511 or Permission of Instructor and Admission to the MBA or MS in Finance program
Students will analyze and develop an ability to deal with the following topics: investment values and market price with regard to risk, return, portfolio diversification, taxes and inflation. They will also examine the role of fixed income securities versus common stock prices, yields, returns and valuations; warrants, options and future contracts, U.S. and foreign securities markets, and the rapidly developing science of portfolio management as it applies to both the firm and the individual. This course may not be offered annually.
- ARHS 03520: Art Since 1945 3 s.h.
- ART 02523: Graduate Painting I 3 s.h.
Advanced graduate work in concepts, techniques and media appropriate to contemporary painting and individual expression.
- ART 02524: Graduate Painting II 3 s.h.
Further advanced work in painting.
- ART 02532: Graduate Printmaking I 3 s.h.
Advanced graduate work in concepts, techniques and media appropriate to contemporary printmaking and individual expression. Permission of the instructor is strongly advised.
- ART 02533: Graduate Printmaking II 3 s.h.
Further advanced work in printmaking.
- ART 02535: Advanced Graduate Problems In Art 2 to 6 s.h.
Extensive in-depth work at the third or fourth graduate course level in a studies, art education or art history area arranged with permission of the appropriate professor, the graduate advisor and department chairperson.
- ART 02560: Independent Study-Art 3 to 6 s.h.
- ART 09200: Theory and Analysis of Art Education 3 s.h.
This course provides students with an historical knowledge base of the theories, philosophies and persons that have impacted the teaching of art in public schools. Assignments will actively engage learners in developing their own teaching philosophies as they examine current theoretical and pedagogical research, and the national and state curriculum standards for teachers and students of the visual arts.
- ART 09520: Jewelry I 3 s.h.
Emphasis is on original metal design and construction, involving techniques and processes in the designing, forming and finishing of utilitarian and decorative hand-wrought products.
- ART 09521: Jewelry II 3 s.h.
Further advanced work. This course may not be offered annually.

Course Descriptions

ART 09529:	CERAMICS I	3 s.h.
ART 09530:	CERAMICS II	3 s.h.
SMED 31507:	GRAD PROBS	3 s.h.
BIOL 01100:	Biology I	4 s.h.
<p>This course studies the chemical properties of protoplasm; cell structure and cell division; metabolic processes in organisms, including photosynthesis and respiration; principles of genetics including Mendelian laws; evolution and ecological relationships of organisms.</p>		
BIOL 01104:	Introduction to Evolution and Scientific Inquiry	4 s.h.
<p><i>Prerequisite(s): MATH 01100 to 01499 or STAT 02100 to 02499 or MATH 03100 to 03499 with min of grade of D- or So2 min score 550 or S12 min score 570 or A02 min score 24 or ALG min score 77 or CLM/CLMR min score 40</i></p> <p>This laboratory course is designed for freshman Biology majors and is the first of a four-course introductory sequence. This course introduces students to organismal diversity and its evolutionary origins, covers the fundamental concepts of evolutionary theory, and surveys many of the ways that organisms have become adapted to their environments. In addition, students in this course will learn some of the basic skills necessary for scientific inquiry, including the scientific method, critical thinking, experimental design, and the gathering, analysis, and presentation of quantitative data. Credit will not be given for both Introduction to Evolution and Scientific Inquiry (BIOL 01104) and Biology I (BIOL 01100). Priority for enrollment will be given to students declared as Biology majors, Biology minors, Bioinformatics majors, Computer Science majors, Biochemistry majors, Environmental Studies majors, Environmental Studies minors, or Pre-Medical concentration.</p>		
BIOL 01106:	Introduction to Genetics	4 s.h.
<p><i>Prerequisite(s): BIOL 01104 with C- or better and CHEM 06100 with minimum Grade of D-</i></p> <p>This course is designed for first year biology majors and builds on skills and knowledge gained by the students from Introduction to Evolution and Scientific Inquiry. The course focuses on the study of genetic factors in bacteria, viruses, higher plants and animals. The principles of Mendelian, molecular and population genetics will be introduced. Discussion of genetic applications in agriculture, biotechnology, and medicine will be an integral part of the course. The laboratory projects will provide the students with the opportunity to gain hands-on experience with the most common classical and molecular genetics methods. Credit will not be given for both Introduction to Genetics (BIOL 01106) and Biology II (BIOL 01101).</p>		
BIOL 01113:	General Biology: Human Focus	4 s.h.
<p>This one-semester laboratory course provides an introduction to the basic concepts of the biological sciences, including, but not limited to, cell biology, the body plan and organ systems of vertebrate animals, genetics and heredity, and vertebrate evolution. Emphasis will be placed on how these topics relate to the human organism. Laboratory exercises enable the student to visualize many of the concepts discussed in class. No credit toward biology major.</p>		
BIOL 01202:	Biological Skills for Transfer Students	4 s.h.
<p><i>Prerequisites: BIOL 01100 and BIOL 01101</i></p> <p>This laboratory course is designed for students transferring into the Biology major after having completed Biology I and Biology II at another institution. This course will review key topics covered in Introduction to Evolution and Scientific Inquiry, Introduction to Genetics, and Introduction to Cell Biology (BIOL 01104, BIOL 01106, and BIOL 01203) while introducing students to a variety of scientific skills covered in those courses. Examples of skills include critical thinking, experimental design, reading of primary literature, data collection, analysis, and interpretation, and oral and written scientific presentations. Credit will not be given for both Introduction to Cell Biology (BIOL 01203) and Biological Skills for Transfer Students (BIOL 01202).</p>		
BIOL 01203:	Introduction to Cell Biology	4 s.h.
<p><i>Prerequisites: BIOL 01106 with C- or better</i></p> <p>This laboratory course introduces students to the fundamentals of cell biology, including the cellular basis of life, cell evolution, cellular organization, cell metabolism, cell diversity, cell-cell communication, intracellular signaling and the cellular basis of disease.</p>		
BIOL 01599:	INDEP STUDY	1 to 3 s.h.

Course Descriptions

- BIOL 10210:** Human Anatomy and Physiology I 4 s.h.
This course offers a molecular, cellular and systematic approach to the structure and function of the component units and organizational systems of humans. Emphasis is placed on cells, tissues, membrane physiology and the skeletal, muscular and nervous systems.
- BIOL 10212:** Human Anatomy and Physiology II 4 s.h.
This laboratory course focuses on the gross and microscopic structure of the body. The course is the second semester of a two-semester sequence that covers all of the functional systems of the human organism. In this course, the systems of the body to be studied in detail include the endocrine, cardiovascular, respiratory, excretory, digestive, and reproductive systems. Whole body metabolism and fluid balance will also be studied.
- BIOL 11330:** Microbiology 4 s.h.
Prerequisite(s): BIOL 01203 or MCB 01102 or BIOL 01211 with C- or better
This course deals with the morphology and physiology of unicellular organisms, with emphasis upon bacteria. It studies culture methods, growth parameters, isolation, identification and characterization, and metabolism of microorganisms in the laboratory.
- BIOL 14440:** Introduction to Biochemistry - Lecture Only 3 s.h.
Prerequisite(s): (BIOL 01203 or MCB 01102 or BIOL 01211 or BIOL 01202 with C- or better) and CHEM 07201 with D- or better
This course investigates chemical compounds and chemical reactions which are of paramount importance to the functioning of biological systems. It also examines the major metabolic pathways for energy production and biosynthesis.
- BIOL 14540:** Introduction to Biochemistry I 3 s.h.
Prerequisite(s): (BIOL 01203 or MCB 01102 or BIOL 01211 or BIOL 01202 with C- or better) and CHEM 07201 with D- or better
This course is concerned with the chemical compounds and chemical reactions which are of paramount importance to the functioning of biological systems. The major metabolic pathways for energy production and biosynthesis are examined. The requirements include a research paper or individual project. Admission to the course is at the discretion of the Graduate Advisor. This course may not be offered annually.
- BIOL 22335:** Advanced Genetics 4 s.h.
Prerequisite(s): BIOL 01203 or MCB 01102 or BIOL 01211 or BIOL 01202 with C- or better
The course will provide an in-depth background in all areas of Mendelian, molecular, population and evolutionary genetics. The students will learn how to use genetic tools in dissecting complex biological pathways, developmental processes and regulatory systems. Discussion of landmark genetic experiments will constitute the basis of an inquiry-based approach that will delineate the dynamic nature of modern genetics. The laboratory exercises are designed to put special emphasis on molecular biology techniques and the use of bioinformatics.
- BIOL 27503:** Concepts of Comparative Embryology 4 s.h.
This graduate laboratory course focuses on the morphological and physiologic processes involved in embryogenesis of animals. The course includes the development of echinoderms, amphibians, birds, and mammals. Considerable emphasis will be placed on organogenesis and the development of organ systems.
- BME 11590:** Advanced Emerging Topics in Biomedical Engineering 1 to 4 s.h.
This course provides timely coverage of specific advanced topics in Biomedical Engineering, and it is intended for graduate students. Special topics courses may be traditional classroom-based courses as well as research-related courses supervised by specific advisors. This class may be taken multiple times when offered with a different special topics content.
- BME 11600:** Graduate Seminar in Biomedical Engineering Topics 0 to 1 s.h.
The students will study current research topics and skills relevant to Biomedical Engineering.
- BME 11602:** Writing and Winning Grant Proposals in the Biomedical Field 2 s.h.
The students will learn aspects of writing in the biomedical field related to academic and industry career topics with a focus on grant proposal preparation.
- BME 11610:** Special Topics for Doctoral Students in Biomedical Engineering 3 s.h.
The students will study advanced level topics in Biomedical Engineering.

PMED 01210: Intro to Public Health 3 s.h.

Prerequisites: Admission to Advanced Premedical Studies Post-Baccalaureate Program at Cooper Medical School of Rowan University

PMED 01.210 Introduction to Public Health (3 Credits) (Pre-requisites: Admission to Advanced Premedical Studies Post-baccalaureate Program at Cooper Medical School of Rowan University) This course introduces many fields within the public health system, and the work in measuring health, disease and illness. It offers learners an understanding of population health through multiple disciplines like: epidemiology, biostatistics, environmental and occupational health, social and behavioral health, health policy and management. Students analyze contemporary public health issues such as threats to the nation's food industry, health promoting behaviors related to disease prevention, the burden and distribution of infectious diseases in our nation and globally, public health's role in disaster preparedness and management, and bioterrorism. Students explore the role of law and government (local, state, national, and international) in public health and challenging public health policy issues related to spiraling healthcare costs and addressing the aging population. Students examine environmental and occupational health issues and the impact of future challenges in public health. In many ways, the course will be critical to the student's career in medicine. A firm foundation in the basic science of health and disease processes will ensure that the student is able to apply these principles to their clinical performance as medical students and as practicing physicians. It will be a hybrid course with online lectures and the use of clinical case studies in an active learning environment.

PMED 01220: Applied Medical Ethics 3 s.h.

Prerequisite: Admission to Advanced Premedical Studies Post-Baccalaureate Program

This is the second humanities course in the postbaccalaureate program. This course provides an overview of current approaches to resolving ethical issues facing clinicians in private office and hospital practices and academic medical settings. This course will serve to enhance the professional development of premedical students as well as provide the academic framework needed for medical school preparation. This course will serve as a valuable resource for students interested in pursuing a career in biomedical sciences. This course is a hybrid course with online content enhanced through and the integration of case studies in active learning environment sessions.

PMED 01310: Medical Biochemistry, A Clinical Approach 3 s.h.

Prerequisite: Admission to Advanced Premedical Studies Post-Baccalaureate Program

PMED 01.310 Medical Biochemistry, a clinical approach (3 credits) (Prerequisites: Admission to Advanced Premedical Studies Post-Baccalaureate Program at Cooper Medical School of Rowan University) Course Description: Biochemistry is the study of the myriad of chemical processes that occur within living organisms. This course will introduce the major macromolecules of life, including nucleic acids, proteins, carbohydrates and lipids, as interacting partners that provide structure and function to cells. The course will provide the student with a rigorous foundation for application of metabolic principles to other course selections in the Post-Bac program and will be critical to the student's performance in the first and second years of medical school. A firm foundation in the basic science of health and disease processes at the biochemical level will ensure that the student is able to apply these principles to their clinical performance as medical students and as practicing physicians. It will be a hybrid course with online lectures and the use of clinical case studies in an active learning environment. Upon completion of the course, it is expected that students will understand the basic structure and function of the major cellular macromolecules and the processes in which they participate, as well as an understanding of the types of diseases that may develop when cellular chemical processes go awry.

PMED 01320: Cellular Basis of Molecular & Regenerative Medicine 3 s.h.

Prerequisites: PMED 01.310 and Admission to Advanced Premedical Studies Post-Baccalaureate Program

PMED 01.320 Cellular Basis of Molecular and Regenerative Medicine (3 Credits) (Pre-requisites: Medical Biochemistry, a clinical approach PMED 01.310 and Admission to Advanced Premedical Studies Post-Baccalaureate Program at Cooper Medical School of Rowan University) Course Description: This course involves the study of the individual eukaryotic cell and tissues and will begin with an introduction to cell theory. Topics that will be discussed are: the structure and functions of the plasma membrane, nucleus, mitochondria, lysosomes, endoplasmic reticulum and the golgi apparatus. The course will then progress to provide the student with a strong understanding of the fundamental concepts of regenerative medicine and stem cell biology and their potential to alter current medical treatment. It will be a hybrid course with online lectures and the use of clinical case studies in an active learning environment. The students will acquire a rigorous foundation for application of cell biology and physiology principles to other course selections in the Post-Bac program which will be critical to the student's performance in the first and second years of medical school. A firm foundation in the basic science of health and disease processes at the cellular level including regenerative medicine will ensure that the student is able to apply these principles to their clinical performance as medical students and as practicing physicians. This course will also serve as a valuable resource for students interested in pursuing a career in biomedical sciences. : Medical Biochemistry, a clinical approach PMED 01.310 and Admission to Advanced Premedical Studies Post-baccalaureate Program at Cooper Medical School of Rowan University) Course Description: This course involves the study of the individual eukaryotic cell and tissues and will begin with an introduction to cell theory. Topics that will be discussed are: the structure and functions of the plasma membrane, nucleus, mitochondria, lysosomes, endoplasmic reticulum and the golgi apparatus. The course will then progress to provide the student with a strong understanding of the fundamental concepts of regenerative medicine and stem cell biology and their potential to alter current medical treatment. It will be a hybrid course with online lectures and the use of clinical case studies in an active learning environment. The students will acquire a rigorous foundation for application of cell biology and physiology principles to other course selections in the Post-Bac program which will be critical to the student's performance in the first and second years of medical school. A firm foundation in the basic science of health and

Course Descriptions

disease processes at the cellular level including regenerative medicine will ensure that the student is able to apply these principles to their clinical performance as medical students and as practicing physicians. This course will also serve as a valuable resource for students interested in pursuing a career in biomedical sciences.

PMED 01410: Medical Genetics 3 s.h.

Prerequisites: PMED 01.310 Admission to Advanced Premedical Studies Post-Baccalaureate Program at Cooper Medical School of Rowan University

PMED 01.410. Medical Genetics (3 Credits) {Pre-requisites: Medical Biochemistry, a clinical approach PMED 01.310 and Admission to Advanced Premedical Studies Post-Baccalaureate Program at Cooper Medical School of Rowan University}

Course Description: Over the last several years, there has been a massive increase in our understanding of the human genome and the implication of genetic changes as they relate to not only genetic disorders but also to cancer and even our responses to pharmacological agents. These advances have ushered in a new age of personalized medicine where it is no longer good enough to diagnose a patient's disorder, but it is now sometimes necessary to identify the nuances of a patient's genetic make-up using molecular diagnostic techniques in order to better tailor therapy. Because medical genetics and molecular diagnostics are quickly becoming an essential part of medical care in many medical fields, it is imperative that students who wish to pursue careers in the biomedical sciences also receive an adequate familiarity with these fields. This course is designed to provide an overview of human genetic concepts and clinical disorders that have a genetic component and will be a hybrid course with online lectures and the use of clinical case studies in an active learning environment. After completing this course, students will have an understanding of the general principles of human genetics and its relevance to modern clinical medicine.

PMED 01420: Human Physiology 3 s.h.

(Prerequisites: Medical Biochemistry, a clinical approach PMED 01.310 and Admission to Advanced Premedical Studies Post-Baccalaureate Program at Cooper Medical School of Rowan University)

PMED 01.420 Human Physiology (3 Credits) (Prerequisites: Medical Biochemistry, a clinical approach PMED 01.310 and Admission to Advanced Premedical Studies Post-Baccalaureate Program at Cooper Medical School of Rowan University)

This course will provide a comprehensive overview of human physiology at the molecular, cellular and systems levels. The curriculum will begin with studies of basic cell physiology and extend through complete organ systems. Topics will include basic membrane biology, muscle contraction, cardiovascular, respiratory, renal, gastrointestinal, endocrine, and peripheral nervous systems. The activities of these organ systems are highly integrated and coordinated activity is essential for maintaining a constant physiological environment. Homeostatic mechanisms that regulate these multi organs systems and compensate for perturbations of baseline physiology will be discussed. An important component of this curriculum will be to describe the physiology changes encountered in routine clinical medicine and disease states. Therapeutic treatment options for conditions will be discussed. This curriculum is designed to meet the needs of students interested in pursuing a career in medicine or the biomedical sciences.

PMED 01430: Medical Microbiology 3 s.h.

Prerequisites: Medical Biochemistry, a clinical approach PMED 01.310 and Admission to Advanced Premedical Studies Post-Bac Program at Cooper Medical School of Rowan University

PMED 01.430 Medical Microbiology (3 Credits) (Prerequisites: Medical Biochemistry, a clinical approach PMED 01.310 and Admission to Advanced Premedical Studies Post-Baccalaureate Program at Cooper Medical School of Rowan University)

This course introduces basic concepts of general microbiology and host-microbe interactions. The course will begin with a discussion of the structure, metabolism, genetics, growth and control of bacteria and fungi; the structure and mechanisms of replication of bacteriophages and animal viruses; the mechanism of defenses of vertebrates against infectious diseases; the mechanism of transmission of microbes; the strategies for detection of microbes and viruses in clinical specimens; the mechanism of action of antibiotics and antiviral and current and experimental vaccines against infectious diseases. It will be a hybrid course with online lectures and it will use clinical case studies in an active learning environment to increase student's critical thinking skills in medical microbiology. Upon completion of this course the students will have a comprehensive overview and high level of understanding of the diversity of human pathogens, the different types of diagnosis available, their different mechanisms inducing pathogenesis, epidemiology and therapeutic and prevention strategies against infectious diseases.

PMED 01440: Mechanisms of Disease 3 s.h.

Prerequisites: Admission to the Advanced Premedical Studies Post-Baccalaureate Program and PMED 01310

PMED 01.440. Mechanisms of Disease (3 Credits) {Prerequisites: Medical Biochemistry, a clinical approach PMED 01.310 and Admission to Advanced Premedical Studies Post-Baccalaureate Program at Cooper Medical School of Rowan University}

Course Description: Pathology literally translated means the "study of suffering", but in commonplace usage refers to the study of diseases affecting the human body. As such, Mechanisms of Disease will be a natural continuation of previous courses and will focus on basic pathophysiologic processes that underlie human disease. The course will begin with a discussion of adaptive cellular responses to stress and progress to cell injury and cell death. Specific disease mechanisms or processes that will be considered include: tissue inflammatory and repair responses, immune dysfunction, neoplasia, developmental and genetic disorders, hemodynamic derangements, and environmental and nutritional pathology. The course will provide the student with an understanding of basic disease mechanisms that will enhance their performance in the first and second years of medical school. A firm foundation general Pathology is essential for medical students and practicing physicians. The course will utilize a hybrid model with online lectures and the use of clinical case studies in an

active learning environment. Upon completion of the course, it is expected that students will have developed a foundation that can then be further advanced and applied to specific diseases involving the various organ system of the body

CHE 06502: Special Topics in Chemical Engineering 3 to 6 s.h.
This course presents chemical engineering topics related to recent developments in industrial practice or research. May be repeated.

CHE 06506: Process Heat Transfer 3 s.h.
Application of heat transfer to the process industries. Mechanisms of heat transfer; conduction, convection and radiation; Selection and design of heat exchanging equipment, e.g., double-pipe, shell and tube, plate and frame, extended fin heat exchangers. Design parameters for heat transfer with phase change.

CHE 06508: Membrane Process Technology 3 s.h.
Principles of membrane processes: reverse osmosis, ultrafiltration, microfiltration, electrodialysis, pervaporation, gas permeation, and their application to traditional and emerging fields. Membrane materials and structure. Mass transfer and design aspects for both liquid and gas separation systems.

CHE 06510: Biochemical Engineering 3 s.h.
The fundamentals and engineering of bioprocess engineering with emphasis on applying biotechnology to industrial processes. Essential aspects of biochemistry, microbiology and kinetics. Discussion of bioreactor engineering, and recovery and purification processes. Processing applications of engineering kinetics and enzyme technology. Laboratory experiments and demonstrations will be integrated throughout the course.

CHE 06512: Safety in the Process Industries 3 s.h.
This course presents the basic principles, guidelines, and calculations necessary for the safe design and operation of chemical plants and related manufacturing facilities. Topics include: toxics and human exposure, fires and explosions, vessel relief systems, hazard identification and risk assessment, source and dispersion models. Accident investigation is discussed along with a review of actual case histories.

CHE 06514: Transport Phenomena for Engineers 3 s.h.
This course will present the analogies among heat, mass, and momentum transfer. Governing differential equations and their uses in steady-state and unsteady-state systems will be described. Applications will be discussed for mass transfer coupled with heat transfer and/or chemical reaction. Numerical methods and computer applications will be integrated throughout the course.

CHE 06515: Advanced Reactor Design 3 s.h.
Overview of chemical reaction types and ideal reactors. Catalysis and catalytic reactors; analogies for real reactors; fluid flow and heat and mass transfer effects on chemical reactions and reactor design; numerical analyses and simulation of reacting systems; applications in the chemical industry.

CHE 06516: Advanced Separation Process Technology 3 s.h.
This course describes advanced separation processes such as: crystallization and precipitation; adsorption, chromatography and ion exchange; reverse osmosis, ultrafiltration, gas permeation and pervaporation. Commercial system design parameters and laboratory demonstrations will be included. An overview of other novel separation processes will be done.

CHE 06518: Polymer Engineering 3 s.h.
This course provides an introduction to the various aspects of polymer engineering starting with basic polymer properties, structure and function. The major topics covered are the formation of polymer systems and manufacturing techniques. Fabrication processes topics include coating, extrusion and foams. The production of thin-films and membranes will focus on stretching, phase inversion, and hollow fiber spinning. Students will study application of polymeric materials engineering to various industries.

CHE 06520: Green Engineering Design in the Chemical Industry 3 s.h.
This course evaluates process design techniques to minimize waste and by-products in the processing and manufacturing industries. Topics include: mass and heat recycling processes; technologies for process steam renovation, material reuse and recycling methods. Case studies of industrial applications are utilized.

CHE 06528: Fluid Flow Applications in Processing and Manufacturing 3 s.h.
This course will cover the foundation principles of applied fluid mechanics with an emphasis on industrial applications. Topics in mixing, multi-phase fluid flow and processing, and fluidization will be covered. Key technologies from chemical, civil, and mechanical engineering applications will be used to illustrate concepts. The course will provide a strong background in the application of fluid mechanics principles to industrial processing and manufacturing operations.

Course Descriptions

- CHE 06530: Experimental Methods in Chemical Engineering 3 s.h.
Prerequisite(s): Graduate Standing & Approval of Graduate Advisor
Hands-on experience with experimental techniques and computer aided methods for materials characterization and solutions to contemporary research problems in Chemical Engineering as well as in a variety of other engineering disciplines. Modular course including experimentations such as, but not limited to, TGA, DSC, DMA, and Rheology and computer-aided software packages such as ASPEN, GAMS, COMSOL, MATLAB and ImageJ.
- CHE 06568: Electrochemical Engineering 3 s.h.
This course will focus on the fundamental principles of process electrochemistry. Basic principles of thermodynamics, kinetics and mass transfer as applied to electrochemical systems will be presented. Modeling of electrochemical systems and application of electrochemical principles to corroding systems will be conducted by the students. Engineering case studies of commercial applications in energy conversion and storage and electrolytic processes will be presented.
- CHE 06570: Air Pollution Control 3 s.h.
This course introduces students to air pollution control theory. Students design air pollution control processes and specify equipment related to the control of particulate, gaseous, and toxic air emissions. The chemistry required for pollution control process design is presented. The environmental impacts due both to controlling and not controlling emissions are considered. Students design control equipment, specify and troubleshoot control systems and predict the impacts for each major type of control system.
- CHE 06571: Biomedical Control Systems 3 s.h.
Prerequisite(s): Graduate standing and approval of Graduate Advisor
This course is an extension of Process Dynamics and Control focusing on the identification and study of biomedical control systems. Students will learn to identify components of physiological control systems and examine the origin of diseases at a systems level. Additional topics include the incorporation of artificial organs into existing physiological control systems, mathematical modeling of biological processes, designing therapeutic strategies, and integrating the results of primary literature into quantitative explanations of diseases.
- CHE 06572: Biomedical Process Engineering 3 s.h.
This course introduces students to applications of chemical engineering fundamentals to biomedical systems. Students analyze and design biomedical processes. The basic biochemistry and physiology required for understanding of biomedical systems are presented. Advanced principles of mass transfer, heat transfer, fluid flow and chemical reaction are used to analyze or design drug delivery systems, pharmacokinetic models, the circulatory system, transport across cell membranes, and human and artificial organs. Laboratory experiments and demonstrations will be integrated throughout the course.
- CHE 06573: Biomaterials Engineering 3 s.h.
The goal of studying biomaterials is to understand how the body's natural tissues are organized on a compositional, structural, and properties basis. We also seek to understand how the body recognizes and responds to foreign materials, and combine this knowledge in order to successfully design implants that can be used to treat debilitating diseases. The graduate level course emphasizes research literature, including landmark papers and emerging topics, and also includes additional advanced topics in biomaterial design.
- CHE 06574: Advances in Particle Technology 3 s.h.
This course introduces students to application of chemical engineering fundamentals in the particle processing industry. Processes involving particles are an important part of the chemical process industry. These processes range from fluidized catalytic cracking of oils to coating processes in the pharmaceutical industry. Students will use advanced principles in fluid flow, heat and mass transport, and kinetics to analyze and design particle manufacturing processes and chemical industry processes involving particles. Novel processes will also be discussed and analyzed.
- CHE 06575: Biopharmaceutical and Industrial Fluid Mixing 3 s.h.
Prerequisite(s): Graduate standing and approval of Graduate Advisor
Students in this course will demonstrate the importance mixing of both in biotechnology and the pharmaceutical industries. The design project in this class will include a product that requires multiple process steps involving multiple phases and complex liquids and chemical reactions. Students will apply single and multi-phase fluid dynamics to the design of an industrial process that includes equipment design. A major objective of the class is to develop equipment designs for the biotechnology and pharmaceutical industry.
- CHE 06576: Bioseparation Processes 3 s.h.
This course will focus on the fundamental principles of bioseparation processes. The characteristics of bioseparations will be presented as applied to downstream processing in the pharmaceutical/biotechnology and related industries. Theory and design of filtration, microfiltration, centrifugation, cell disruption, extraction, adsorption, chromatography, precipitation, ultrafiltration, crystallization, and drying will be presented as applied to biosystems. Commercial design considerations, such as sanitary design/sterilization, water quality, solvent recovery, waste disposal and biosafety, will be reviewed.

Course Descriptions

CHE 06577: Advanced Engineering Process Analysis and Experimental Design 3 s.h.

This course exposes students to advanced engineering applications of process analysis and experimental design. The course includes a multidisciplinary approach with theoretical background to support the course applications. Students will use advanced statistical and optimization techniques for process analysis and experimental design, process monitoring and quality control presently used in industry. The analysis and experimental design techniques presented in this course serve to optimize complex industrially relevant processes and make engineering design and calculations more effective. Applications from a wide range of industries will be presented including pharmaceutical, food, bulk and specialty chemicals, and petroleum industry applications.

CHE 06578: Tissue Engineering 3 s.h.

Prerequisite(s): Graduate standing and approval of Graduate Advisor

Tissue engineering is an expanding field that integrates principles of biology and engineering for the development of tissue substitutes and artificial organs. This course, which utilizes a combined lecture-laboratory approach, will review embryology, cell culture techniques, stem cell biology, cell signaling, cell development and differentiation, biocompatibility, tissue organization and function, biomaterial synthesis/characterization, and structure-function relationships in tissue engineering scaffolds.

CHE 06579: Industrial Process Pathways 3 s.h.

This course will study chemical reaction mechanisms that play crucial roles in the chemical industry. Fundamentals of reaction thermochemistry and reaction kinetics will be discussed. Students will learn to construct mechanistic models of complex, multi-reaction systems, and to apply these models to the solution of practical problems such as yield optimization.

CHE 06580: Optimization of Engineering Projects 3 s.h.

This course will overview strategies for planning and directing long-term engineering projects. Topics will include project organization, project scheduling, allocation of resources, project optimization and financial analyses.

CHE 06581: Advanced Process Analysis 3 s.h.

This course will examine advanced topics in process analysis including: process consistency, identification of optimal process based on economic analysis, process documentation including flowsheets and budgets, replacement analysis for processing equipment, and rationing limited resources between competing projects.

CHE 06582: Food Engineering Systems 3 s.h.

This course introduces students to the application of fundamental and advanced chemical engineering fundamentals applied to food processing systems. Students analyze and design food engineering processes. The basic and advanced chemistry and biochemistry required for an in-depth understanding of food systems is presented. Basic principles of mass transfer, heat transfer, fluid flow, chemical reaction, process control, and mixing are used to analyze or design food production systems. Computer simulations will be used for the design of food processing systems. Laboratory experiments and demonstrations will be integrated throughout the course.

CHE 06584: Controlled Release Theory, Technology And Applications 3 s.h.

Controlled release systems are designed to provide delivery of an agent at a pre-determined rate for an extended period of time. Controlled release offers several advantages over traditional methods of formulation and administration: maintenance of effective concentrations for a sustained period, less total agent required, cost effectiveness, convenience and compliance. This course investigates controlled release technologies through the application of chemical engineering principles. Knowledge of materials, mass transfer, heat transfer, fluid flow and chemical reactions are used to analyze and design controlled release systems. Applications to pharmaceutical, agricultural, and food industries will be explored. Laboratory experiments and demonstrations will be integrated throughout the course. A project will focus on the development of an original design and fabrication for a controlled release application.

CHE 06585: Engineering Quality Control 3 s.h.

This course exposes students to the state of the art process and product control techniques. This course includes a strong foundation in the fundamentals of engineering quality control and its relevance to process optimization. Students will learn the theory and practical applications of control charting techniques used in industry. Process capability analysis, controller design and control systems architecture will also be included. Students will also be exposed to experimental design and process optimization techniques. The relevance of engineering process control in the safety and profitability of processes and products will be emphasized. Concepts introduced throughout the course will be illustrated with practical examples from a wide range of industries.

Course Descriptions

- CHEM 06101: Chemistry II (Lecture And Lab) 4 s.h.
Prerequisites: CHEM 06100 or CHEM 06105
This course is a continuation of CHEM06.100. It covers these topics: equilibria, including acids and bases, complexes, and sparingly soluble compounds, thermodynamics, kinetics, electrochemistry, and solution theory. Descriptive inorganic chemistry is also covered.
- CHEM 06400: Advanced Inorganic Chemistry Lecture 3 s.h.
Prerequisite: CHEM 08400
This course covers concepts and models of inorganic chemistry. It encompasses molecular geometries and other physical and chemical properties on the basis of the several chemical bonding theories and with reference to the periodic table. Students study the chemistry of both main group and d-block transition elements.
- CHEM 06401: Advanced Inorganic Chemistry Laboratory 2 s.h.
Prerequisite: CHEM 06400 with concurrency allowed.
This course covers concepts and models of inorganic chemistry in the laboratory setting. Students study both main group and transition element chemistries. The laboratory component emphasizes the synthesis and characterization of inorganic compounds.
- CHEM 06500: Modern Inorganic Chemistry 3 s.h.
This course covers concepts and models of inorganic chemistry. It encompasses molecular geometries and other physical and chemical properties on the basis of the several chemical-bonding theories and with reference to the periodic table. Students study the chemistry of both main group and d-block transition elements.
- CHEM 06501: Modern Inorganic Chemistry Laboratory 2 s.h.
This course covers concepts and models of inorganic chemistry in the laboratory setting. Students study both main group and transition element chemistries. The laboratory component emphasizes the synthesis and characterization of inorganic compounds.
- CHEM 07200: Organic Chemistry I (Lecture And Lab) 4 s.h.
Prerequisites: CHEM 06101 or CHEM 06106
This course studies the chemistry of carbon compounds and their properties, structures and reactions. It emphasizes the study of the principle classes of aliphatic and aromatic compounds, which in conjunction with selected experiments, gives an understanding of the mechanisms of organic reactions. Required for science majors.
- CHEM 07201: Organic Chemistry II (Lecture And Lab) 4 s.h.
Prerequisites: CHEM 07200
This course is a continuation of CHEM07.200. Required for science majors.
- CHEM 07348: Biochemistry (Lecture And Lab) 4 s.h.
Prerequisites: (CHEM 07201 OR CHEM 07202 OR CHEM 07203) AND (MCB 01102 OR BIOL 01202 OR BIOL 01203)
This course deals with chemical compounds and reactions important to the functioning of biological systems and includes a discussion of the metabolic pathways for energy production and biosynthesis.
- CHEM 07512: Antibiotics 3 s.h.
Prerequisite: Matriculation in MS Pharmaceutical Sciences o Permission of Instructor
Antibiotics are broadly defined as agents that arrest or kill bacteria and serve a central role in modern medicine. Chemical compounds that exhibit antibiotic activity are wide ranging in chemical composition and biochemical mechanism of action. This course will provide an overview of this important class of biologically active molecules.
- CHEM 07531: Special Topics in Biochemistry 3 s.h.
This course covers special topics in individual areas of biochemistry. Specific prerequisites are determined by the nature of the course when it is announced.
- CHEM 07548: Biochemistry 4 s.h.
This course is concerned about Chemical compounds and chemical reactions which are of paramount importance to the functioning of biochemical systems. The major metabolic pathways for energy production and biosynthesis are examined. Laboratory experiments reinforce and expand the lecture material. The requirements of this course include a graduate laboratory project and/or research paper. Admission to the course will be at the discretion of the Graduate Advisor. This course is taught in the Chemistry and Biochemistry Department.

CHEM 07557: Chemical Biology 3 s.h.

The goal of this course is to describe how chemistry is applied to biochemical and biological systems to answer specific questions. It examines the use of small, synthetic molecules that are used as probes of biochemical function as well as how to design experiments using these molecules. The course also encompasses the use of purely synthetic compounds as functional or structural mimics of biological molecules. The methods and techniques used to measure designed interactions will also be discussed.

CHEM 07558: Advanced Biochemistry 4 s.h.

Prerequisites: Matriculation into MS Pharmaceutical Sciences or COGS in Industrial Chemistry or Permission of Instructor

This course provides an in-depth study of the principles involved in biological processes. It emphasizes the significance of biochemical reactions and regulations as well as mechanisms. A thorough elucidation of structure, function and mechanism will be presented. The overall strategy of living systems will be illustrated. Laboratory experiments will provide exposure to representative procedures and some important modern techniques. Students are encouraged to design their own molecular biology experiments using the facilities provided. A term project is incorporated into this course. Students are required to conduct an in-depth review of the literature regarding a topic.

CHEM 07560: Advanced Biochemistry Lecture 3 s.h.

This lecture course deals with complex biochemical processes involving the interaction of numerous classes of biomolecules. Specifically the course focuses on the interplay of proteins, lipids, carbohydrates, and nucleic acids in the cellular response and adaptation to the environment, both locally in the cell and of the organism as a whole. The course relies on both traditional descriptions of biochemical processes and the inclusion of primary literature sources to analyze experimental data, explain methodology, and introduce cutting edge concepts.

CHEM 07561: Advanced Biochemistry Laboratory 2 s.h.

Prerequisite: CHEM 07560 (may be taken concurrently)

This laboratory course deals with isolation and characterization of molecules from biochemical systems. The fundamentals and applications of chromatographic, electrophoretic, and spectroscopy techniques applied to biological molecules are taught through laboratory projects.

CHEM 07564: Advanced Organic Synthesis 3 s.h.

Prerequisite: Matriculation into MS Pharmaceutical Sciences or COGS in Industrial Chemistry or Permission of the Instructor

This course will provide an in-depth overview of several synthetically useful chemical methodologies, reagents, and reactions that are essential in synthesis of organic pharmaceuticals. Some of the general categories of reactions to be discussed in this course include reduction, oxidation, protecting groups, and carbon-carbon bond forming reactions. This course will survey a broad and diverse range of enantioselective, diastereoselective, chemoselective, and/or regioselective chemical transformations critical for the preparation of medicinal compounds. This course would suit the needs of graduate and senior undergraduate students who intend to pursue careers in the field of pharmaceutical sciences.

CHEM 07565: Organic Reactions And Mechanisms 3 s.h.

An advanced presentation of the major classes of organic chemical reactions, with the major emphasis being placed upon the detailed mechanisms of such reactions. Modern organic theory is included. The requirements of this course include a research paper or individual project. Admission to the course will be at the discretion of the graduate adviser. This course may not be offered annually.

CHEM 07567: Advanced Organic Preparations (Lecture & Lab) 3 s.h.

This is a laboratory course that provides an in-depth study of the procedures and key organic transformations that can be applied to the pharmaceutical and fine chemical industry. Major topics of discussion include the preparation of densely functionalized organic compounds that are used as pharmaceutical scaffolds.

CHEM 07568: Medicinal Chemistry 3 s.h.

This course describes various topics related to the biochemical principles and metabolic pathways with particular emphasis on pharmaceutical applications and biotechnology. This course will focus on the molecular mechanisms of drug action and chemical basis for drug therapy. Current methods used to study medicinal chemistry including recombinant DNA, combinatorial chemistry and bioinformatics, will be reviewed. A 3-D molecular modeling of drug targets and drug design will be integrated throughout the course. Clinical trials of drug case study are included. A term project is incorporated into this course. Students are required to conduct an in-depth review of the literature regarding a topic.

CHEM 07570: Organic Spectroscopy 3 s.h.

This is a laboratory course with class discussion on the separation and identification of organic compounds. Both classical and instrumental techniques are used in compound structure determination. Lecture emphasis is placed on interpreting IR, NMR, and mass spectra. The requirements of this course include a graduate laboratory project and/or research paper. Admission to the course will be at the discretion of the graduate adviser. This course may not be offered annually.

Course Descriptions

CHEM 07572: Advanced Organometallic Chemistry 3 s.h.
Prerequisite: Matriculation into MS Pharmaceutical Sciences or COGS in Industrial Chemistry or Permission of the Instructor

This course covers the chemistry of organometallic compounds and their applications in organic synthesis, and pharmaceutical industry. Some of the topics discussed in this course include the study of physical and chemical properties, characterization, analysis, and preparation of organometallic compounds, along with advanced organometallic reaction mechanisms such as substitution, addition, elimination, and insertion, etc. The course is designed for pharmaceutical sciences students and includes submission of a written report on original research literature in organometallic chemistry.

CHEM 07575: Polymer Chemistry 3 s.h.

This course presents a comprehensive overview of polymer chemistry. The subject matter, by its nature, crosses multiple specializations within the field of chemistry. The structure, properties and synthesis of polymeric materials are covered in accordance with the recommendations of the joint polymer education committee of the American Chemical Society.

CHEM 07590: General Aspects of Pharmacology 3 s.h.

Prerequisite: Matriculation into MS Pharmaceutical Sciences or COGS in Industrial Chemistry or Permission of the Instructor

This course attempts to provide an understanding of the basic principles and mechanism in pharmacology. Some of the topics discussed include pharmacodynamics and pharmacokinetics of drugs, and their interactions with the living tissues. It also provides a fundamental knowledge about the mechanism of action, structure-activity relationships, and interaction of therapeutics with physiological system and metabolism of drugs.

CHEM 07592: Advanced Pharmaceutical Chemistry 3 s.h.

Prerequisite: Matriculation into MS Pharmaceutical Sciences or COGS in Industrial Chemistry or Permission of the Instructor

This course covers the structure, properties, preparation, and analysis of organic and inorganic pharmaceutical drugs. Some of the topics that will be discussed include pharmacognosy, organic and inorganic pharmaceuticals, solubility characteristics and properties of these compounds under biological conditions, etc. The course is designed for pharmaceutical sciences students and includes submissions of a written report on original research literature in pharmaceutical chemistry.

CHEM 07593: Regulatory Affairs 3 s.h.

Prerequisite: Matriculation in MS Pharmaceutical Sciences or COGS in Industrial Chemistry or Permission of Instructor

This course will provide an overview of the regulations associated with the commercial development of pharmaceutical drugs or medical devices. The course would be useful for students in MS Pharmaceutical Sciences and COGS in Industrial Chemistry.

CHEM 07594: Good Laboratory Practice (GLP)/Good Manufacturing Practice (GMP) Techniques 3 s.h.

CHEM 08400: Physical Chemistry I (Lecture) 3 s.h.

Prerequisite(s): (CHEM 07201 or CHEM 07202) and (MATH 01131 or MATH 01141) and (PHYS 02201 or PHYS 00222 or PHYS 02203 or PHYS 00211 or CHE 06302 or CHEM 07203)

This course deals with the problems of the fundamental principles underlying physical chemistry. It gives major emphasis to thermodynamics, kinetics and quantum mechanics. It also includes spectroscopy, group theory and statistical mechanics. MATH 01230 recommended.

CHEM 08401: Physical Chemistry II (Lecture) 3 s.h.

Prerequisite: CHEM 08400

This is a continuation of CHEM 08400.

CHEM 08505: Advanced Biophysical Chemistry 3 s.h.

Prerequisite: Matriculation into MS Pharmaceutical Sciences or COGS in Industrial Chemistry or Permission of the Instructor

This is a graduate-level Biophysical Chemistry course, which focuses on applications of physical chemistry concepts and methods to biological systems. Topics cover the basic concepts of thermodynamics, reactions kinetics and spectroscopy, etc. Additionally, various specific biophysical chemistry topics and experimental techniques are to be discussed. The course will equip students with a strong theoretical background to understand advanced topics covered in other courses. Students will be additionally required to complete an independent literature report as directed by the instructor.

CHEM 08510: Advanced Survey of Molecular Modeling Methods 3 s.h.

Prerequisite: Matriculation into MS Pharmaceutical Sciences or COGS in Industrial Chemistry or Permission of the Instructor

This survey course emphasizes the applications of molecular modeling theory and simulations in chemistry and biochemistry. The course will present to students a broad and in-depth knowledge of different modeling concepts and methodologies, and provide students opportunities to apply modern computational software to investigate molecular structures, chemical reactions, and biomolecular processes such as enzyme catalysis and protein conformational changes, etc. The topics will include quantum chemistry calculations, molecular mechanics, molecular dynamics simulations, in silico drug design, etc. This course is ideal for Chemistry, Biochemistry, Bioinformatics, and Pharmaceutical Science students.

Course Descriptions

CHEM 09250: Quantitative Analysis (Lecture And Lab) 4 s.h.
Prerequisite: CHEM 06101 or CHEM 06106

This course provides lecture and laboratory experience in classical methods of gravimetric and volumetric analyses as well as electrical and spectroscopic analyses.

CHEM 09510: Instrumental Analysis 4 s.h.
Prerequisite: Matriculation into MS Pharmaceutical Sciences or COGS in Industrial Chemistry or Permission of the Instructor

The theoretical basis, construction, and data interpretation of most instruments used by chemist are studied. Among the instruments considered are visible, UV, IR, NMR, AA, fluorescence, flame emission, and mass spectrometers. Electroanalytical, potentiometric, conductometric, electrogravimetric, and voltametric methods of analysis are used. Laboratory experiments allow "hands-on" use of representative instruments. The requirements of this course include a graduate laboratory project. Admission to the course will be at the discretion of the graduate adviser. This course may not be offered annually.

CHEM 09520: Advanced Supramolecular Chemistry 3 s.h.
Prerequisite: Matriculation into MS Pharmaceutical Sciences or COGS in Industrial Chemistry or Permission of the Instructor

The course is about concepts, structures, functions, and applications of supramolecular molecular systems. The supramolecular systems discussed in this course include surface assembled monolayer and multilayers, L-B films, host-guest molecular recognition systems, liquid crystals, and nanoclusters. Application of supramolecular chemistry includes clinic diagnostics, drug design and drug delivery, biomimic, and nanofabrication.

CHEM 09522: Advanced Bioanalytical Chemistry 3 s.h.
Prerequisite: Matriculation into MS Pharmaceutical Sciences or COGS in Industrial Chemistry or Permission of the Instructor

This course will focus on the details of analysis of biomolecules using a variety of analytical techniques including liquid chromatography, electrophoresis and capillary electrophoresis. A thorough discussion of mass spectrometry technique, as applied to biomolecules, will be conducted. This course will also introduce students to different DNA analysis techniques and electrochemical biosensors in biology and medicine. This also includes the analytical centrifugation methods as used in determination of molecular weight of biomolecules. This course prepares students for graduate school, careers in pharmacy, medical, and forensic among others.

CHEM 09592: Pharmaceutical Techniques I 3 s.h.
Prerequisite: Matriculation into MS Pharmaceutical Sciences or COGS in Industrial Chemistry or Permission of the Instructor

This course is intended to provide dedicated training for students in the design of research projects and their implementation in a laboratory setting. The course will offer students the opportunity to focus on the preliminary aspects of research design and implementation in one or more sub-disciplines of chemistry relating to the pharmaceutical sciences. Students will be expected to (a) retrieve, understand and evaluate prior contributions in the identified area of study and (b) design and implement hypoyjesis-driven studies within this area of study.

CHEM 09593: Pharmaceutical Techniques II 3 s.h.
Prerequisite: Matriculation into MS Pharmaceutical Sciences or COGS in Industrial Chemistry or Permission of the Instructor

This course is intended to provide dedicated training for students in the chemical, biochemical and computational analysis of the chemical entities with relevance to the pharmaceutical sciences via spectroscopic and other characterization techniques. The course will offer students the opportunity to focus on the preliminary aspects of research design and implementation in one or more sub-disciplines of chemistry relating to the pharmaceutical sciences. Students will be expected to (a) understand, evaluate and discuss scientific information from the primary literature and (b) design and implement research or computational experiments and (c) analyze project outcomes and research data.

CHEM 09594: Pharmaceutical Techniques III 3 s.h.
Prerequisite: Matriculation into MS Pharmaceutical Sciences or COGS in Industrial Chemistry or Permission of the Instructor

This course is intended to provide dedicated training for students in the development of professional, environmental and ethical best practices in the context of pharmaceutical research. The course will offer students the opportunity to focus on managing professional, environmental and ethical challenges in one or more sub-disciplines of chemistry relating to the pharmaceutical sciences. Students will be expected to retrieve, understand and evaluate prior examples of professional, environmental and/or ethical challenges the indentified area of study.

CHEM 09596: MS Thesis Research I 3 s.h.
Prerequisite: Matriculation into MS Pharmaceutical Sciences or COGS in Industrial Chemistry or Permission of the Instructor

This course provides individual laboratory research exploration of a topic beyond the scope of the existing courses. The research performed would be instructor/advisor specific and is based on the current research being performed in the department. The students would be expected to (a) conduct basic and applied research in pharmaceutical sciences, (b) retrieve and review research literature, (c) provide periodic updates and project reports, and (d) write manuscripts for publication in scientific journals or presentations at conferences and meetings.

Course Descriptions

CHEM 09597: MS Thesis Research II 3 s.h.
Prerequisite: CHEM 09596

This is a continuation course for MS Thesis Research I. The students in this course would either expand upon existing research projects from their earlier course, or start newer research projects, which will be determined on an individual case by case basis. The students would be expected to (a) conduct basic and applied research in pharmaceutical sciences, (b) retrieve and review research literature, (c) provide periodic updates and scientific project reports, and (d) write manuscripts for publication in journals or scientific presentations at conferences and meetings.

CHEM 09598: MS Thesis Research III 3 s.h.
Prerequisite: CHEM 09597

This is a continuation course for MS Thesis Research II. The students in this course would either expand upon existing research projects from their earlier course, or start newer research projects, which will be determined on an individual case by case basis. The students would be expected to (a) conduct basic and applied research in pharmaceutical sciences, (b) retrieve and review research literature, (c) provide periodic updates and scientific project reports, and (d) write manuscripts for publication in journals or scientific presentations at conferences and meetings.

CHEM 09599: MS Thesis Research IV 3 s.h.
Prerequisite: CHEM 09598

This is a continuation course for MS Thesis Research III. The students in this course would either expand upon existing research projects from their earlier course, or start newer research projects, which will be determined on an individual case by case basis. The students would be expected to (a) conduct basic and applied research in pharmaceutical sciences, (b) retrieve and review research literature, (c) provide periodic updates and scientific project reports, and (d) write manuscripts for publication in journals or scientific presentations at conferences and meetings.

CHEM 09600: MS Thesis Research V 3 s.h.
Prerequisite(s): CHEM 09599. Permission of instructor required.

This is a continuation course for MS Thesis Research IV. The students in this course would either expand upon existing research projects from their earlier course, or start newer research projects, which will be determined on an individual case by case basis. The students would be expected to (a) conduct basic and applied research in pharmaceutical sciences, (b) retrieve and review research literature, (c) provide periodic updates and scientific project reports, and (d) write manuscripts for publication in journals or scientific presentations at conferences and meetings.

CEE 08503: Special Topics Civil Engineering 1 to 6 s.h.
Civil engineering topics related to recent developments in industrial practice or engineering research. May be repeated.

CEE 08504: Engineering Estimating 3 s.h.
The course deals with the development of engineering estimates for civil engineering projects and project components including labor, materials and equipment. Total project costs including direct and indirect costs, field and home-office costs, and contingency are covered. Also covered are the various types of civil engineering estimates including piles and cofferdams, wellpoints and earthdrilling, water and sewer systems, road and highway pavements, concrete buildings and bridges, and steel buildings and bridges. The course includes appropriate computer applications.

CEE 08507: Prestressed Concrete 3 s.h.

CEE 08512: Advanced Environmental Treatment Process Principles 3 s.h.
Topics in Fundamentals of Physicochemical Processes in Environmental Engineering such as Adsorption, Coagulation/Flocculation, Filtration, Sedimentation, Disinfection, Ion Exchange, Chemical Oxidation, Corrosion and Membranes.

CEE 08513: Environmental Management 3 s.h.
This course deals with integrated environmental management issues and methodologies with a global perspective. Topics include environmental decision-making from a socio-economic and environmental standpoint, environmental data collection, analysis, and management techniques for environmental assessment and feasibility case studies. The course is intended to give students an understanding of current environmental issues and tools for analysis of data for environmental management. The issues are examined from the worldwide perspectives of science, engineering, business and society. The course will culminate in an original research project and presentation.

CEE 08522: Site Remediation Engineering 3 s.h.
Topics in site remediation engineering, including site characterization, site safety, modeling site conditions, conducting feasibility studies, and designing remediation systems, such as pump and treat, stabilization, containment, treatment walls, natural attenuation, enhanced bioremediation, phytoremediation, oxidation, soil flushing, and soil vapor extraction.

Course Descriptions

- CEE 08531: Solid and Hazardous Waste Management 3 s.h.
The course deals with solid and hazardous waste sources, regulations and management; engineering principles, treatment and disposal methods; design of landfills; recycling; toxicology principles; and risk assessment. The course includes appropriate laboratory experiments and computer applications.
- CEE 08532: Pollutant Fate and Transport 3 s.h.
Topics include Characteristics and Properties of Organic Pollutants, Aquatic Chemistry, Transport Mechanisms for Pollutants (Adsorption, Retardation, Attenuation, Volatilization, Biodegradation), Groundwater (Properties, Flow Equations, Transport in Porous Media) and Mathematical Modeling.
- CEE 08533: Integrated Solid Waste Management 3 s.h.
The course deals with the theories and principles of integrated solid waste management as applied to real-world analysis and design problems. The course covers the design of facilities and programs, such as landfills, composting facilities, transfer stations, collection programs, and drop-off centers, and planning of integrated systems for municipalities and counties. Computer applications are included.
- CEE 08541: Advanced Surface Hydrology 3 s.h.
This course is to increase knowledge on the application of advanced hydrologic methods to water resources problems. Specifics include the use of probabilistic techniques to characterize hydrologic processes. Such analyses are characterized by data collection, analysis and interpretation, simulation, and forecasting. The level of understanding should, upon completion of the course, be sufficient to understand and appreciate the important issues in the current literature where statistical and optimization methods are used in prediction and interpretation of hydrologic processes. Synergy between hydrological processes and environmental quality, hydrometeorology, global warming, informatics, and ecology and conservation will be discussed.
- CEE 08542: Advanced Hydrometeorology 3 s.h.
This course introduces advanced topics in hydrometeorology to the students and latest technologies used by water resources engineers for understanding, modeling and simulating the global water issues. This course will investigate the relationship between hydrology and meteorology and focus on key processes including precipitation, stream and ground water flow, flooding, water chemistry and contamination, and water resource management. A large component of the course will include collecting and analyzing data, estimating stream flow, and using spreadsheet and graphic programs to monitor water levels following precipitation events. Students in the class will use state of the art software to analyze the collected datasets. Topics included in this course are intended for students engaged in environmental and water resources engineering. The course is designed for students that are familiar with key concepts from courses in mathematics, hydrology, and water monitoring.
- CEE 08543: Advanced Water Resources Engineering 3 s.h.
This course covers advanced topics in water resources engineering including the analysis and design of advanced hydraulic structures, hydraulic similitude and modeling, wave action, and advanced hydrology.
- CEE 08544: Hydraulic Design 3 s.h.
The course focuses on the design and analysis of structures for controlling and conveying water in both the built and natural environment. Topics covered vary from year to year based upon instructor and student interests. Past topics have included open channel flow design, dams and spillways, sanitary and storm sewers, culverts, pumping stations, turbomachinery, and hydraulic similitude and modeling.
- CEE 08545: Water and Environmental Monitoring 3 s.h.
The course focuses on the engineering study of fluid flow in the environment. Advanced topics in water resources engineering are explored, with content varying based upon instructor and student interests. Past topics have included open channel flow, hydrology, fish passage at hydraulic structures, sediment transport, mixing in natural water bodies, and water quality modeling.
- CEE 08546: River Engineering 3 s.h.
This course presents the theory and analytical techniques for the design and analysis of engineering projects that control or convey water in open channel systems. Topics include sediment transport, design of hydraulic structures, river restoration, and computer modeling. The course will culminate in an original research project and presentation.
- CEE 08547: Watershed Engineering 3 s.h.
This course presents the theory and analytical techniques for the design and analysis of stormwater management projects. Topics include environmental law, stormwater mitigation structures, rainfall-runoff analysis, limnology, and computer modeling. The course will culminate in an original research project and presentation.

- CEE 08548: Water and Environmental Monitoring 3 s.h.
Prerequisite: Graduate Standing or Instructor Permission
 Introduces the latest and techniques used by water resources and environmental engineers for mapping, modeling and monitoring. The applied goal of this class is to develop an understanding of water and environmental spaces and how maps represent them. This course will provide an overview of the application of advanced geographic information system, remote sensing and complex mapping in water resources and environmental engineering. Students will use satellite images to extract data and produce viable information. Students will become familiar with state of the art software in remote sensing and mapping.
- CEE 08552: Foundation Engineering 3 s.h.
 The fundamental theme of the course is the analysis and design of structural building and bridge foundations based on advanced principles of soil mechanics. These advanced principles of soil mechanics include compressibility, shear strength, and bearing capacity. The types of foundations analyzed and designed include spread footings and pile foundations. The course includes appropriate computer applications.
- CEE 08553: Earth Retaining Systems 3 s.h.
 The fundamental theme of the course is earth retaining systems including advanced principles of soil mechanics and analysis and design of earth retaining systems. The advanced principles of soil mechanics include lateral soil pressure and slope stability. The analysis and design of earth retaining systems includes slopes, embankments, retaining walls and other systems. The course includes appropriate laboratory experiments and computer applications.
- CEE 08562: Advanced Transportation Engineering 3 s.h.
 The fundamental theme of the course is the study of advanced topics in transportation engineering including advanced highway engineering and advanced mass transit systems. These advanced topics include the impact and interaction of sociological, economic, geographic and environmental factors on transportation systems. The course includes appropriate field measurements and computer applications.
- CEE 08564: Advanced Design of Elements of Transportation Engineering 3 s.h.
 The fundamental theme of the course is the study of advanced topics in highway design and analysis, signalized and un-signalized intersection design, forecast travel demand modeling and transportation planning. Topics covered vary from year to year based upon instructor and student interests. This course also includes field measurements and computer applications.
- CEE 08565: Advanced Pavement Analysis and Evaluation 3 s.h.
Prerequisite(s): CEE 08361
 The fundamental theme of the course is the engineering study of pavement response. The topics covered include non-linear behavior of pavement materials and interaction between tires and pavements. Modeling and analysis of pavement behavior will also be taught, with content varying based upon instructor and student interests. The course includes field experiments and computer applications.
- CEE 08566: Transportation Systems Modeling 3 s.h.
Prerequisite: Graduate Standing or permission of the instructor
 Introduces latest technologies and techniques used by transportation planners and engineers to study current travel characteristics and estimate future travel demand and supply. This course focuses on urban travel characteristics and activity analysis, travel demand and supply analysis, transportation system and project evaluation, and program and project implementation strategies. The course will (1) introduce concepts, procedures and methods associated with transportation planning; (2) provide basic knowledge of travel demand forecasting models; and (3) provide basic knowledge of relevant travel demand modeling software. The proposed course is designed for both undergraduate and graduate students who want to develop their career in transportation engineering and planning. Students in this class will deliver research papers/reports beyond those expected for students in CEE 08466, Introduction to Urban Transportation Planning.
- CEE 08568: Intelligent Transportation System 3 s.h.
 The course will focus on systems engineering & Intelligent Transportation System (ITS) fundamentals and design of regional ITS fundamentals. The course will introduce selected tools required to plan, design, implement and evaluate ITS projects. Students will work on projects that require data collection, simulation and analysis using various tools. The course is designed to investigate multidisciplinary aspects of ITS design and plan solutions for current and future transportation system.

Course Descriptions

CEE 08675: Fracture Mechanics 3 s.h.

This course covers the behavior of cracks in bodies, and has a wide range of applications. Discussion focuses on the treatment of the singular stress and strain fields that occur near crack tips, with particular emphasis on fracture mechanics parameters such as K, G and J. Course material will include both elastic and plastic behavior. Both approximate and exact approaches will be considered. Numerical and analytical solutions and solution techniques will be presented. This course might not be offered annually.

CM 01301: Fundamentals of the Construction Industry I 3 s.h.

Corequisite: CM 01302

This course provides a general overview of the planning, administration, management, and cost of construction projects and an introduction to the methodology used in executing specific designs. Emphasis is placed on the organization of construction firms, use and types of primary construction equipment, estimating and quantity take-offs, contractual and management systems, scheduling, project administration, and inspection of construction operations.

CM 01302: Fundamentals of the Construction Industry II 3 s.h.

Prerequisite/Corequisite: CM 01301 (may be taken concurrently)

This course introduces the design process and development of construction documents. It covers the standard design phases: programming, conceptual design, schematic design, design development, construction documents and construction administration, and the format and utilization of project manuals including contract specifications, the interpretation and analysis of engineering plans and specifications, and the new technologies being used in the design including Building Information Modeling (BIM) and sustainable (green) practices. The course also explores the various common project delivery methods.

CM 01303: Project Building Systems 3 s.h.

Prerequisites: CM 01301, CM 01302

Students will learn the description and identification of the equipment and materials used in mechanical systems for heating, ventilating and air conditioning, electrical, plumbing, fire protection, piping, gas, lighting, water and waste water, conveyance, life safety systems, environmental, security, audio/visual, and building system controls. The course also provides and introduction to building structural and envelopes systems.

CM 01304: Project Administration 3 s.h.

Prerequisite: CM 01304 (Fundamentals of the Construction Industry II).

This course provides exposure to and use of various types of projects control systems for project efficiency and documentation. Students will learn how the submittal process operates and is monitored. They will also be shown a variety of tools used in tracking project documentation, and essential elements related to contract law and administration.

CM 01305: CONSTRUCTION COST ESTIMATING 3 s.h.

Prerequisite: CM 01302 (Fundamentals of the Construction Industry II)

Introduction to various costs of construction including direct and indirect project costs, comparison of hard and soft costs, job cost analysis and forecasting of cost to completion, labor, material and equipment expenses, cash flow, overhead, profitability, and general conditions costs. Students will learn research techniques used to create accurate estimating and bidding procedures.

CM 01306: Construction Project Planning and Scheduling 3 s.h.

Prerequisites: CM 01301, CM 01302

Students will learn procedures used in project planning and scheduling that employ float methods of scheduling logic. They will examine the critical path series of activities of project completion, including the use of computer software applications for problem solving, and related tools, spreadsheets, and information management. Also covered are work breakdown structures, activity durations, status reports, resource allocation, re-planning, monitoring, and updating of projects. Students will develop projects site logistics plans.

CM 01407: Advanced Leadership and Communication 3 s.h.

Prerequisite: CM 01302 (Fundamentals of the Construction Industry II)

The course is designed to teach students to become more effective leaders and communicators in the construction industry. Drawing on various case studies, students will examine ethical practices in the industry. They will define and role-play effective communications strategies that simulate situations they may encounter within the industry such as general-to-subcontractor, corporate, and labor relations. Students in this course will also examine principles of negotiation and dispute resolution in the construction industry.

CM 01408: Industrial Relations in the Construction Industry 3 s.h.
Prerequisite: CM 01302 (*Fundamentals of the Construction Industry II*).

This course examines various perspectives (union, management, government) on the collective bargaining system in place in the construction industry. Topics include the legal and regulatory environment, problem solving, and the roles of labor and corporations.

CM 01409: Building Energy Systems for Construction Managers 3 s.h.
Prerequisite: CM 01302

The Building Energy Systems for Construction Managers course provides a conceptual understanding of functions and performances of energy systems including mechanical, electrical, electronic, and plumbing and transport systems in residential and commercial buildings. The course also provides information on integration between energy systems and other building components. While introducing the concepts of alternative energy sources, energy efficiency, structural implications of mechanical systems, indoor air quality, and environmental control strategies, the course familiarizes students with more recent and current efforts in sustainability and green building ideas. The course also introduces codes and standards relevant to energy devices used in building construction, such as National Fire Protection Association (NFPA), American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE), and National Electrical Code (NEC).

CM 01410: BUILD CONSTRUCTION SYS & CODES 3 s.h.
Prerequisite: CM 01302 (*Fundamentals of the Construction Industry II*).

This course provides a conceptual understanding of functions and performance of structural building systems. The primary purpose of this course is to provide familiarity with use of construction code with reference to International Building Codes (IBC) 2012. For anyone in the field of construction or construction management it is necessary to know about the concepts and fundamental aspects of the code. As a result, the course is intended to provide an understanding of how the code was developed, how it is to be interpreted, and how it is applied to design and construction of buildings, the goal of the course is to make implementation of the code easier, and clearer to understand. Other than discussions on structural elements and their construction methods, the course covers issues such as use and occupancy, types of construction, fire-resistive constructions, interior finishes, building material, inspections, and tests.

CM 01411: Construction Safety and Loss Prevention 3 s.h.
Prerequisite: CM 01302 (*Fundamentals of the Construction Industry II*).

This course offers a practical guide for eliminating safety and health hazards from construction worksites. The Handbook of OSHA Construction Safety and Health addressed the occupational safety and health issues faced by those working in the construction industry. The course covers a vast range of issues including program development, safety and health program implementation, intervention, and prevention of construction incidents, regulatory hazards faced by those working in the construction industry and sources of information. The course also features updates for construction regulations, construction job audit, training requirements, and OSHA regulations. It includes new record keeping guidelines and forms with additional material on focused inspections. Containing updated contact information for the newest agencies, the course also presents a model safety and health program, examples of accident analysis and prevention approaches.

CM 01412: Capstone Project - WI 3 s.h.
Prerequisite(s): CM 01303 and CM 01304 and CM 01305 and CM 01306 and CM 01408 and CM 01409 and CM 01410 and CM 01411;
Corequisite: CM 01407 (*may be taken concurrently*)

In the course, students will build on what they have learned in the major, integrating the theory and knowledge that they gained in class with practical experience in the construction industry. Capstone projects are developed through a series of project meetings between the student and program faculty, with significant written deliverables.

EM 01501: Engineering Economics 3 s.h.

This course covers a variety of topics in engineering economics including the following: making economics decisions, equivalence and the time value of money, spreadsheets and economic analysis, present worth and equivalent annual worth, internal rate of return, benefit/cost ratios and breakeven analysis, replacement analysis, depreciation and income taxes, inflation, value engineering, and decision-making tools.

EM 01511: Strategic Risk Management 3 s.h.

This course deals with a range of topics related to risk management including the following: risk terminology, tools for quantitative analysis of environmental and technological risks, social risk issues, risk in modern life, statistical analysis, data presentation, dose-response models for carcinogens, model limitations, models of risk aversion, psychological and community perceptions of risk, risk communication, environmental and health risk issues in the media, and case studies of accidents and incidents.

EM 01512: Quality In Engineering Management 3 s.h.

This course covers a range of topics related to quality in engineering management including the following: concepts and philosophy of engineering quality management, leading engineers, data analysis, engineering quality assurance and results, engineering quality methods and tools, continuous process improvement, total quality management within engineering, six-sigma, quality costs, customer satisfaction in relation to engineering design and quality, vendor relationships and quality, benchmarking engineering practices and products, statistical process control, quality function development, and case studies of quality in engineering management.

EM 01513: Engineering Decision Making 3 s.h.

This course covers the following topics related to engineering decision making: mathematical decision tree equations, mathematical programming for optimization of engineering problems, the theory behind methods and models, advanced statistical models for engineering analysis, advanced linear and non-linear models for engineering analysis, practical applications of decision methods and models to engineering problems, and identifying and balancing risk associated with technology development. Case studies dealing with real engineering projects and problems are included.

EM 01521: Construction Management 3 s.h.

This course covers the following topics related to construction management: project managers, developers, designers, contractors, and subcontractors; project startup, construction, and closeout; project financing; control of costs and schedule; construction contract types, bidding, delivery methods, and changes; bonds and insurance; inspection of work; claims, disputes, and arbitration; and case studies in construction management.

EM 01522: Construction Scheduling 3 s.h.

This course deals with the following topics in construction scheduling: scheduling terminology and history; time and duration of activities; relationships between project activities; critical path method (CPM); program evaluation and review technique (PERT); delays and other constraints; schedule development, analysis, and updating; and case studies of project construction schedules.

EM 01523: Cost Engineering 3 s.h.

This course covers a wide variety of topics related to cost engineering including the following: measuring work progress using costs, manhours, and schedule; earned value; cost and schedule performance; productivity; quantity adjusted budgets; budget and schedule baselines; control account baselines; cost control versus financial control; analysis, trending, and forecasting; cost and schedule performance curves; index and other tracking; elements of complete cost; and case studies in cost engineering.

EM 01541: Engineering Law And Ethics 3 s.h.

This course introduces students to law and ethics as it applies to engineering and engineering management. Topics covered in the area of law include the following: legal responsibilities of owners, designers, and contractors: risk management via insurance, surety bonds, and contracts; legal implications of the common activities of design professionals; liens; expert testimony; and patent law. Topics covered in the area of ethics include the following: ethical codes of professionals; derivation of ethical structures; and the role of the engineer in assuring public safety, health, and welfare. Case studies dealing with law and ethics are included.

EM 01542: Facilities Management 3 s.h.

Prerequisite: Enrollment in Master of Engineering Management Program or Master of Science in Engineering Management Program

The topics covered in this course include the general characteristics and types of facilities: management functions within a facility and their differences compared with general management; inventory, procurement, operations, and real estate management; maintenance management and planning, preventive and schedule maintenance, and contract management; energy management and energy devices, electricity, lighting, water, heating, HVAC, and efficient and intelligent buildings; safety and environmental management, OSHA, RCRA, air quality, clean air act, and other EPA requirements; emission control and fleet management; and transport equipment, elevators, escalators, moving walkways, and device operation and maintenance. In this course, all aspects of managerial and planning concepts are covered, as well as maintenance and engineering knowhow that are relevant to and needed for the study of facilities management.

EM 01543: Systems for Engineering Management 3 s.h.

Prerequisite: Enrollment in Master of Engineering Management Program or Master of Science in Engineering Management Program

This course teaches engineering management students the art of systems engineering. Engineering management students will learn systems engineering processes and skills to integrate user needs, manage requirements, conduct technological evaluation, and build elaborate system architectures. Engineering management students will also learn to assess risk and establish financial and schedule constraints. The course devotes particular attention to knowledge, skills, mindset, and leadership qualities needed for an engineering manager to operate effectively in the area of systems engineering.

ENGR 01469: Introduction to Connected Vehicle Technology 3 s.h.

Connected Vehicle Technology (CVT) has potential to transform the existing surface transportation system into next generation sustainable transportation system by improving safety, operational efficiency, and reducing environmental impacts. The success of connected mobility relies on efficient integration of traffic flow principles, advanced sensors, computing tools & electronics, communications technologies, and management strategies. However, the transportation professionals will be required to master complexity of connected mobility systems and its components to evaluate, operate, and maintain future surface transportation systems. This course will introduce characteristics of the future mobility systems and overview of planning, designing, deploying and operating of future connected mobility systems. The course is designed for students that are familiar with intelligent transportation system.

ENGR 01569: Connected Vehicle Technology 3 s.h.

This course will introduce characteristics of the future mobility systems and overview of planning, designing, deploying and operating of future connected mobility systems. The advanced multidisciplinary topics include wireless communication technologies, transportation data analytics and traffic simulation. Students will utilize advanced tools to plan and design connected vehicle technology applications. The course is designed for students that are familiar with intelligent transportation system.

ENGR 01580: Advanced Viscoelasticity 3 s.h.

This course covers the fundamentals of linear and non-linear viscoelastic behavior of materials: constitutive modeling, experimental development of material properties, and solution of classic problems. Non-linear viscoelasticity and the effect of temperature on non-linear viscoelastic properties are presented. Standard experimental methods to characterize determine viscoelastic properties are discussed. Classic solutions, and the use of time-temperature superposition of solutions, are presented. In addition, the doctoral students will conduct testing and analysis of viscoelastic material to validate existing viscoelastic models. This course might not be offered annually.

STEM 01540: STEM: Automotive & Robotics for Middle School Teachers 1.5 s.h.

Prerequisites: completed Bachelor's degree in any of the sciences, math, elementary education, secondary education or engineering.

Currently teaching high school level science/ math /technology (or hired to teach in the fall term) in a school using the PL TW curriculum.

This course uses solid modeling to introduce students to the design process. Utilizing this design approach, students understand how solid modeling has influenced their lives. Students also learn sketching techniques, and use descriptive geometry as a component of design, measurement, and computer modeling. Using design briefs or abstracts, students create models and documentation to solve problems. This course is a credit-bearing companion to the Project Lead the Way (PL TW) non-credit training in Design and Modeling for teachers. Teachers interested in enrolling in this class must be currently enrolled in the PLTW course. Faculty Workload Hours: TBD This course will be taught by adjuncts selected from a pool of Project Lead the Way master teachers at the mutual agreement of Rowan and PL TW at a rate established nationally by PLTW and its University Affiliates Info for Registrar only. Faculty Load Hours does not appear in the catalogue)

STEM 01541: STEM: Design & Solid Modeling Middle School 1.5 s.h.

Prerequisites: completed Bachelor's degree in any of the sciences, math, elementary education, secondary education or engineering.

Currently teaching high school level science/ math /technology (or hired to teach in the fall term) in a school using the PL TW curriculum.

This course uses solid modeling to introduce students to the design process. Utilizing this design approach, students understand how solid modeling has influenced their lives. Students also learn sketching techniques, and use descriptive geometry as a component of design, measurement, and computer modeling. Using design briefs or abstracts, students create models and documentation to solve problems. This course is a credit-bearing companion to the Project Lead the Way (PL TW) non-credit training in Design and Modeling for teachers. Teachers interested in enrolling in this class must be currently enrolled in the PLTW course. Faculty Workload Hours: TBD This course will be taught by adjuncts selected from a pool of Project Lead the Way master teachers at the mutual agreement of Rowan and PL TW at a rate established nationally by PLTW and its University Affiliates Info for Registrar only.

STEM 01550: STEM: Engineering Designs & Solid Modeling 3 s.h.

Prerequisites: completed Bachelor's degree in any of the sciences, math, elementary education, secondary education or engineering.

Currently teaching high school level science/ math /technology (or hired to teach in the fall term) in a school using the PL TW curriculum.

This course introduces content that high school teachers would find appropriate for 9th or 10 th grade students who are interested in design and engineering. The major focus of the course is to expose students to design process, research and analysis, teamwork, communication methods, global and human impacts, engineering standards, and technical documentation. The course applies and concurrently develops secondary level knowledge and skills in mathematics, science, and technology. The course of study includes: Design Process; Modeling; Sketching; Measurement; Statistics; Applied Geometry; Presentation Design and Delivery; Engineering Drawing Standards; CAD Solid Modeling; and Reverse Engineering. This course is a credit-bearing companion to the Project Lead the Way (PLTW) non-credit training called Introduction to Engineering Design for teachers. Teachers interested in enrolling in this class must be currently enrolled in the PL TW course.

Course Descriptions

STEM 01551: Principles of Engineering for High School Teachers 3 s.h.

Prerequisites: completed Bachelor's degree in any of the sciences, math, elementary education, secondary education or engineering. Currently teaching high school level science/ math /technology (or hired to teach in the fall term) in a school using the PL TW curriculum.

This course is a credit-bearing companion to the Project Lead the Way (PLTW) non-credit training called Principles of Engineering. Teachers interested in enrolling in this class must be currently enrolled in the PL TW course. Faculty Workload Hours: TBD This course will be taught by adjuncts selected from a pool of Project Lead the Way master teachers at the mutual agreement of Rowan and PL TW at a rate established nationally by PL TW and its University Affiliates.

STEM 01552: STEM: Digital Electronics for High School Teachers 3 s.h.

Prerequisites: completed Bachelor's degree in any of the sciences, math, elementary education, secondary education or engineering. Currently teaching high school level science/ math /technology (or hired to teach in the fall term) in a school using the PL TW curriculum.

Digital Electronics for High School Teachers is the study of electronic circuits that are used to process and control digital signals. The major focus of this course is to expose students to the process of combinational and sequential logic design, teamwork, communication methods, engineering standards, and technical documentation. Utilizing the activity-project-problem-based (APPB) teaching and learning pedagogy, students will analyze, design and build digital electronic circuits. This course introduces educators to content that is appropriate for 10th or 11th grade students interested in electronics. This course assumes no previous electronics knowledge however proficiency in college preparatory math is needed. This course is a credit-bearing companion to the Project Lead the Way (PLTW) non-credit training in Digital Electronics for teachers. Teachers interested in enrolling in this class must be currently enrolled in the PLTW course.

STEM 01553: STEM: Civil Engineering and Architecture for High School Teachers 3 s.h.

Prerequisites: completed Bachelor's degree in any of the sciences, math, elementary education, secondary education or engineering. Currently teaching high school level science/ math /technology (or hired to teach in the fall term) in a school using the PL TW curriculum.

Currently teaching high school level science/ math /technology (or hired to teach in the fall term) in a school using the PL TW curriculum. The major focus of this course is a long term project that involves the development of a local property site. As students learn about various aspects of civil engineering and architecture, they apply what they learn to the design and development of this property. The course of study includes the roles of civil engineers and architects, project planning, site planning, building design, and project documentation and presentation. This course is a credit-bearing companion to the Project Lead the Way (PLTW) non-credit training in Civil Engineering and Architecture for teachers. Teachers interested in enrolling in this class must be currently enrolled in the PL TW course.

CEE 08563: Advanced Pavement Analysis And Evaluation 3 s.h.

The fundamental theme of the course is the engineering study of pavement response. The topics covered include non-linear behavior of pavement materials and interaction between tires and pavements. Modeling and analysis of pavement behavior will also be taught, with content varying based upon instructor and student interests. The course includes field experiments and computer applications.

CMS 04208: Business and Professional Communication 3 s.h.

Prerequisite: CMS 04205

This course offers a unique emphasis on communication in the workplace. Techniques for negotiating communication in today's ever-changing business world will be focused on, with attention to business communication concepts. These concepts range from management and leadership models to ethics in message communication. Significant attention to various aspects of business presentations and interviewing strategies help to prepare students for success regardless of their past experience.

CMS 04210: Mass Media And Their Influences 3 s.h.

Prerequisites: ENGL 05105 or COMP 01112 or ENGR 01201 or permission of instructor

This course studies the impact on our daily lives of television, radio, films, magazines and newspapers. Students examine how the media influence politics, purchases, and entertainment, and how the media affect the culture in shaping beliefs and attitudes. It discusses how each of the media operates and what each accomplishes. This course examines the gap between real life and "mediated" reality.

CMS 04215: Fiction To Film 3 s.h.

Prerequisite: 30 credits required

This course provides comparative study of film and literature. Students learn the critical vocabulary of literature and film and enhance their understanding of both art forms. The course covers American and foreign works.

Course Descriptions

- CMS 04220: Interpersonal Communication 3 s.h.
Students explore the basic theories and concepts of interpersonal communication research. Some areas to be covered include perception and social cognition, the relationship of culture to interpersonal communication, self-perception and communication, interpersonal systems, sex/gender and interpersonal communication, and interpersonal communication contexts (i.e., family, friendship, romance).
- CMS 04225: Semantics 3 s.h.
Prerequisites: 30 credits required
This course makes students aware of the relationship between language and human behavior and of the use and abuse of verbal and non-verbal language. It emphasizes meaning, the classification and abstraction processes and the application of semantic principles to the language of literature, politics, advertising and prejudice.
- CMS 04250: Communication Theory 3 s.h.
Prerequisites: COMP 01112 or ENGR 01201 or permission of instructor
This sophomore-level course acquaints students with current theories as they apply to a variety of communication environments. Drawing upon a wealth of timely research, students study theories relating to interpersonal, small group, organizational, public and mass communication. The course presents theories through readings as well as extensive class discussion.
- CMS 04260: Organizational Communication Theory And Research 3 s.h.
Prerequisites: Comp 01112 or ENGR 01201
Organizational Communication theory and research introduces students to the basics of organizational communication. The class will focus on how scholars and researchers study and understand the communication patterns and relationships that go on in organizations. Students will be asked to consider a variety of perspectives and theories of organizational communication while comparing them to each other and to their own experiences as organizational actors.
- CMS 04290: Rhetorical Theory 3 s.h.
Prerequisites: COMP 01112 or ENGR 01201
Rhetorical Theory introduces students to the concept of rhetoric and how it has been theorized from antiquity to the present. The course provides students with a systematic history of rhetorical theory and spotlights significant theorists such as Plato, Aristotle, Cicero, Blair and Burke. Students will explore how both ancient and contemporary theories of rhetoric apply to contemporary society.
- CMS 04315: Participatory Media 3 s.h.
Prerequisites: COMP 01112
This course examines the social, economic and political implications of the use of participatory media, which enable audience participation in the production of mediated messages. Students taking this course will study network theory, the historical roots of the participatory culture, collective action and social networking, convergence, and the changing modes of media production. Students will also study legal and social justice issues related to these evolving trends in media use.
- CMS 04318: Leadership Communication 3 s.h.
This course surveys theories of leadership communication and looks at leaders from different fields, including business, political, social, religious, and cultural, analyzing their ethical communication, and their vision and transformational influence. The course provides a basic introduction to leadership by focusing on the social construction of leaders and followers. The course will examine topics such as: the nature of leadership, theories of communication and leadership, communication ethics in leadership, creating a vision, communication leadership globally, and leadership for the greater good. The course will combine the theory and practice of leadership communication by having an applied component, such as case study analyses of “real world” leaders, and personal reflection of students’ leadership communication skills. Attention will be given to helping students to understand and improve their own leadership performance.
- CMS 04325: Linguistics 3 s.h.
Students study the nature of human language by examining four major components: phonology, semantics, syntax, and morphology. Linguistics principally emphasizes linguistic universals, characteristics which all human languages share. Students discuss dialect formation, first-language acquisition in children, and animal communication systems. Students also compare modern linguistic theories.
- CMS 04575: Advanced Special Topics In Communication Studies 3 s.h.
Advanced Special Topics in Communication Studies allows students the opportunity to study a specific area of the field of communication studies with great depth. Course topics change as new trends develop and as student interest necessitates scheduling. Topics are selected on the basis of timeliness and the availability of expert staff. General topics are announced as the course is scheduled. Permission of instructor is required for undergraduate enrollment so that adequate preparation for course topic can be ascertained. This course is not offered annually.

Course Descriptions

CS 01102: Introduction To Programming 3 s.h.
This course acquaints students with the logical structure of a computer, the algorithmic formulation of problems, and a modern high-level programming language. Extensive programming experience is included in the course. Proficiency equivalent to Basic Algebra II (MATH01.195) is expected for this course.

CS 01104: Introduction To Scientific Programming 3 s.h.
This course emphasizes algorithmic solutions of problems. The syntax of the programming language is also studied, as well as the writing of structured code. Proficiency equivalent to Basic Algebra II.

CS 01105: Web Literacy 3 s.h.
This is an introductory course on the world wide web, exposing how it works, and showing students how to use it appropriately. This course teaches students to create and modify basic web pages with markup languages and style directives, and how to embed non-text information such as video, images, and sound. The principles of publishing websites on the Internet and the process by which a page is delivered to end users will also be covered.

CS 01210: Introduction To Computer Networks And Data Communications 3 s.h.
This course examines the basics of data communication and computer networks and covers such topics as IT system components, layered network architectures, introduction to internetworking, the Internet, IP protocols, basics of TCP and UDP transmission protocols, standard network applications and basics of network security, network utility software, network traffic analysis, network mapping techniques, and configuring local area networks in a popular operating system.

CS 01211: Principles Of Information Security 3 s.h.
Students will be exposed to the spectrum of security activities, methods, technologies, and threats. This course will cover a range of key topics in the area of information and computer security including inspection and protection of information assets, detection of and reaction to security threats, taxonomy of security threats, and concentrating on issues in computer and operating systems security, principles of network security, and basics of cryptography.

CS 01501: Essentials of Computer Science 3 s.h.
Prerequisite(s): None
In this course the students will be exposed to a broad-scope review of essential topics in the area of computer science. The students learn main principles of programming and software development, key data structures and algorithms and will be exposed to selected topics in such areas of computer science as theory of computation, formal methods, artificial intelligence, databases and data management, computer architecture, operating systems, data communications, and others.

CS 01541: Bioinformatics - Advanced Computational Aspects 3 s.h.
Prerequisite(s): graduate student status
This course introduces the advanced student to the computer hardware, software, algorithms and statistical packages that are used in computational aspects of bioinformatics. Hardware topics include multiprocessor clusters, high performance computing, and parallelism. Software topics include message passing and shared memory styles of parallel/concurrent programming languages, databases, available software packages, and visualization techniques for large data sets. Algorithms and statistical packages include those for the study of molecular biology, evolution, structural biology, and biological networks. Students will design and carry out an independent research project using and developing appropriate bioinformatics algorithms, software and/or hardware. Undergraduate preparation in Calculus, Statistics (preferably Biostatistics), and Introduction to Computer Programming is strongly suggested.

CS 02505: Data Mining I 3 s.h.
This is a first graduate level course in Data Mining, which is designed to teach students the key steps in data mining, along with the primary algorithms related to data acquisition, cleansing, and supervised and unsupervised learning.

CS 02520: Data Warehousing 3 s.h.
This course is designed to teach students data modeling, enterprise data integration, and other issues related to managing massive data sets necessary for data mining for business intelligence. The course focuses on data warehousing and cloud storage, with an emphasis on modeling and architectures, and their application to decision support.

CS 02605: Data Mining II 3 s.h.
Prerequisite: CS 02505 minimum Grade of D-
This course follows Data Mining I which is designed to train students in the necessary algorithms for extracting intelligence from large datasets. In Data Mining II, more advanced topics are covered including advanced clustering techniques, Principal Component Analysis, Naïve Bayes clustering and other techniques.

Course Descriptions

- CS 03505: Data Quality and Web Text Mining 3 s.h.
This course studies data quality problems and solutions in the context of text and web mining, which is the exploration of vast amounts of digitized text for use in knowledge discovery or more particularly drug discovery in the biomedical field.
- CS 04103: Computer Science And Programming 4 s.h.
This course emphasizes programming methodology, algorithms and simple data structures. A programming language rich enough to allow easy implementation of data structures is studied. Prior programming experience in any programming language is expected for this course.
- CS 04110: Introduction To Programming Using Robots 3 s.h.
This course teaches fundamental programming skills centered in the context of robot programming. Students will program small robots to perform a variety of tasks. In addition to learning a sophisticated programming language, students will gain skills in design techniques and experience working in teams to build complex systems.
- CS 04113: Introduction To Object Oriented Programming 4 s.h.
Prerequisite: MATH 01122 or MATH 01130
This course introduces the fundamental concepts of programming from an object-oriented perspective. Topics are drawn from classes and objects, abstraction, encapsulation, data types, calling methods and passing parameters decisions, loops, arrays and collections, documentation, testing and debugging, exceptions, design issues, inheritance and polymorphic variables and methods. The course emphasizes modern software engineering and design. Students are expected to be sufficiently proficient in mathematics such that they are ready to take Calculus I (MATH 01130).
- CS 04114: Object Oriented Programming And Data Abstraction 2 s.h.
Prerequisites: CS 04113 or (CS 04103 and CS 04112)
Objects and data abstraction continues from Introduction to Object-Oriented Programming to the methodology of programming from an object-oriented perspective. Through the study of object design, this course introduces software engineering and focuses on file I/O, function prototypes, exception handling, decoupling strategies, and other advanced topics.
- CS 04171: Creating Android Applications 3 s.h.
Prerequisite(s): None
This course is designed for students who want to start developing mobile applications on Android platforms and understand the basic concepts of Computer Science. The course will start with the basics of Android programming by covering the most recent version of Android and understanding its development framework. Students will then learn to develop feature-rich Android applications using the MIT App Inventor Integrated Development Environment and learn the basic "Big Ideas" of Computer Science such as, algorithmic thinking, abstractions, logic, flow control, and data representation, storage and manipulation.
- CS 04222: Data Structures And Algorithms 4 s.h.
Prerequisite(s): CS 04.114 (C- or better) and MATH 03.160 or MATH 03.150; Corequisite: CS 01205
This course features programs of realistic complexity. The programs utilize data structures (string, lists, graphs, stacks, trees) and algorithms (searching, sorting, etc.) for manipulating these data structures. The course emphasizes interactive design and includes the use of microcomputer systems and direct access data files.
- CS 04225: Principles of Data Structures 3 s.h.
Prerequisites: (CS 04103) or (CS 04113).
The course features programs of realistic complexity. The programs utilize data structures (strings, lists, graphs, stacks) and algorithms (searching, sorting, etc.) for manipulating these data structures. The course emphasizes interactive design and includes the use of microcomputer systems and direct access data files.
- CS 04315: Programming Languages 3 s.h.
Prerequisites: (CS 04222 or CS 04225) and (CS 06205 or ECE 09241)
A study of the fundamental principles underlying the design of programming languages. Students will study two or more languages from contrasting programming paradigms such as Functional, Object-Oriented, Logical, or Concurrent.
- CS 04390: Operating Systems 3 s.h.
Prerequisites: CS 04222 and CS 06205
The course concentrates on the design and functions of the operating systems of multi-user computers. Its topics include time sharing methods of memory allocation and protection, files, CPU scheduling, input-output management, interrupt handling, deadlocking and recovery and design principles. The course discusses one or more operating systems for small computers, such as UNIX.

Course Descriptions

- CS 04400: Computer Science - Senior Project 3 s.h.
Prerequisite(s): CS 01205 and CS 07340 and CS 07321
This is an advanced programming course in which students work on large-scale individual or team programming projects and make a formal presentation on their work. The course discusses program development, methodologies and strategies.
- CS 04505: Advanced Web Programming 3 s.h.
Prerequisites: CS 04530 or CS 04430
This course teaches students to create and modify sophisticated data-driven web pages using client-server architecture. Topics covered include non-text information such as video, images, sound, custom web applications, asynchronous communication, accessibility, searching, security, and web server configuration.
- CS 04530: Advanced Database Systems: Theory And Programming 3 s.h.
This course focuses on the design of DBMS and their use to create databases. The course covers both the theoretical concepts and the implementation aspects of database systems with a special emphasis on relational database systems, SQL, programming (in a modern programming language such as C++ or Java) using a real database Application Programming Interface (such as JDBC or ODBC).
- CS 04548: Programming Languages: Theory, Implementation And Application 3 s.h.
An intermediate course intended to acquaint the student with the major categories of programming languages and to familiarize the student with one or two languages in each category. The student will complete programming projects in the languages studied. In addition, the student will learn formal mechanisms for specifying the syntax and semantics of languages and techniques for implementing data and control structures.
- CS 04560: Design/Implement Operation Systems 3 s.h.
Design choices and implementation (algorithms and data structures) of the capabilities of a modern operating system, including processes, concurrency, multithreading, synchronization, multiprocessors, CPU scheduling, interrupt handling, deadlocks, memory management, secondary storage management, file systems, I/O, protection and security. Issues include simplicity, efficiency, abstraction, microkernel, monolithic, client-server, mechanism vs. policy, caching.
- CS 04563: Concurrent Programming - Theory and Practice 3 s.h.
Prerequisites: Graduate Standing or Permission of the Instructor.
This course covers the fundamental concepts of concurrent programming: processes, threads, context switching, atomic instructions/actions, shared data, race conditions, critical sections, mutual exclusion, synchronization, locks, barriers, semaphores, monitors, and rendezvous. Hardware platforms are discussed: shared-memory multiprocessors, multiple CPUs, multiple GPUs. Multithreaded programming languages are described.
- CS 04564: Compiler Design Theory 3 s.h.
Prerequisites: Acceptance into the Computer Science MS or BS/MS program
This course centers on the design and use of compilers, the sophisticated computer programs whose function is to translate high-level code to machine language. The following topics are covered: Compiler models, finite state machines, the lexical box, context free grammars, translation grammars, pushdown machines, the syntax box, and the code generator.
- CS 04565: System Programming 3 s.h.
This course covers the internal structures and algorithms of the system kernel of a modern operating system as well as the system call interface to the kernel. Students will gain hands-on experience in system level programming in a modern operating system environment. The emphasis will be on interprocess communications and concurrency. The concept of distributed and client/server computing will also be introduced.
- CS 04570: Advanced Object Oriented Design 3 s.h.
This course will introduce important concepts such as inheritance and polymorphism, which are crucial tools needed for crafting object-oriented solutions to real-world problems. Design patterns that commonly occur in design situations will be covered. A formal notation for describing and evaluating object-oriented designs such as the Unified Modeling Language (UML) will be taught. Students will apply the concepts to design and implement object oriented solutions to one or more reasonably sized real-world problems.
- CS 04571: Advanced Topics in Mobile Programming 3 s.h.
Prerequisite(s): CS 04422 and CS 04471
Students will explore advanced topics in mobile application development. This course explores mobile application genres and the various development tools, languages and environments which are used to create them. The subject starts by requiring students to investigate the mobile application landscape and study some general purpose software development issues and techniques. It then requires each student to choose one of three implementation platforms: iOS (for Apple iPhone), .NET (for Windows Phone 7) or Java (for Android) and to study application development for that platform, implementing a modest application as a core requirement of their study. The subject concludes by looking, in theory, at the different deployment and distribution mechanisms used by mobile application vendors.

- CS 06205: Computer Organization 3 s.h.
Prerequisite(s): Minimum Requirement C- for each of the following: (CS 04113 or CS 04103) and (MATH 03160 or MATH 03150) and Sophomore Standing
 This course provides an introduction to computer organization. Students are exposed to the register level architecture of a modern computer and its assembly language. The topics include machine level data representation, von Neumann architecture and instruction execution cycle, memory hierarchy, I/O and interrupts, instruction sets and types, addressing modes, instruction formats and translation.
- CS 06310: Principles Of Digital Computers 3 s.h.
Prerequisite: CS 06205
 This course provides an introduction to the fundamentals of computer hardware systems. The topics include digital logic, combinational circuits, sequential circuits, memory system structure, bus and interconnection structure, computer arithmetic and the ALU unit, I/O system structure, hardwired control unit, microprogrammed control unit, and alternative computer architectures. This course is not open to students who have taken CS06.370 Digital Design and Lab.
- CS 06311: Digital Computer Laboratory 1 s.h.
Corequisites: CS 06310 Prerequisites: CS 06205
 This lab course provides the student with hands-on experience in the design and implementation of digital components. State-of-the-art systems are used to design, test, and implement digital circuits: Combinational circuits, sequential circuits, registers, counters, datapath, arithmetic/logic units, control units, and CPU design. This course is taken concurrently with Principles of Digital Computers.
- CS 06505: Wireless Networks And Systems 3 s.h.
Prerequisites: Acceptance into the Computer Science MS or BS/MS program
 This course prepares students to understand wireless networks and systems, and the underlying communications technologies that make them possible. The course covers descriptive material on wireless communications technologies, and important deployed and proposed networks and systems. Wireless system performance and Quality of Service capabilities are addressed. Students will prepare and deliver technical presentations on state-of-the-art topics in wireless networks and systems.
- CS 06510: Computer Networks 3 s.h.
Prerequisites: Acceptance into the Computer Science MS or BS/MS program
 Students in this course study how computer networks work and why they have been designed as we know them. The course covers descriptive material on network architectures and protocols, as well as network performance evaluation and protocol implementation. The course topics include important examples of local, metropolitan and wide area networks; telephone, cellular and wireless networks; the Internet; network security; and design tradeoffs in network systems and their implementations.
- CS 06512: Network Security 3 s.h.
 This is a graduate level course that covers the fundamentals of network security and cryptology. The course will cover such topics as cryptographic systems necessary for security, public key infrastructure, principles of data integrity, authentication, and key management, Internet architecture and TCP/IP protocol suite, application layer security, secure sockets layer and transport layer security protocols, IPSec and distributed denial of service attacks. Students will prepare and deliver technical presentations on state-of-the-art research topics in network security.
- CS 06515: Embedded Systems Programming 3 s.h.
 Embedded software is used in almost every electronic device. This course deals with software issues that arise in embedded systems programming. Important concepts covered in this course will include device programming interfaces, device drivers, multi-tasking with real-time constraints, task synchronization, device testing and debugging, and embedded software development tools such as emulators and debuggers. These concepts will be applied to design and implement embedded software for one or more modest-sized embedded systems.
- CS 06520: Topics In Computer Architecture 3 s.h.
 Students in this course will study the various performance enhancement techniques and more advanced architectural features of modern computer systems. The topics include DMA, I/O processor, RAID, cache memory, virtual memory, pipelining, RISC, superscalar processors and various advanced parallel architectures such as array processors, vector processors, shared-memory multiprocessors, and message-passing multicomputers. Students will complete independent research projects that may include detailed examination of one or two contemporary computers.

Course Descriptions

- CS 07210: Foundations Of Computer Science 3 s.h.
Prerequisites: C- or better in (MATH 03160 or MATH 03150) and one of the following: CS 01102, CS 04103, CS 01104 or CS 04113
This course provides an introduction to the theoretical foundations of computer science, including finite automata, context-free grammars, Turing machines, and formal logic.
- CS 07321: Software Engineering I-Writing Intensive 4 s.h.
Prerequisites: (CS04.222 or CS 04.225) and (COMP 01.112 or ENGR 01.201) and (CMS 06.202 or ENGR 01.202)
An introduction to the discipline of Software Engineering. Students will explore the major phases of the Software Lifecycle, including analysis, specification, design, implementation, and testing. Techniques for creating documentation and using software development tools will be presented. Students will gain experience in these areas by working in teams to develop a software system. Proficiency in programming is expected of the students entering this course.
- CS 07340: Design And Analysis Of Algorithms 3 s.h.
Prerequisites: CS 04222 and CS 07210
In this course, students will learn to design and analyze efficient algorithms for sorting, searching, graphs, sets, matrices, and other applications. Students will also learn to recognize and prove NP-Completeness.
- CS 07422: Theory Of Computing 3 s.h.
Prerequisites: CS 04222 and MATH 01131 and CS 07210
This is an advanced course in the theoretical foundations of computer science, building on the introduction provided in the Foundations of Computer Science course. It studies models of computers, such as finite automata and Turing machines, formal languages, and computability, as well as the fundamentals of complexity theory and NP-completeness.
- CS 07522: Advanced Theory Of Computing 3 s.h.
This course builds on the introduction to the theory of computing provided in the course Foundations of Computer Science. It discusses finite automata, formal languages, Turing Machines, and computability theory at an advanced level.
- CS 07523: Advanced Software Engineering 3 s.h.
Prerequisites: Acceptance into the Computer Science MS or BS/MS program
Students will apply their knowledge from Software Engineering to develop an advanced software system, working in teams. The project will be taken through each of the major software development phases, and student teams will create appropriate deliverables for each phase. Advanced modern software engineering topics such as critical systems, real-time systems, formal specification and validation, and project management will be covered. Students will be required to complete in-depth assignments involving conference or journal papers from the software engineering literature.
- CS 07524: Agiles Software Engineering 3 s.h.
Prerequisites: Computer Science graduate standing.
In this, course students apply in-depth techniques and experience various roles incorporated into the agile software engineering methodology. An overview of each of the major software engineering phases is provided and then applied towards the development of faster and more adaptable software. Proficiency in programming is expected of the students entering this course. Students are required to complete in-depth assignments, read, summarize, and present recent journal papers from the agile software engineering literature, and prepare term papers with regard to an agile software engineering research topic.
- CS 07530: Computer Science Thesis I 3 s.h.
In consultation with the instructor, students will identify and research a specific area of computer science or computer science education. Students will define a thesis project and develop a formal specification of their intended project for completion in Computer Science Thesis II.
- CS 07531: Computer Science Thesis II 3 s.h.
Students will follow their formal project specification developed in Computer Science Thesis I to research a specific area of computer science or computer science education and produce a written thesis.
- CS 07532: Computer Science Thesis III 3 s.h.
Prerequisite: CS 07530 AND CS 07531
Students will continue scholarly research that was being done in Computer Science Thesis II and produce a written thesis.
- CS 07540: Advanced Design And Analysis Of Algorithms 3 s.h.
Students in this course will study efficient algorithms for sorting, searching, graphs, sets, matrices, and other applications, and will learn to design and analyze new algorithms. Students will also learn to recognize and prove NP-Completeness.

Course Descriptions

CASE 90803: Equity, Success, and Access Educational Research 3 s.h.
Prerequisite: CASE 90801, CASE 90802.

This seminar is designed to support students approaching their third year in the preparation of dissertation proposal and to facilitate the transition from coursework to dissertation. Students will learn about the dissertation process and develop a plan for completing their dissertation. Each student will prepare a concept paper that frames their dissertation ideas, with emphasis placed on the logical relations between elements. Course must be repeated.

CASE 90810: Quantitative Research Methods in Education 3 s.h.
Prerequisites: CASE 90800

This course provides an introduction to the examination of appropriate quantitative methods in applied educational contexts. Students will learn data analysis strategies for education data with an emphasis on identification and interpretation of findings.

CASE 90811: Multivariate Research Methods in Education 3 s.h.
Prerequisite: CASE 90810

The purpose of this course is to advance students' statistical knowledge with multivariate statistical methods. The course will highlight the implementation and interpretation of these methods. An emphasis will be placed on using statistical methods that simultaneously analyze multiple measurements under investigation in an educational context.

CASE 90812: Qualitative Research Methods in Education 3 s.h.
Prerequisite: CASE 90800

This course introduces students to qualitative research as an approach to exploring and understanding problems of access, success, and equity. This course is required of all PhD students because it lays the foundation to rigorous qualitative empirical research. Beginning with questions of epistemology and an interrogation of competing paradigms, it supports the goals of the program, college, and university by requiring students examine their stance as they undertake research in key areas of access, success, and equity. At the completion of this course students will have fully conceptualized and carried out a qualitative study and written a research paper that can be submitted to a conference.

CASE 90813: Survey Methods in Education 3 s.h.
Prerequisite: CASE 90811

The purpose of this course is for students to examine the major elements involved in planning, conducting, and reporting survey research. An emphasis will be placed on the design, instrumentation, data analysis, and interpretation of survey research.

CASE 90814: Advanced Qualitative Research Methods in Education 3 s.h.
Prerequisite: CASE 90812

This course emphasizes a critical interpretivist approach to qualitative inquiry. It examines critical approaches to research by focusing on contemporary educational problems related to access, equity, and success. This course builds upon Qualitative Research I through the exploration of strategies of inquiry, using qualitative data analysis software, and presenting qualitative research.

CASE 90815: Single Subject Study Design in Education 3 s.h.
Prerequisite: CASE 90811

This course provides the students with a basic knowledge of the theoretical bases and methodological procedures of single subject experimental designs. In this course, content includes variety of single subject research designs, procedures in single subject research, and evaluation of single subject research findings applied in an educational context.

CASE 90816: Mixed Methods Research Methods in Education 3 s.h.
Prerequisites: CASE 90810, CASE 90812

This course is an advanced research seminar on approaches to integrating qualitative and quantitative approaches, methods, and data in a single study. The course covers the assumptions and "mental models" that inform both approaches, and the ways in which qualitative and quantitative goals, questions, methods, analysis strategies, and presentation styles can be productively integrated.

CASE 90817: Experimental Design Research Methods in Education 3 s.h.
Prerequisite: CASE 90811

This course provides the students with a basic knowledge of the theoretical bases and methodological procedures of experimental and quasi-experimental designs applied to educational problems involving access, equity, and success. Course content includes experiments and generalized causal inference, statistical conclusions, validity & internal validity, introduction to statistical power/design sensitivity, construct validity, and external validity, quasi-experimental designs, interrupted time series designs, regression discontinuity designs, randomized experiments, and generalized causal inference from single and multiple studies.

Course Descriptions

CASE 90820: Advocacy, Leadership, and Professional Issues in Counselor Education 3 s.h.

The purpose of this course is to provide advanced graduate student an orientation to counselor education with an understanding of a variety of professional development issues (e.g., research, teaching, consultation, and service). Students will acquire an in-depth understanding of ethical standards of the counseling profession and it application to counselor practice and counselor education. Students will also acquire leadership theory, leadership practice, and advocacy knowledge and skills to help further students, clients, and the counseling profession.

CASE 90821: Advanced Practicum in Counseling for Equitable Career & College Readiness 3 s.h.

Prerequisites: CASE 90820

This course provided advanced graduate students an opportunity to advance to demonstrate and develop counseling skills specifically related to college and career readiness utilizing ethical and culturally relevant counseling practices.

CASE 90822: Advanced Theories of Indiv & Group Coun for Academic, Soc/Emot, & Career Development 3 s.h.

Prerequisite: CASE 90820

This course specifically provides students the opportunity to advance their individual and group counseling skills specifically in the areas of academic, social/emotional, and career development. Students will increase their knowledge based of theories, skills, evidence-based practices, and methods of evaluation counseling effectiveness in both individual and group counseling.

CASE 90823: Supervision in Counselor Education 3 s.h.

Prerequisite: CASE 90821

The purpose of this course is to familiarize students with conceptual, ethical, and methodological issues regarding the supervisory process in the counseling profession. Students will be able to develop and synthesize an ethical and culturally relevant personal approach of implementing counselor supervision that can be applied to a present and/or future setting.

CASE 90824: Adv Theories in Family & Systems Coun, Consul, & Comm Engagement for Ed Access 3 s.h.

This course specifically provides students the opportunity to advance their counseling knowledge, skills, and evidence-based practices specifically in the areas of family and systems counseling, consultation, and community engagement through the lens of educational access for all K-20 students.

CASE 90825: Practicum in Supervision for Counselor Education 3 s.h.

Prerequisite: CASE 90823

This course is intended to assist counselor education doctoral students to apply current supervision facts, concepts, and research in a counseling practicum setting. Furthermore, the course will provide opportunities for experiential learning and skill development in an applied supervisory setting and will enable students to synthesize a personal approach to counselor supervision. This approach will develop out of an integration of knowledge (based on theory) and experience, which can then be applied to a future work setting as a facilitating reflective practitioner.

CASE 90826: Advanced Assessment & Program Evaluation Procedures in Counseling for Access, Equity & Success 3 s.h.

This course extends students' knowledge of the theoretical basis for assessments and assessment techniques used in different counseling settings through a social justice lens. Students will also take an in-depth look at methods of evaluating counseling effectiveness, including the assessment methods used in course development and learn how to conduct program evaluations of counselor education programs.

CASE 90830: Introduction to Postsecondary Education 3 s.h.

The purpose of this course is to provide students with an introduction to the research, theoretical, and practical issues surrounding access to college and equity in postsecondary education institutions. Specifically, it aims to teach students to think critically about access and equity issues related to racial/ethnic minority groups and socioeconomic status. Major themes include: affirmative action, college choice, community colleges, financial aid.

CASE 90831: Organizational Analysis & Administration of Postsecondary Education 3 s.h.

Prerequisite: CASE 90830

This course introduces students to colleges and universities as large, complex organizational systems. Conceptual models for understanding their structures, contexts, and interactions with the broader environment are explored. Major themes include: organizational theory and analysis; the organizational and governance structures in postsecondary education; different models in postsecondary education including two-year and four-year college, public and private colleges, and new developments in the for-profit sector.

Course Descriptions

CASE 90832: International & Comparative Higher Education 3 s.h.
This course explores key constructs, theories, and issues in international higher education, using comparative techniques. Students will explore contemporary educational problems related to access, equity, and success. Students will also consider the complexities of globalization and international policy flows for the reform, practice, and organization of higher education.

CASE 90833: Public Policy & Analysis in Postsecondary Education 3 s.h.
Prerequisite: CASE 90830
This course introduces students to the policy process affecting American postsecondary education. This course will explore current policies that influence colleges and universities and their students. Specific policy topics including access, equity, finance, and accountability policies in the postsecondary context.

CASE 90834: Student Learning & Development: Impact of Postsecondary Education 3 s.h.
Prerequisite: CASE 90830
The purpose of this course is to provide students with an in-depth exploration of the current theory and conceptual frameworks utilized in research focused on students' learning and development while in college and the impact of college on learning and development. The course foci include: the methodology of studying college impact; conceptual models of student development and the impact of college; learning and cognitive development; moral development; and conducting research on educational attainment, career and economic benefits, and quality of post college life.

CASE 90835: Theoretical and Conceptual Frameworks in Higher Education 3 s.h.
Prerequisite: CASE 90830
The purpose of this course is to provide students with an in-depth exploration of the current theory and conceptual frameworks utilized in research focused on issues of access, success, and equity in higher education settings. Students will gain a broad understanding of issues related to understanding the role of theory and conceptual frameworks in research and research design as well as operationalizing theoretical concepts in research design and data interpretation. Theoretical approaches used in research examining inequality of access and success in higher education will be a focus of the course. These theories include: Critical Theory; Critical Race Theory; Cultural Capital, Social Capital, and Habitus; Status-Attainment; Human Capital; Funds of Knowledge; New Institution Theory; and Post-Structural Theory. This course will provide students with relevant skills to understand and utilize theory in research on access, success, and equity.

CASE 90836: Assessment & Evaluation in Postsecondary Education 3 s.h.
Prerequisite: CASE 90830
This course introduces students to the process of program development, change, improvement and evaluation for postsecondary education. It furthers students' knowledge of the theoretical basis for assessment and evaluation. Students will learn how to cultivate a culture of inquiry that uses data as an opportunity for exploring equity in programs and broader organizational contexts and developing solutions to improve performance.

CASE 90840: Theoretical Perspectives in the Study of Literacy 3 s.h.
Prerequisites: Admittance to the PhD program (D800)
This course examines influential theories and research that address the broad and continually evolving knowledge-base in literacy. Candidates analyze foundational and cutting edge studies in the field of literacy and consider how leading and often competing reading theories developed over time as well as how seminal research studies were conducted and considered by scholars, practitioners and policy makers. The course emphasizes the ways in which a personal belief system impacts a theoretical orientation to practice and/or research. In addition, the course will focus on research propelling current conversations in the literacy field. Topics explore how the definitions, purposes and practices of literacy often depend on characteristics having to do with language, class, gender, print versus electronic text, and contextual considerations such as in-school versus out-of-school settings or local versus federal policy.

CASE 90841: Transliteracy and Translingualism 3 s.h.
Prerequisites: CASE 90840
This course focuses on transliterate and translingual theories, pedagogies, and policies in K-12 classrooms. Candidates will understand the history of literacy, and the inter-relationship of literacy, context, and culture. It explores how many languages and the power of multiple languages comes into use to communicate and to gain access in a more global world. The course also emphasizes research on current conversations in the field of printed literacy. Finally, students will be able to define what it means to be trans-literate in the 21st century.

CASE 90842: Multicultural & Multilingual Issues in Literacy Education 3 s.h.
Prerequisites: CASE 90840
This course explores multicultural and multilingual issues in local and global educational and societal contexts. Being more common than not, multilingualism exists across the globe in a variety of contexts; students will explore studies in both local and global instances that demonstrate how people negotiate their multilingualism to achieve access and success. Students will draw connections between local to global language issues, and how, at times, the issue is resolved in one context but not the other. Finally, the course focuses on what research in multilingualism means for schools, classrooms, teachers, and

teacher educators.

CASE 90843: Literacy as Practice In & Outside of School 3 s.h.
Prerequisite: CASE 90840

This course investigates literacy practices that occur in a range of institutions and social spaces with an interest in expanding conceptions of what counts as literacy. This course introduces students to an array of theoretical frameworks within which contemporary scholars define, study, and explain literate actions as simultaneously individual and collective. These traditions include but are not limited to: critical literacy; socio-cultural theories; activity theory; ethnography of communication; technologically mediated literacies; narrative theories. Tensions between school curriculums and students' out-of-school literacy practices are discussed with emphasis on research as a means to transform school spaces, creating greater success and equity.

CASE 90844: First & Second Language Acquisition 3 s.h.
Prerequisite: CASE 90840

This course examines the theoretical bases and research perspectives on second language acquisition and linguistic diversity in the United States. This course will prepare doctoral students to be able to critically review theories and research on first and second language acquisition and linguistic diversity, select appropriate assessments when conducting research in the field, understand the unique features of second language acquisition that influence language and literacy development, and identify the social and cultural contexts that influence language and literacy development and the success and equity of school learning in general and how to account for this variance in research design.

CASE 90845: The Pedagogy of Literature for Children & Adolescents 3 s.h.
Prerequisite: CASE 90840

This course is an introduction that examines literature used in schools through literacy theories, children's literature, and empirical research that address current theoretical discussions. Candidates will be able to define what is children's literature. In addition, they will examine how literacy theory helps to understand children's literature. They will also look at empirical research on reader response and discover ways it informs pedagogy and creates greater equity in P-12 classrooms.

CASE 90846: Sociolinguistics & Discourse Analysis in Literacy Studies 3 s.h.
Prerequisite: CASE 90840

This is an in-depth study of language and literacy practices in its social context, especially educational contexts. The courses emphasize how language and literacy practices produce an inequitable world, but also how language and literacy can be used to change this inequity. The course will survey various research approaches in literacy studies, including linguistic ethnography and discourse analysis. We will consider the underlying theories guiding these approaches and apply these to data analysis in literacy contexts.

CASE 90850: Access, Success & Equity in Special Education 3 s.h.

This course focuses on historical and contemporary issues of access, success and equity in the field of special education. Students will examine evolving changes in perceptions toward and services for individuals with exceptional learning needs. In addition to investigating multiple contemporary issues in the field of special education, students will prepare an extensive analysis of one current issue affecting individuals with exceptional learning needs and articulate implications that support improved access, success and equity for all persons.

CASE 90851: Research to Practice in Special Education 3 s.h.
Prerequisite: CASE 90850

This course focuses on contemporary research methods and practices in special education. Students will examine how research can change practice and what is needed in order to implement research-based findings in education settings. Students will identify an area of research and prepare an extensive review of the literature that illustrate the development of this research and its impact on special educational practices as well as the impact on access, success, and equality for all persons.

CASE 90852: Program Evaluation & Planning in Special Education 3 s.h.
Prerequisite: CASE 90850

This course will enable students to identify and develop effective models for evaluating the success of special education programs, including their success in meeting the goal of access, success, and equity for all individuals. Students will study evaluation approaches and formative and summative assessment models that contribute to program evaluation, with a focus on developing a management/decision-oriented evaluation plan. A field experience is a mandatory component of this course. The major course assignment will require students to develop an evaluation plan, complete the program evaluation in their field placement, and report evaluation findings to stakeholders. This course serves as a practicum for the conceptualization and development of a doctoral research study that employs a program evaluation model.

Course Descriptions

CASE 90853: Leadership, Policy, & Ethics in Special Education 3 s.h.
Prerequisite: CASE 90850

This course focuses on analysis of legislation, litigation, and administrative rulings related to special education. Students will explore professional ethics and standards and build critical knowledge and skillsets for leadership at all levels of special education. This course will provide and understanding of legally sound policies and procedures to ensure educationally meaningful and legally correct education for students with disabilities.

CASE 90854: Personnel Preparation & Effective Teaching in Special Education 3 s.h.
Prerequisite: CASE 90850

In this course, students will explore current issues and research related to special education program design, curriculum development, course delivery, and evaluation. Further, they will identify evidence-based practices of and develop skills in professional learning, mentoring/coaching, and communities of practice for practitioners in special education and disability services.

CASE 90855: Evidence Based Practices in Special Education 3 s.h.
Prerequisite: CASE 90850

The use of evidence-based practices is at the core of successful practice in special education. In this course, students will examine the concept of evidence-based practice as it has evolved in fields such as medicine. They will also examine the challenge of developing and using evidence-based practices in special education. Emerging technology-based practices will be a focus of this course. Students will be challenged to apply their knowledge of cognitive and behavioral science, learning theory, and instructional technologies to improve programs, services, and supports to ensure access, success, and equity for all students.

CASE 90856: Current Issues in Special Education 3 s.h.
Prerequisite: CASE 90850

This course focuses on contemporary issues in the field of special education. Students will select one or two important topics to study through research review, and lead discussions of the study with peers. Students are required to develop a conference proposal and submit for a presentation. A grant application collaborating with the course instructor and other students is also required.

CASE 90859: Special Topics in Special Education 3 s.h.
Prerequisite: CASE 90850

This special topics course allows PhD candidates in the Special Education specialization to explore timely content, methodologies, and pedagogy that fills a gap in knowledge, skills, or interest. The topics are determined through collaboration between students and specialization faculty based on student needs and interest.

CASE 90890: Dissertation Research 1 to 12 s.h.
Prerequisite: CASE 90803

This course is designed for students in the PhD in Education program who are completed with coursework. Students who are working on the dissertation must enroll in this course. Students will take up to 21 credits total.

CASE 90543: Structural, Cultural and Demographic Displacement in Urban Educational Contexts 3 s.h.

This course will examine the global forces that lead to migration and US immigration policy. Students will explore refugee resettlement in urban contexts and how schools, in collaboration with community groups, refugee agencies, businesses, and religious organizations, provide services to students who have experienced interrupted education, who may suffer from physical and psychological disabilities due to conflict, or who may contend with insecurity at home and in the community. Students will research the differential impact of gender, language, ethnicity, and race on access to quality education and the innovations aimed at servicing displaced people in urban educational contexts. Finally, students will engage with diverse cultural perspectives through interaction with local refugees and displaced persons.

CASE 90718: Research Literature Analysis and Writing in Education 3 s.h.

This course is designed to assist students in reading, interpreting, understanding and digesting research literature as well as to assist students in basic academic writing skills and APA style. Students will learn the function of a literature review in the research process and will learn to synthesize a body of research and write a cohesive literature review.

COUN 26501: Introduction To Counseling And Guidance 3 s.h.

This course provides a comprehensive, introductory overview of the profession of school counseling. It provides students with the philosophical and historical perspectives that serve as a foundation for the school counseling profession. The course also addresses current professional issues such as legislation, associations, certification, licensure, and accreditation. In addition, information will be provided as to the diversity of roles, job outlook, and specializations within the counseling field.

Course Descriptions

COUN 26509: Group Counseling In Educational Settings 3 s.h.
Emphasis is placed in the design, planning and facilitation of a group. The focus of the class is experiential whereby students learn group facilitation skills while being part of a group process. The course covers basic skills for group leaders, introducing, conducting and processing exercises, kinds of counseling and therapy groups, dealing with problem situations, and multicultural considerations.

COUN 26520: Design And Coordination of Developmental Counseling Programs 3 s.h.
This course provides a thorough exploration of developmental counseling programs to meet students' academic, social-emotional and career development needs. It also discusses how such programs are integral to school educational and preventive programs including collaboration and consultation skills and substance awareness programming.

COUN 26523: Counseling Interviewing Skills And Techniques 3 s.h.
The course explores the nature of counseling and its relationships to theoretical concepts. The course also teaches fundamental counseling skills such as relationship building, basic assessment, goal setting, selection of interventions, and evaluation of client outcomes.

COUN 26524: Assessment And Appraisal Procedures In Counseling In Educational Settings 3 s.h.
An overview of formal and informal assessment and appraisal methods for evaluating student trends in academic, behavioral, socio-emotional and career development and performance in educational settings (K-16). Topics include: psychometric statistics, factors related to the assessment and evaluation of individuals, groups and special populations, case conceptualization, assessment, and diagnosis. The processes of selection, administration, scoring, interpretation, and reporting information from appraisal techniques are examined in relation to practical, legal, and ethical considerations.

COUN 26525: Multicultural Counseling And Advocacy In Educational Settings 3 s.h.
This course provides a thorough explanation of multicultural school counseling. It presents relevant skills in counseling culturally diverse populations, as well as current theories and trends in multiculturalism as they relate to K-12 and post-secondary educational settings. The course addresses current professional issues such as promoting academic achievement and student retention among diverse student groups, working with culturally diverse families, and recognizing cultural influences on student behavior.

COUN 26526: Individual Counseling Procedures 3 s.h.
Coverage of all major counseling theories is provided with an emphasis on developing one's personal counseling philosophy and an integrative approach. Using assigned readings, discussion, and interactive counseling situations, students are provided with opportunities to refine their counseling skills; the "theory to practice" approach is utilized.

COUN 26527: Practicum In Counseling In Educational Settings 3 s.h.
Prerequisites: (COUN 26526 Individual Counseling Procedures and COUN 26529 Counseling Interviewing Skills and Tech and COUN 26501 Introduction to Counseling and Guidance.
The purpose of this course is to help each student develop effective individual counseling skills which can be used in a multiplicity of settings. Students enrolled in this course will study and apply various contemporary theoretical approaches to counseling through role playing and video taping techniques. A field-based experience of 100 clock hours is required.

COUN 26582: Career Counseling In Educational Settings 3 s.h.
This course seeks to develop a conceptual framework of the career development process throughout the life span as well as practical knowledge of the information system in counseling and career counseling procedures. The course covers the major theories of career development, the structure of the world of work, testing and assessment, computer assisted career guidance systems and systematic career development programming.

COUN 26597: Intervention and Referral Services/School Teams and Community Resources 3 s.h.
This course seeks to develop effective individual counseling skills which can be used in a multiplicity of settings such as school counseling, student assistance coordination, and higher education advisement. Students enrolled in this course will study and apply various contemporary theoretical approaches to counseling through direct supervision in educational and applied settings. A field experience of 100 clock hours is required under the supervision of an appropriately credentialed supervisor.

COUN 26601: Internship In Counseling In Educational Settings 3 s.h.
Prerequisites: COUN 26520 and COUN 26509 and COUN 26526 and COUN 26501 and COUN 26527 and COUN 26582
Internship I in Counseling/Student Personnel Services is one of the culminating field-based experiences for matriculated students taken during the final Fall semester of one's program. Students spend a minimum of 300 clock hours throughout each semester at their selected internship site for a maximum of 600 clock hours in one academic year. Emphasis is placed upon gaining direct experiences and actually participating in all phases of student services. Internship students work under the direction of an on-site mentor, and a college-faculty supervisor. Internship students attend topical seminars on campus.

Course Descriptions

COUN 26603: Research And Evaluation Procedures In Counseling In Educational Settings 3 s.h.
Prerequisites: COUN 26520 and COUN 26509 and COUN 26526 and COUN 26501 and COUN 26527 and COUN 26582

Research and Evaluation Procedures in Educational Settings will provide opportunities for students to conduct focused inquiry and to generate knowledge around those factors germane to the field of counseling. During this course, students will begin an action research thesis project focusing on school-counseling program reform, with emphasis on systems change processes, needs assessment, goal setting, and data gathering processes.

COUN 26605: Special Topics in Counseling in Educational Settings 1 to 3 s.h.

This course is a series of three 1 Semester Hour seminars designed to explore and discuss current issues in counseling. Selected topics include adventure learning, (ropes course), loss and bereavement, communicating for intimacy, and existential thought and spirituality.

CURR 29503: Teaching Adult Learners 3 s.h.

The general purpose of the course is to help participants become better instructors of adults. The course focuses on proven methods and techniques for teaching adults in a variety of settings. Special attention will be paid to the individualizing instruction process. Course participants will strengthen both theoretical and practical understandings of the adult learning process, study methods and techniques for teaching adults, and critically reflect on their own instructional efforts.

CURR 29504: Understanding Adult Learning And Development 3 s.h.

The general purpose of the course is to introduce participants to the processes of adult development and learning. The course examines the social, psychological, economic, and cultural dimensions of learning in adulthood as well as the application of theory and research findings to adult learning situations. Special attention will be paid to the concept of learning how to learn. Course participants will be invited to undergo a series of thinking style and learning style profile tests and then analyze the results in an effort to improve learning performance.

EDAM 27505: Selected Topics In Educational Leadership 1 to 6 s.h.

This course explores one or more topics of importance in the field of educational leadership. The focus will be different each time that the course is offered.

EDAM 27510: Change For School Improvement 3 s.h.

This advanced course in school leadership enables students to better understand the change process, further developing their analytic skills for improving the teaching and learning process. This course is offered annually and includes a field experience component.

EDAM 27521: Introduction To The Principalship 3 s.h.

The essence of school administration is the ability to supervise and manage the school organization, including its personnel, resources, and operations. In this course, students learn and demonstrate the supervisory and management skills necessary to use data-driven decision-making strategies to create an effective school culture and climate, supervise and manage school personnel and plant, supervise the application of instructional and informational technology, supervise scheduling and business procedures, and advocate for school resources among community and service agencies in ways that give priority to student learning, safety and security, and curriculum and instruction. Effective communications skills are emphasized.

EDAM 27525: INDEP STUDY-ED LEADERSHIP 1 to 6 s.h.

EDAM 27535: School Finance And Records 3 s.h.

Students learn and demonstrate the ability to develop budgets, apply principles of financial management, budget management. Students study how schools are supported financially. This course includes a field experience component.

EDAM 27536: Financial Accounting For School Systems 3 s.h.

This course will provide students with the knowledge and skills required to initiate and maintain a school district accounting program. The course will emphasize—but not be restricted to—the laws and procedures relative to New Jersey school accounting. This course includes a field experience component.

EDAM 27538: School Business Management 3 s.h.

This course is designed to provide graduate students with an introduction to the skills, concepts, and insights necessary for the school business administrators to manage, as members of the administrative team, increasingly complex schools to obtain the greatest educational return for each tax dollar expended. This course includes a field experience component.

Course Descriptions

EDAM 27559: Law And Ethics For School Leadership 3 s.h.
Students study and understand and demonstrate the ability to identify legal issues involved in personnel administration, school district government and operation, state aid, handicapped children and student rights. Includes a study of the legal structure of the New Jersey school system.

EDAM 27600: Practicum/Seminar In Administration/Supervision I 3 s.h.
Prerequisite(s): EDSU 28546 and EDAM 27535 and EDSU 28510 and EDAM 27510 and CURR 29590 and EDAM 27521 and EDSU 28522 and EDST 24504 and EDAM 27559 and EDSU 28523
An administrative internship to reinforce and practice administrative and supervisory competencies, in cooperation with a school district, is required. Students apply human relations skills, apply decision-making skills, articulate ethical beliefs and values and apply various leadership theories. Students also demonstrate group process abilities such as shared decision-making, group motivation, conflict resolution, and planning and conducting effective meetings. A project report is required integrating research findings with selected field projects. Written and oral communication and community relations skills are emphasized.

EDAM 27601: Practicum/Seminar In Administration/Supervision II 3 s.h.
Prerequisite: EDAM 27600
An administrative internship to reinforce and practice administrative and supervisory competencies, in cooperation with a school district, is required. Students apply human relations skills, apply decision-making skills, articulate ethical beliefs and values and apply various leadership theories. Students also demonstrate group process abilities such as shared decision-making, group motivation, conflict resolution, and planning and conducting effective meetings. A project report is required integrating research findings with selected field projects. Written and oral communication and community relations skills are emphasized.

EDAM 27610: Human Resources For School Systems 3 s.h.
Analyzes the legal developments and trends in collective negotiations in the public sector. Topics to be developed are the process of effective negotiations, organization rivalries, grievance procedures, the impasse and the comprehensive agreement. This course may not be offered annually. It includes a field experience component.

EDAM 27620: Legal Issues In Higher Education 3 s.h.
This course examines the legal principles that guide the administration of higher education. Students will study current and emerging legal issues in higher education, focusing primarily on student rights, student life, and general administration legal concepts.

EDAM 27621: Student Services In Higher Education 3 s.h.
This course traces the historical development of student services and examines the philosophy and rationale for current student services. Reflecting upon the demographic trends affecting higher education, students consider the extent to which the nature, scope, and delivery of services should be changed to meet emerging needs.

EDAM 27622: Planning And Resource Allocation In Higher Education 3 s.h.
This course will teach students practical approaches to strategic and operational planning in higher education, as well as how to develop budgets that are driven by institutional mission and that support the institutional plan.

EDAM 27623: Diversity In Higher Education 3 s.h.
The purpose of this course is to provide students with an in-depth exploration of diverse populations on college campuses. Students will utilize a broad view of diversity, including race, ethnicity, gender, religious and spiritual values, sexual orientation, socioeconomic status, disability status, and age, as well as unique characteristics of various ethnic and cultural groups that affect college students and campuses. This course will provide students with relevant skills and understanding of current theories, models, and issues within diverse populations and community building on diverse campuses. The readings, discussions, and assignments are intended to provide information for student affairs professionals, administrators, or faculty members.

EDAM 27624: College Admission And Transition 3 s.h.
Prerequisites: HIED 06605 or EDAM 27737 or COUN 26526 or COUN 26520
This course provides an overview of admissions processes in higher education in the United States and incorporates service learning to assist high school students' college search/application processes. Through the service learning experience, students completing the course will have a fuller understanding of issues in admissions, including diversity and equity issues, and how these issues affect students applying to colleges. The topics covered include the admission process, stratification in postsecondary attendance patterns, college counseling, service learning, establishing and maintaining appropriate relationships, as well as the role of reflection in service learning. Particular attention is paid to issues of campus diversity and equitable access to postsecondary education. The readings, discussions, and assignments are intended to provide information for student affairs professionals, school counselors, administrators, or faculty members. All students will be required to complete a fingerprinting and background check process.

Course Descriptions

EDAM 27625: Change In Higher Education 3 s.h.
This course will focus on the change process both theoretically and practically. Each student will undertake an action research project that will serve as the basis for the thesis. A complete first draft of the thesis will be required by the end of this course.

EDAM 27628: Seminar/Internship In Higher Education Administration I 3 s.h.
This course is the first of a two course sequence which is intended to serve as the capstone experience for the M.A. program in higher education. Students will utilize a workplace in a higher education setting as a laboratory to study the application of higher education administrative theory to practice and to begin work on a major capstone research project.

EDAM 27629: Seminar/Internship In Higher Education Administration II 3 s.h.
This course is the second of a two course sequence which is intended to serve as the capstone experience for the M.A. program in higher education. Students will utilize a workplace in a higher education setting as a laboratory to study the application of higher education administrative theory to practice and to complete work on a major capstone research project.

EDAM 27630: Academic Advising in Higher Education 3 s.h.
Prerequisite(s): None
The purpose of this course is to provide students with an in-depth exploration of academic advising on college campuses. Students will gain a broad view of the role and function of academic advising, including its essential role in student development, engagement, retention, and success. Specifically, students will learn about the historical development of academic advising; its current role in student development, success, and retention; the role of academic advising in the multiple academic setting (community colleges, four year universities, special mission institutions); and how to assist students in planning their academic processes. This course will provide students with relevant skills and understanding of current research, models, and considerations for working with diverse and special populations. The readings, discussions, and assignments are intended to provide information for student affairs professionals, administrators, or faculty members.

EDAM 27637: Higher Education Administration 3 s.h.
This course introduces students to the fundamentals of administration in the higher education setting. Topics include authority and power, implementation of institutional policy, decision-making in higher education, conflict resolution, staff supervision, and program assessment.

EDAM 27704: Changing Organizations 3 s.h.
This course focuses on the development of leadership skills that will provide students with the ability to implement change in schools and colleges. Specific topics will involve students in the study of organizational and social change, intervention theory, organizational design, group dynamics, interpersonal communication, and the use of self in leadership.

EDAM 27714: Planning And Negotiating 3 s.h.
This course teaches students to set organizational direction with specific goals and objectives to produce an integrated system of decisions regarding strategies, sub-strategies, programs and budgets that will accomplish the goals of the objectives. The course also focuses on the leadership role of creating mutual understanding and agreement among people and groups who may have fundamental differences of opinion.

EDAM 27719: Dissertation Seminar I 3 s.h.

EDAM 27720: Dissertation Seminar II 3 s.h.
Prerequisite: EDAM 27719
This course is intended to assist students as they develop their dissertation proposal and prepare for the Benchmark II, the dissertation proposal defense. Students will draft Chapters 1, 2, and 3 under the guidance of Educational Leadership Faculty members.

EDAM 27733: The Policy Environment 3 s.h.
Educational leaders must understand the policy environment within which they operate in order to equip them to resolve goal conflicts between education and its environment. This course teaches the skills to develop alternative choices to advance education. Topics include economic, political/legal, social, and science/technology policy, as well as cross-cutting issues such as entitlements, privatization, decentralization, deregulation, use of incentives, and funding of mandates.

Course Descriptions

EDAM 27735: Promoting Effective Learning 3 s.h.

In this course, students apply leadership skills through examination and analysis of learning and instruction in their school contexts. The course focuses on examining learning theories, identifying the ways in which certain patterns of activity and interaction promote learning, and applying theories to analyze learning environments. Students also use theoretical perspectives to consider the impact of educational reform and to understand how other social, political, economic, legal, and cultural factors can impact learning.

EDAM 27737: The College Student: Issues And Support Programs 3 s.h.

This course includes the study of student development and academic support in different types of institutions of higher education. Emphasizing the role of the leader, the course studies the rationale, goals, objectives, policies and organizations of selected programs of student services, as well as models for program development and assessment.

EDAM 27741: Current Issues In Higher Education 3 s.h.

This course will have a changing focus that will permit faculty to offer specialized seminars focusing on new developments in the field, on issues of significance where advanced specialization would be helpful to educational leaders, on areas of faculty research and scholarship, or in response to student requests. Multiple sections of this course, each focused on a different topic, may be offered during a semester. Students may take this course for elective credit more than once, as long as the theme of the course is different each time that the student enrolls.

EDAM 27742: The Curriculum Of Higher Education 3 s.h.

This course will examine differences of mission and resulting curricular offerings between types of higher education institutions, external and internal influences that influence the curriculum, the components of curriculum, the curriculum development process, appropriate strategies for curriculum assessment, and contemporary curricular issues.

EDAM 27746: Higher Education Governance 3 s.h.

This course will examine the layered approach to institutional governance, focusing on existing federal higher education policy, the various models of state-level higher education coordination, the function of boards of trustees, and the process of campus decision-making. Students will analyze the role of federal, state, county (if applicable), and campus policy-makers on a specific campus program.

EDAM 27748: Human Resource Development 3 s.h.

This course focuses on improving the performance of the organization through a proactive human resource development effort. It will stress the responsibility of leaders to assist staff through coaching, appraising performance, providing advice, and eliminating barriers to development.

EDAM 27749: Issues In School Governance 3 s.h.

This course identifies current issues in school governance and provides students with the understanding of how the issue develops, those instrumental in promoting the issue, and the ramifications that issue could have for the educational systems and its leader. It will focus in part on the relationships among the educational leader, the school, and state-level authorities. The course will help students to develop their understanding of the role of the educational leader as spokesperson seeking to influence the resolution of issues of school governance.

EDAM 27750: Applied Ethics Of Educational Leadership 3 s.h.

This course will enable students to examine multiple ethical paradigms, to understand the Professional Code of Ethics for educators, to determine one's own code of ethics, and to develop a model for ethical decision-making.

EDAM 27752: Advanced Leadership 3 s.h.

Prerequisite: minimum grade of B in EDST 24720

This course provides students enrolled in the doctoral program with a capstone seminar experience that is designed to synthesize the various facets of leadership, organizations and change in a way that will enable students to view issues related to these topics at a critical/deeper level of analysis while working on the dissertation. Specifically, students will be able to formulate, articulate and design a method to study their personal theory of leadership in action. The course will place special emphasis on issues of contemporary leadership in times of organizational and social turbulence.

EDAM 27780: Community College Leadership And Governance 3 s.h.

This course further develops topics taught in the overview course, The American Community College. It explores topics introduced in the first course such as community college governance and leadership in greater depth, paying particular attention to the governance activities that are the priority of community college presidents such as accountability, accreditation, the role of the federal government, the State and the relationship with the county and the board of trustees.

Course Descriptions

EDAM 27781: Community College Budgeting And Finance 3 s.h.
Prerequisites: EDAM 27782 and EDAM 27780

This course will provide an overview of community college budgeting and finance. It will review the budgeting process in New Jersey and the economic and policy context of budgeting decisions for New Jersey community colleges. There will be a focus on recognizing the fiscal constraints in which community colleges function and the various sources of funding. Students will also gain an understanding of how planning and budgeting processes are related. This course will be applied in nature, drawing upon current community college budgets.

EDAM 27782: The American Community College 3 s.h.

This course provides an overview of the history of the American Community College movement and then examines current issues in light of that history. In addition, the course explores the mission and work of community colleges including current organizational, social, economic, educational, and political challenges and opportunities facing these uniquely American institutions.

EDAM 27783: Student Development And Adult Learning Theory 3 s.h.

Students enrolled in this course will trace the historical foundations of student development theory and adult learning and development theory in higher education with a focus on traditional student and non-traditional student populations. The course will also provide students with models and techniques that guide the practice of student services administration.

EDAM 27784: Introduction to the Community Colleges 1 s.h.

This course is designed to introduce those new to the community college to its history and mission. In particular, it will serve as an introduction to American community colleges and their leadership needs. Students will develop a basic understanding of community colleges role in the postsecondary education sector, their organizational and governance structures, and the current issues facing community colleges.

EDAM 27790: Instructional Leadership And The Curriculum 3 s.h.

This course provides students enrolled in the doctoral program with learning experiences related to Instructional Leadership. Examining in depth the current "best practices," candidates will analyze the role of Instructional Leadership and curriculum. Specifically, candidates will be able to align curriculum to standards, examine potential best practices, and use assessment data to improve learning. The course will place special emphasis on how instructional leadership contributes to student learning.

EDST 24501: Procedures And Evaluation In Research 3 s.h.

The course helps students develop an understanding of research and statistics sufficient to enable them to read and evaluate research, and develop and carry out full scale research projects.

EDST 24503: Quantitative Analysis In Educational Research 3 s.h.

This introductory course is designed to assist educators in the design and implementation of research projects using quantitative methods of analysis. Using a decidedly applied approach, educators will learn how to use computerized statistical analysis programs in conducting quantitative data analyses. Further, they will learn how to compute and interpret statistics of varying types, including t-tests, F tests, r tests, chi-square and other assorted parametric and non-parametric tests of significance.

EDST 24504: Action Research In Education 3 s.h.

This introductory course introduces students to the cyclical and recursive approaches to action research. Students will engage in reflective practice and will complete an action research project in an appropriate educational setting.

EDST 24707: Applied Analysis For Educational Leadership 3 s.h.

This is an intermediate course in quantitative (statistical) analysis with emphasis upon three broad areas: applying correct statistical procedures for data analysis; using automated approaches to hypothetical testing and quantitative analysis, and using intermediate-level statistical procedures in educational inquiry. The course is expected to provide practical knowledge for use by educational leaders to support administrative decisions.

EDST 24709: Issues In Survey Research 4 s.h.

This course teaches methods for designing and implementing survey research, including how to choose a valid sample, handcraft survey instrumentation, avoid non-response bias and other threats to the validity of the survey, and analyze and communicate survey results validly and effectively.

Course Descriptions

- EDST 24721: Action Research In Educational Leadership 3 s.h.
Prerequisite: Matriculation into the Educational Leadership Doctoral Program
This course introduces doctoral students to the action research design. Students will identify a problem in practice, research the problem, and then develop and implement an action research design methodology to address the problem.
- EDST 24724: Issues In Qualitative Analysis In Educational Research 3 s.h.
This course assists the student in preparing an acceptable dissertation proposal. Topics include alternative approaches to conducting dissertation research, designing an effective study, and recognizing and avoiding common difficulties encountered in dissertation research.
- EDST 24725: Mixed Methods Research In Educational Leadership 3 s.h.
Prerequisite: EDST 24721 and EDST 24724
This course introduces students to mixed methods research approaches in education, a contemporary approach to the complex problems in the field of education today. Students will explore qualitative and quantitative methods and develop an understanding of how to read, design, conduct, and synthesize mixed methods research. Students will also practice understanding and evaluating data and research to support their decisions.
- EDST 24795: Dissertation Research 1 to 12 s.h.
This is a 12 credit independent research project to be conducted in conformity with the student's dissertation proposal that has been approved by the student's doctoral committee. Students may register for all 12 credits at once or may register in four credit increments for three consecutive semesters including summer. Dissertations must be completed within three years of passage of the second benchmark.
- EDSU 28510: Curriculum Design & Development for Instructional Leaders 3 s.h.
This course provides instructional leaders with an understanding of curriculum design and development from the perspective of Instructional leadership. Particular attention is focused on understanding various curriculum models, the process of curricular articulation and coherence, the relationship between curriculum and Instructional leadership and student outcomes as well as aligning curriculum with learning goals.
- EDSU 28511: Leading Curricular Implementation & Assessment for School Improvement 3 s.h.
Prerequisite: EDU 28510
This course provides instructional leaders with an understanding of curriculum implementation and assessment and the tools to utilize the curriculum implementation and assessment process to improve schools and student learning outcomes.
- EDSU 28522: Instructional Leadership And Supervision 3 s.h.
In this course, students focus on the knowledge, skills, and dispositions essential for instructional leadership and the supervision of educational activities and programs. Topics include program planning, staff selection and mentoring, curriculum development and evaluation, analyzing teaching and interpersonal supervisory strategies, collaborative program development, practicing value-added leadership and supervision, reflective practice, understanding the need for diversity in teaching and learning, and communication. This course also includes a field experience component of approximately 25 clock hours in which students apply theory to practice.
- EDSU 28523: Building Organizational Capacity Through Leadership And Supervision 3 s.h.
This advanced course in school leadership enables students to practice the cyclical and recursive approach to action research. Students will engage in reflective practice and will complete an action research project in an appropriate educational setting related to the teaching and learning process. This course is offered annually and includes a field experience component.
- EDSU 28546: Educational Organizations And Leadership 3 s.h.
In this course, students will demonstrate an understanding of organizational theory that underlies effective leadership and supervisory behaviors in P-12 environments. Students will further demonstrate that they can analyze and supervise school and programmatic activities, nurture and supervise a vision for improvement in teaching and learning, lead and supervise change, support staff development, and use effective supervisory skills. Other topics include the history and philosophy of school leadership and supervision, effective schools, effective teaching, and the future of school leadership and supervision.
- EDSU 28602: Field Service In Supervision: District Internship 1 to 6 s.h.
This course is designed to respond to the needs of school administrators and supervisors for developing effective supervisory skills. The content for each course offering will be determined after a local analysis of needs has been conducted. Semester hour credit will be assigned prior to registration.

Course Descriptions

EDSU 28706: Diversity And Educational Leadership 3 s.h.

This course deals with diversity both among the student body and the workforce. It addresses the ways that people are alike and explores issues of difference. It focuses on the power that valuing difference can have in establishing quality interpersonal relations, in taking advantage of the cultural richness that can result from diversity, and in creating mutual respect among groups. It examines how the educational leader might overcome resistance to change in this regard.

EDSU 28715: Leadership Theory 3 s.h.

This course is the foundation course for the Doctoral Program in Educational Leadership. Leadership will be defined, demystified, and distinguished from management and administration. The roles and expectations of leaders will be explored, and the competencies required for leadership will be identified. Issues of power, authority, and ethics are studied.

HIED 06603: Seminar/Internship In Higher Education Instruction 4 s.h.

The goal of this seminar is to prepare students to teach in a higher education setting in selected areas by engaging them in a comprehensive instructional internship in a cooperating institution of higher education. The seminar will provide the opportunity to explore best practices in instruction and to reflect on the internship experience.

HIED 06605: Higher Education In America 3 s.h.

This course focuses on issues and trends within higher education regarding institutional mission, the student body, curriculum, faculty, student services, governance, administration, finance, and community service (including economic development). The course will examine the challenges and opportunities confronting higher education.

HIED 06606: Selected Topics In Higher Education 3 s.h.

This course explores a topic of importance in the field of higher education. The focus will be different each time that the course is offered. Examples of courses that might be offered include: New Directions in Financial Aid; Outcomes Assessment; Distance Learning; State Higher Education Systems; Federal Policy and Higher Education; Student Activism.

HIED 06609: Effective Teaching in Academic, Corporate, and Government Settings (3 S.H.) 3 s.h.

Co-listed as ENGR 01.601 Effective Teaching in Academic, Corporate, and Government Settings.

The purpose of this course is to provide students with an in-depth exploration of effective teaching practices in academic, corporate, and government settings. Students gain a broad view of the role and function of teaching and oral presentation, as well as how to communicate effectively in these settings. Specifically, the course introduces instructional methods and strategies, adult learning theory and implications for effective teaching, documenting and assessing student learning, and how to improve instruction in academic, corporate, and government settings. Several real-world scenarios are discussed and simulated, including preparing academic courses and corporate training packages, assessing audience background and setting appropriate technical rigor and level, building classroom/meeting room/ presentation room management skills, conflict avoidance and resolution in such settings, effective strategies for delivering technical content at meetings and conferences, and answering audience questions that may be adversarial in nature. The course provides readings, discussions, assignments, and most importantly ample opportunities for practice teaching, including a semester-long apprenticeship with experienced faculty, allowing students to experience all aspects of teaching and classroom management.

Co-listed as ENGR 01.601 Effective Teaching in Academic, Corporate, and Government Settings (3 S.H.)

HIED 06610: Assessment and Evaluation in Health Professions Education 3 s.h.

Prerequisite(s): CURR 29503 and EDAM 27742

This course introduces medical school faculty members and other health professionals to assessment and evaluation in health profession education, including a focus on student learning outcomes and program evaluation to enhance the curriculum. The ability to utilize data to make decisions on students' progress, on curricular alignment, on course and program learning goals, and on improving student and programmatic outcomes are critical to the success of health professions educators. Students will learn multiple approaches for assessment and evaluation, how to operationalize learning goals for effective assessment and evaluation, how to utilize multiple assessment tools and approaches, how to develop assessment and evaluation plans, and how to utilize assessment and evaluation data in decision-making.

HIED 06611: Applied Instructional Techniques and Practices 3 s.h.

Prerequisite(s): HIED 06610

This course provides an opportunity for medical school faculty members and other health professionals to develop their skills as master teachers by engaging in project-based demonstrations of their ability to create learning experiences for diverse learners in multiple contexts, including large and small group sessions, clinical settings, and simulations. This course synthesizes previous coursework from Teaching Adult Learners, The Curriculum of Higher Education, and Assessment and Evaluation in Health Professions Education and provides opportunities to apply this knowledge.

Course Descriptions

HIED 06612: Organizational Development: Understanding the Structure/Function/Cultures of Health Organizations 3 s.h.

Prerequisite: EDSU 28715

This course provides an opportunity for medical school faculty members and other health professionals to develop their skills in organizational development as pertaining to health professions organizations. The course focuses on understanding different models and functions of organizational structures. Additionally, the course includes a focus on understanding how organizational cultures develop, and developing the ability to apply various models to promote organizational development.

HIED 06613: Professional Development: Promoting a Culture of Continuous Improvement in Hlth Organizations 3 s.h.

Prerequisites: EDAM 28715, HIED 06612, EDAM 27625

This course introduces medical school faculty members and other health professionals to continuous improvements in organization through mentorship and professional development in health professions education. The course builds on earlier courses in leadership, change, and organizational development and engages students in understanding how leaders promote continuous improvement through mentorship and professional development.

PSY 06628: Individual Psychodiagnostics II 3 s.h.

This course will focus on cognitive and educational assessment based on the Cattell-Horn-Carroll (CHC) theory of intelligence. Administration and interpretation of the Stanford-Binet: Fifth Edition and the Woodcock-Johnson Assessment Battery: Third Edition will be the course competencies. Special assessment issues covered will include nondiscriminatory assessment, preschool assessment and the assessment of academic achievement, with particular emphasis on the assessment process as a link to classroom cognitive and instructional intervention.

PSY 06632: School Psychology: Consultation And Intervention 3 s.h.

The course is designed to help students become familiar with alternative frameworks for educational delivery systems including emerging skills in instructional and collaborative consultation, teaming strategies, curriculum based assessment and measurement, and intervention strategies in the academic, behavior and social areas. Emphasis is placed in viewing the problems children experience in schools from a systems or ecological perspective as opposed to residing within the child. The role of the school psychologist will be enlarged to permit their effective participation in transdisciplinary school based terms.

SNUR 92407: School And Family Issues For Children With Ongoing Health Care Needs 3 s.h.

This course explores various health care needs of the chronically ill school age child. There is an emphasis on the importance of collaboration between home and health care providers. Family dynamics and legal issues are discussed and resources are identified. The teacher's role in meeting both the educational and health care needs of children is stressed.

SNUR 92430: Methods And Materials In Health Teaching For School Nurses 3 s.h.

This course emphasizes the school nurse's expanding role as a classroom health teacher as well as a resource person to the school staff. Discussions and experiences will center on theories of teaching and learning, planning for teaching, curriculum development, the New Jersey Core Curriculum Content Standards (NJCCCS), teaching strategies, educational resources, classroom management, assessment, and the integration of health teaching into varied school subjects. A K-12 classroom experience is included to facilitate the integration of theory into the clinical practice.

SNUR 92444: Practicum In School Nursing 3 s.h.

Prerequisites: SNUR 92466

The purpose of this field experience is to provide an opportunity for the student to engage in a mentoring relationship with an experienced, certified school nurse. The student will have the opportunity to observe and participate in the various roles, functions, and activities of the school nurse. The course requires 50 hours of clinical experience with the school nurse mentor. A University supervisor will visit the student in the field placement situation. Meetings of all students enrolled in the Practicum are held periodically at the University's Glassboro campus.

SNUR 92445: Internship In Health Teaching For School Nursing 3 s.h.

Corequisites: SNUR 92448 Prerequisites: SNUR 92430 and SNUR 92466

The purpose of this field experience is to provide an opportunity for the student to utilize the NJ Comprehensive Health Education and Physical Education Curriculum Framework and the NJ Core Curriculum Content Standards to teach health classes in a classroom setting with an experienced, New Jersey certified teacher. The course incorporates the interaction between the school nurse and the school counseling program, by utilizing school guidance counseling standards and indicators. The course requires 10 hours of teacher observation prior to teaching 40 hours of health. A college supervisor will visit the student in the employed or field placement situation. Meetings of all students enrolled in the Internship course are held periodically at the University's Glassboro Campus.

Course Descriptions

- SNUR 92466: School Health Services 3 s.h.
School Health Services and functions of the school nurse within the organizing framework of the CDC's School Health Model/Whole School, Whole Community, Whole Child are discussed, as well as specific roles to include that of the school nurse within the comprehensive school counseling program. The interface between health services and nationally utilized school guidance counseling standards and indicators is discussed. Fundamentals of substance abuse are included to provide basis of understanding with regard to the role of the school nurse including relevant information as it relates to best practices, resources and the referral process. Particular emphasis is placed on the role of code, regulation and SHS policy, as well as available resources relating to students, their families and SHS personnel.
- SNUR 92751: Instructional Design & Curriculum Development In Nursing Education 3 s.h.
Prerequisite: EDAM 27783
This course explores the developing role of the nurse as an educator and Instructional leader. The process from institutional design, curriculum development, methodologies, strategies and outcomes will be emphasized to facilitate the learning process.
- SNUR 92752: Nursing Program Evaluation & Information Resources 3 s.h.
Prerequisites: EDAM 27783 and SNUR 92751
This course will explore how information technology and resources are transforming nursing education. The methodology of evaluating comprehensive nursing programs within the context of core competencies, technology, standards, and accreditation for quality management are reviewed.
- SNUR 92753: Practicum In Nursing Education 3 s.h.
Prerequisites: EDAM 27783 and SNUR 92751 and SNUR 92752
This practicum will provide the student with the opportunity to synthesize and apply acquired knowledge and skills in a planned and guided teaching-learning environment through the mentorship process.
- SPSY 06627: Cognitive Assessment And Data-Based Decision Making 3 s.h.
Prerequisite(s): Matriculation in the Educational Specialist Program in School Psychology or by permission of the Program Coordinator or Course Instructor
This course will focus on an overview of theories of intelligence as well as the use, organization and interpretation of individual standardized tests. Specifically, administration and interpretation of the Wechsler Scales will be expected outcomes of the course. This includes training on the WPPSI-III, the WISC-IV, the WAIS-III and the WIAT-II, with particular emphasis on the assessment process as a link to classroom cognitive and instructional interventions.
- SPSY 06628: Psychoeducational Assessment And Data-Based Decision Making 3 s.h.
This course will focus on cognitive and educational assessment based on the Cattell-Horn-Carroll (CHC) theory of intelligence. Administration and interpretation of the Stanford-Binet: Fifth Edition and the Woodcock-Johnson Assessment Battery: Third Edition will be the course competencies. Special assessment issues covered will include nondiscriminatory assessment, preschool assessment and the assessment of academic achievement, with particular emphasis on the assessment process as a link to classroom cognitive and instructional intervention.
- SPSY 06629: Behavioral-Social Assessment And Data-Based Decision Making 3 s.h.
Prerequisites: SPSY 06628
This course will focus on an overview of personality and behavioral assessment. This will include instruments and techniques (standardized and clinical) for obtaining information regarding emotion, behavior, motivation, self concept, and interpersonal and attitude characteristics as distinguished from cognitive abilities. There will be an emphasis on interpreting data from multiple sources to achieve the goal of describing the personality and behavior.
- SPSY 06632: School Psychology: Consultation, Collaboration And Intervention 3 s.h.
Prerequisite: SPSY 06629
The course is designed to help students become familiar with alternative frameworks for educational delivery systems including emerging skills in instructional and collaborative consultation, teaming strategies, curriculum based assessment and measurement, and intervention strategies in the academic, behavior and social areas. Emphasis is placed in viewing the problems children experience in schools from a systems or ecological perspective as opposed to residing within the child. The role of the school psychologist will be enlarged to permit their effective participation in transdisciplinary school based terms.
- SPSY 08545: Home/School/Community Collaboration 3 s.h.
This course is designed to promote students' knowledge, skills and dispositions regarding positive home-school and community collaborations. Topics include the study of families and schools as separate systems, ways in which family systems, theory, diversity, and disabilities affect both a student's learning and behavior, and the families' relationships with schools. The role of educational helping professionals and methods of collaboration between home, school, and community that will facilitate effective comprehensive services will be examined.

Course Descriptions

- SPSY 08547: Professional School Psychology 3 s.h.
The purpose of this course is to introduce students to current theory, research, practices and issues in school psychology and to the code of ethics that guides the field. Particular emphases are conceptual, professional, legislative, legal and ethical issues, and emerging problems in school psychology. Students will apply these issues to their own training and professional development. The student will be introduced to the conceptualization of the school psychologist as a problem-solver who links assessment to intervention and provides both direct and indirect psychological services.
- SPSY 22600: Applied Research Seminar I: School Psychology 3 s.h.
This course will concentrate on the latest developments in the field of school psychology, emphasizing evidence-based practice and research findings. Students will be expected to design an applied research project in the field of school psychology. In addition, students will participate in a school-based field experience to directly observe the role of the school psychology practitioner.
- SPSY 22601: Applied Research Seminar II: School Psychology 3 s.h.
Prerequisite: SPSY 22600
This course will concentrate on the latest developments in the field of school psychology, emphasizing evidence-based practice and research findings. Students will conduct an applied research project in the field of school psychology. In addition, students will demonstrate their knowledge in school psychology through a comprehensive assessment.
- SPSY 22623: Internship In School Psychology 3 s.h.
Prerequisite: SPSY 22630
The 3-credit course entitled 'Internship in School Psychology' is a 300-hour experience completed on a half-time school week basis over four consecutive semesters in a school setting. Students are placed in approved sites for their internship experience where they are supervised by an appropriately credentialed school psychologist. Interns receive at least one hour of field-based supervision per week from a practicing school psychologist, who is responsible for no more than two interns at any given time. Interns are expected to attend scheduled Internship classes on the Rowan University campus. To complete the EdS in School Psychology and to be eligible for NJ Department of Education certification as a School Psychologist, students must complete 12 credits of Internship in School Psychology totaling 1200 hours of field experience.
- SPSY 22630: Practicum In School Psychology 3 s.h.
This course emphasizes psychoeducational assessment, intervention, and strategies for the student with special needs. Practical experiences in psychoeducational assessment and consultation strategies with students are provided, as well as, with staff and parents. The practical experiences are provided within the Special Educational Services Clinic or other educational/mental health service programs. Instruction as well as supervision is provided as part of this pre-externship experience.
- SPSY 22634: Internship In School Psychology 6 s.h.
This is a full school year internship in School Psychology with placement in a public school. Monthly meetings will focus on discussion of psychological diagnosis, educational remediations and research based upon consideration of case materials related to externship experiences; review of current theoretical and experimental developments in school psychology.
- SPSY 25516: Applied Tests And Measurements 3 s.h.
Emphasis is placed upon data-gathering, the evaluation of data and the use of data in educational measurement. Standardized tests, both group and individual, will be studied.
- ECE 09504: Special Topics in Electrical and Computer Engineering 1 to 3 s.h.
This course covers timely topics in electrical and computer engineering related to engineering practice and/or research.
- ECE 09509: Virtual Reality Systems 3 s.h.
Virtual Reality (VR) Systems covers the architecture and design of current generation systems for creating 3D VR environments. Topics included are application/hardware architecture, pipeline development, geometric transformations in a 3D coordinate system, geometry and pixel shading, lighting systems, texturing and VR development. Students will be exposed to current VR technologies and next generation algorithms. As a graduate level course, students are expected to gain a solid foundation in SLSL shader theory, advanced object oriented design techniques, pathfinding algorithms, and apply these techniques to independent research experience to a problem of their choosing.
- ECE 09521: Fundamentals of Systems Engineering 3 s.h.
Systems Engineering is the interdisciplinary approach and means to enable the realization of today's complex, dynamic products and systems. Individual products such as Cell phones, aircraft, automobiles, computers and even household appliances are made up of parts developed by many people with varied skill sets, often working for different companies and from remote locations. Other systems such as transportation, energy generation and distribution, medical, communications, emergency response and similar are very complex as they are composed of many varieties of products and systems. Systems Engineering is an integrating function that addresses all the disciplines and specialty groups resulting in a structured development process that proceeds from concept to production to operation including maintenance & support, and

ECE 09560: Artificial Neural Networks 3 s.h.
 Artificial Neural Networks covers the design of a variety of popular neural network architectures and their contemporary engineering applications. Neural network architectures that will be studied in detail include the multilayer perceptron, radial basis function, and the Hopfield networks. State-of-the-art software will be used for network design. VLSI implementations of neural networks will be discussed.

ECE 09566: Advanced Topics in Systems, Devices, and Algorithms in Bioinformatics 3 s.h.
Prerequisites:
 Bioinformatics is the field of applying computational techniques, from mathematics, statistics, and machine learning, to the vast amounts of biological - but most specifically genomic - data. While some refer to bioinformatics only in the context of collection, storage, organization and access of such biological data within large databases, this course's view of bioinformatics will include - in fact focus on - systems and devices that generate such data, and development of methodologies and models to analyze the vast quantities of data generated by such systems and devices. The course will provide basic biological background of genomics, will introduce the students to commonly used bioinformatics databases and computational tools (such as search, alignment, and protein visualization tools) used to analyze genomic data from such databases. The focus of the course will be on basic bioinformatics systems and devices, such as high throughput next generation sequencers and genechips, followed by an in-depth discussion on the theory of basic genomic signal processing and computational intelligence techniques used in bioinformatics, including hidden Markov models and optimization algorithms for sequence alignment and gene prediction, clustering and classification algorithms. This course will also provide students with a mechanism to conduct independent research to advance the field through development of novel algorithms and approaches.

ECE 09568: Discrete Event Systems 3 s.h.
Prerequisites: ECE Majors: ECE 09243 Non ECE Majors: Permission of Instructor
 This course introduces fundamentals of discrete event system models and their applications in modeling, control, analysis, validation, simulation, and performance evaluation of computer systems, hardware/software co-design, manufacturing/de-manufacturing processes, communication networks, and transportation, etc. The mathematical and graphical models include graphs, finite state machine, Petri Nets, timed models, stochastic timed models, and Markov chains, etc. As a graduate level course, it also provides students with a mechanism (a) to conduct independent research on advanced and contemporary DES topics, including higher-level Petri Nets, finite automata based supervisory control, and Petri Nets in job shop scheduling, etc; and (b) to develop novel models and algorithms for DES.

ECE 09569: System-On-Chip Verification 3 s.h.
Prerequisite: ECE Majors: ECE 09243 Non ECE majors: Permission of Instructor
 This course introduces students to a variety of state-of-the-art hardware design verification methods, including traditional functional simulation, assertion-based verification and a subset of formal verification techniques. Topics covered include functional simulation, coverage metrics, testbench design and automation, assertion-based verification, and property specification language (PSL). As a graduate level course, students are expected to gain a solid foundation in current, practical chip verification techniques, underlying theory, and significant independent research experience applying the techniques, particularly formal verification methods, to a real problem of their own choice.

ECE 09571: Instrumentation 3 s.h.
 Elements of instrumentation systems are treated including transducers, signal conditioning, and signal processing. Elements of modern instrumentation systems including standards (IEEE-488, SCPI) and smart sensors are considered.

ECE 09572: Advanced Smart Grid 3 s.h.
Prerequisites: ECE 09342 and ECE 09321
 The ways in which electricity is generated, transmitted, distributed, stored, and used, are the subject of revolutionary and evolutionary changes compared to the electricity grid we have today. Smart Grid goals include the improvement of grid reliability, reduction in outages, faster return on service, ability to integrate a broad range of renewable energy sources, and to include customers in the ability to effect load decisions based on grid demand and energy pricing. This course will address grid fundamentals, tools and technologies, and then address major Smart Grid subsystems including conventional and alternative generation, storage technologies, transmission and distribution systems, standards, demand management, real-time pricing, grid stability, control technologies, measurement including Smart Sensors and Advanced Metering Infrastructure. Physical and cyber vulnerabilities will also be addressed. The course will include a project to reinforce Smart Grid elements.

ECE 09573: Advanced Smart Sensors 3 s.h.
Prerequisites: ECE 09342 AND ECE 09311 AND ECE 09321
 Elements of Smart Sensors and Smart Sensor systems are treated. Instrumentation fundamentals covered include transducers, signal conditioning, and data acquisition, communication, along with important considerations and associated standards. Relationship of smart sensors to integrated system health monitoring (ISHM) and similar Intelligent Sensor applications are addressed. The course will include a project to reinforce Smart Sensor elements and provide opportunities for research in the field.

advanced research intensive course, this class will involve a thorough literature search and review, followed by proposing, executing and presenting results on a novel real-world computational intelligence problem that is of research interest to the student. Students will be encouraged to publish the outcomes of their research project.

ECE 09704: Special Topics for Doctoral Students in Electrical Engineering 1 to 6 s.h.

This class provides timely coverage of specific advanced and emerging topics in Electrical and Computer Engineering, and it is intended for doctoral students. Special topics courses may be traditional classroom-based courses as well as research-related courses supervised by specific advisers. This class may be taken multiple times when offered with a different special topics content.

ENGR 01601: Effective Teaching in Academic, Corporate and Government Settings 3 s.h.

Prerequisite(s): Ph.D. student status

This unique course, team-taught by faculty and professionals in education, engineering and industry, provides students with an in-depth exploration of effective teaching practices in academic, corporate, and government settings. Students will gain a broad view of the role and function of teaching and oral presentation, as well as how to communicate effectively in these settings. Specifically, this course will introduce instructional methods and strategies, adult learning theory and implications for effective teaching, documenting and assessing student learning, and how to improve instruction in academic, corporate, and government settings. Several real-world scenarios will be discussed and simulated, including preparing academic courses and corporate training packages, assessing audience background and setting appropriate technical rigor and level, building classroom / meeting room / presentation room management skills, conflict avoidance and resolution in such settings; effective strategies for delivering technical content at meetings and conferences, and answering audience questions that may be adversarial in nature. The course will provide readings, discussions, assignments, and most importantly ample opportunities for practice teaching, including a semester-long apprenticeship with Engineering faculty, allowing the student to experience all aspects of teaching and classroom management. The course will also feature guest speakers from industry and government agencies providing unique perspectives for effective teaching and presentation at such settings.

ENGR 01501: Special Topics In Engineering 1 to 3 s.h.

This course is designed to introduce students to emerging topics in the engineering field. Consent of the instructor is necessary, and prerequisites are determined by the nature of the topic.

ENGR 01510: Finite Element Analysis 3 s.h.

Fundamental concepts for the development of finite element analysis are introduced. The element stiffness matrices are developed using shape functions defined on the elements. Aspects of global stiffness formation, consideration of boundary conditions, and nodal load calculations are presented. Mesh division and problem modeling considerations are discussed in detail. Topics of scalar field problems and natural frequency analysis are covered. Computer applications are included.

ENGR 01511: Engineering Optimization 3 s.h.

The formulation and modeling aspects of engineering optimization problems are presented. These steps involve setting up of the objective function to be minimized and the resource and system constraints to be satisfied. Solution techniques using gradient based methods, zero order methods, and penalty techniques are discussed.

ENGR 01597: Engineering Graduate Research 1 to 3 s.h.

The objective of this course is for students to define and conduct graduate-level research with the supervision of their graduate advisor.

ENGR 01598: Master's Thesis Continuation 1 s.h.

Prerequisite(s): 6-9 Credits of "Master's Research and Thesis" (ENGR 01599) and Department Approval

Continuation of supervised research leading to a master's thesis.

ENGR 01599: Master's Research and Thesis 1 to 9 s.h.

This course will provide a meaningful one-on-one research experience under the direction of an engineering faculty advisor. The research topic will be chosen by mutual agreement of the student and his or her adviser. The course will include a thorough literature search and review, the development of a clear and concise problem statement, consultations with other faculty and professional experts, and the derivation of publishable results.

ENGR 01700: Tough Talk: Graduate Seminar in Engineering 0 s.h.

Prerequisites: Graduate or Ph.D. standing

One of the primary goals of the Ph.D. in Engineering program is to teach the candidate how to identify unsolved problems in engineering, formulate a hypothesis for a feasible solution, design experiments or analysis methodologies to implement the proposed solution, analyze results and draw conclusions, all of which require critical and analytical thinking and problem solving skills, command of the general body of knowledge as well as state-of-the-art in the area of interest. This is seminar course where every week on graduate student or guest speaker will present the state-of-the-art in his/her area of research interest.

This course will allow the presenter to describe an unsolved problem of interest, complete a thorough literature review about related work, and/or present his/her work in that area, and receive comments, suggestions and critical feedback from the audience. The course will also allow audience members to learn a new topic, provide feedback to their peers, and be familiar with the breadth of research taking place in the college, while providing a forum for general exchange of ideas within the college, bringing research active college community together for lively discussions.

ENGR 01702: Strategic Technical Writing and Winning Grant Proposals 2 s.h.

Prerequisite: Successful completion of the Ph.D. Qualifier Examination

Effective technical writing is perhaps one of the most critical skills a Ph.D. engineering graduate needs to have regardless of the career path chosen upon graduation. Whether writing research papers, technical reports, or grant proposals, the ability to convey technical engineering knowledge in an effective, understandable, elegant and concise manner is an important skill. This class will provide the general guidelines, best practices, and most importantly specific strategies for technical writing for some of the most common venues and audiences, namely writing technical papers for engineering conferences and journals - including writing rebuttals to reviewers - technical reports and grant proposals. The latter includes specific strategies for a variety of different sponsors that fund engineering related research, including industrial sponsors, government and military agencies, foundations as well as intra-company funding sources. The deliverables of this class includes an actual conference or journal paper and a small scale grant proposal-ready to be submitted - based on student's area of research.

ENGR 01798: Doctoral Dissertation Continuation 1 s.h.

Prerequisites: 12 or more Credits of "Doctoral Research and Dissertation" (ENGR 01799) & Department Approval

Continuation of supervised research leading to a doctoral dissertation.

ENGR 01799: Doctoral Research and Dissertation 1 to 9 s.h.

Prerequisite: Ph.D. student status

One of the primary goals of the Ph.D. in Engineering program is to teach the candidate how to identify unsolved problems in engineering, formulate a hypothesis for a feasible solution, design experiments or analysis methodologies to implement the proposed solution, and analyze results and draw conclusions. All of these require critical and analytical thinking and problem solving skills. Achieving such a goal requires methodical and persistent effort over a long period of time for obtaining command of the general body of knowledge as well as the state-of-the-art in the area of interest, followed by identifying an unsolved problem that is worth solving, followed by developing and verifying solution(s) and finally disseminating the new knowledge created by this process. Since this is a long term process, it can only be achieved by dedicating significant time and effort to this process. Doctoral Research and Dissertation is a variable-credit independent study based research course that is designed to provide the student necessary time and guidance to help him/her achieve the aforementioned goals. Students are expected to take appropriate number of credits of this class each semester they are materially involved with doctoral research, culminating with preparation, execution, and defense of the Dissertation. Each section of this course is associated with a faculty member, and each student will take that section of this course that is associated with his/her Ph.D. Advisor, who will be guiding the student's doctoral research.

ENGL 02116: Introduction to Global Literatures in English 3 s.h.

This course introduces essential critical methods for the study of literature in relation to major works of global literatures written in English. Though the choice of specific texts will vary depending upon the instructor, this course focuses on works of literature in English beyond those written in America and the British Isles. It fulfills the "Global Literacy" requirement of the Rowan Core.

ENGL 02605: Graduate Studies In Adolescent Literature 3 s.h.

This course will introduce students to a range of literature written for, read by, and/or taught to adolescents. Students will analyze the literary works from a variety of theoretical perspectives (including ecological, feminist, formalist, Marxist, post colonial, psychoanalytical and queer) to think about the cultural construction of adolescence and adolescents' relationship to power. This course may not be offered annually.

ENGL 02617: Teaching Shakespeare 3 s.h.

This course begins by examining representative plays by Shakespeare by using the approaches of "Understanding by Design." Next, it considers how to teach the plays with those approaches, especially "essential questions" and "backward design." This course may not be offered annually.

ENGL 02638: Teaching World Literature 3 s.h.

This course will mix theory and non-Western literature in order to provide the students with a critical vocabulary they can then employ in their own pedagogy. The course will explore a number of questions about nation, individual, community, time, space, language, and other topics through poetry, novels, drama, and short stories from Africa, Asia, and South America.

Course Descriptions

ENGL 05301: American English Grammar 3 s.h.
This course emphasizes traditional grammar and seeks to give the student a practical understanding of the structure of contemporary American English grammar.

ENGL 05501: Teaching American English Grammar 3 s.h.
Teaching American English Grammar provides an introduction to the history of the English language, including a short history of grammar instruction; a review of traditional grammar, along with an overview of other grammatical approaches to English; and the opportunity to explore strategies of teaching grammar to both native and non-native speakers of English, with attention to how grammatical choices affect rhetorical style and effectiveness.

GEOG 06501: Independent Study Geography 3 s.h.

GEOG 06553: Workshop In Geography 1 to 3 s.h.
This course is designed for in-service teachers who wish to further develop their competencies in new teaching techniques and technologies in geography, including computer-assisted instruction and computer cartography. Contemporary geographic topics will be explored within a regional context of each major world region. Students will actively participate in applying new concepts, current data, and innovative techniques in geography by designing and presenting sample lessons at their grade level. (Summer only)

GEOG 16100: Earth, People, And The Environment 3 s.h.
This course provides a broad survey of the geographic approach to knowledge about the world and the field of geography. The course introduces the natural order of the physical environment, human modification of environments, organization of society, and regional studies. The course places particular emphasis on contemporary environmental problems and the role of geography in helping to understand and address local, regional, and global issues.

GEOG 16110: Cultural Geography 3 s.h.
This course focuses upon the varied and changing cultural environments of the world. Through a synthesis of data from many disciplines (i.e., anthropology, ecology, earth sciences, history, etc.), major cultural differences and areal patterns are identified and analyzed.

GEOG 16140: World Regional Geography 3 s.h.
A survey of the entire world that uses the regional approach to geographical analysis, this course provides students with a basic foundation of geographic knowledge and concepts applicable to the contemporary world. It stresses resource distribution, environmental characteristics, population problems, food and water supplies, cultural variations and developmental strategies.

GEOG 16160: Intro To Mapping And Geographic Information Sciences 3 s.h.
This course provides the student with the conceptual tools required for intelligent and critical use, interpretation and analysis of maps. In addition, the course furnishes the student with an introduction to and overview of the mapping sciences. Students learn the concepts, methods, and techniques common to the several branches of the mapping sciences and are introduced to cartography, satellite remote sensing, computer-assisted cartography, and geographical information systems. Because of its increasing importance, special emphasis is placed on geographical information systems.

GEOG 16260: Fundamentals of Geographic Information Systems (GIS) 4 s.h.
Prerequisites: GEOG 16160
Fundamentals of Geographic Information Systems introduces students to the concepts and applications associated with creating, maintaining, analyzing, displaying, and interpreting geospatial data. Through the completion of activities and assignments, students gain experience with the fundamental tools for geospatial analysis, coupled with the knowledge of how best to apply them to real-world issues in the natural and human landscapes.

GEOG 16261: Cartography 3 s.h.
Prerequisite: GEOG 16160
This course studies the elements of cartography with emphasis on the map as a basic form of communication. It explores contemporary design concepts and various graphic techniques. Students create cartographic compositions using the latest in geographical information system and cartographic software using the facilities of the department's computer teaching laboratory.

Course Descriptions

GEOG 16591:	Independent Study Geography	3 s.h.
GEOG 16661:	Geovisualization	3 s.h.
<i>Prerequisite: GEOG 31660</i>		
This course explores geographic visualization (Geovisualization) and related cartographic and graphic design techniques. The course content is primarily focused on GIS-based spatial planning, design, analysis, and 2D/3D visualization techniques. Students are exposed to the basic knowledge of using GIS and Geovisualization in site analysis, site design, public participatory GIS (PPGIS), and design charrettes. The concepts of qualitative Geovisualization and other emerging tools and techniques are also introduced.		
GEOG 31660:	Fundamentals of Geographic Information Systems	4 s.h.
This course introduces students to the concepts and applications associated with creating, maintaining, analyzing, displaying, and interpreting geospatial data. Through the completion of activities and assignments, students gain experience with the fundamental tools for geospatial analysis, coupled with the knowledge of how best to apply them to real-world issues in the natural and human landscapes. This course is suitable for planners, geographers, and relevant professionals.		
PLAN 31280:	Foundations of Planning & Environmental Design	3 s.h.
This course provides students with a conceptual foundation to the field of planning. Topics include the history and development of planning, the politics of planning, planning analysis and implementation, urban design, environmental planning and planning implementation process and management. Particular emphasis is placed on the current trends in the field including ecological based planning, redevelopment and sustainable communities.		
PLAN 31383:	Metropolitan/Regional Planning	3 s.h.
<i>Prerequisite: PLAN 31280</i>		
This course studies the philosophy, history, techniques, and problems of metropolitan and regional planning. Although it focuses on large scale-planning in the United States, the course makes some comparative analysis of planning in other countries. It emphasizes geographic techniques in regional analysis, as well as the roles of federal, state, and local agencies in planning. Students learn and use simulation and gaming techniques in the preparation of regional plans. This course may not be offered annually.		
PLAN 31386:	Land Use And Conservation	3 s.h.
<i>Prerequisite: PLAN 31280</i>		
This course examines people's changing perceptions of the economic use potential of land focusing on how land is a combination of physical, economic, political and cultural interactions. The course explores the basics of land use law, property rights, land use conflicts and the various avenues for land conservation and open space preservation.		
PLAN 31580:	Introduction to Planning: Past, Present, and Future	3 s.h.
This course focuses on the comprehension, representation, and use of ideas and information in the planning field, including appropriate perspectives from history, social science, and the design professions. Course content offers the primary reasons planning is undertaken by communities, cities, regions, and nations, and the impact planning is expected to have. Specific topics include history of human settlements, planning history, planning theory, global dimensions of planning, and planning processes to influence the future.		
PLAN 31587:	Graduate Seminar in Food Systems Planning	3 s.h.
This graduate level course explores the food supply chains within the US that brings food from the field to the table and describes the ways that planners are utilizing traditional planning tools to build more sustainable and resilient regionally based food systems. Students will compare both conventional and alternative supply chains identifying the benefits and limitations of both, as well as examine the policy and programmatic initiatives taken by planners to maximize these benefits and minimize these limitations. Additional topics include land conservation, food access, urban agriculture and economic development.		
PLAN 31589:	Environment and Sustainability Planning	3 s.h.
<i>Prerequisite: PLAN 31580</i>		
This course offers a broad understanding of sustainability and environmental factors in planning from a local to global perspective. It explores environmental, economic, and social/political factors that contribute to sustainable communities, and investigates the role of planning processes in the creation of sustainable futures. The course examines planning's implications on individual and community health within the built environment. Course materials also discuss key issues in equity, diversity, and social justice that emphasize planners' role in expanding choice and opportunity for all.		

Course Descriptions

PLAN 31590: Research Methods in Planning 3 s.h.

This course introduces quantitative and qualitative methods and modeling tools, and their applications to planning research and planning practice, including forecasting, policy analysis, and design of projects and plans. Students learn how to pose clear and researchable questions relevant to urban and regional planning, collect and process data, analyze data using quantitative or qualitative research tools, and present results using clear, accurate, and compelling text, graphics, and maps to a variety of audiences, including other planners, citizens, and public or elected officials. They also learn tools for assembling and analyzing ideas and information from prior practice and scholarship.

PLAN 31593: Planning Communication 3 s.h.

The aim of this course is to prepare students for planning and relevant professions by ensuring that they are aware of and trained in proper professional communications standards. Students recognize the need for appropriate outreach strategies for communicating with the public and gain knowledge to develop and utilize tools for effective in-person or virtual stakeholder engagement. In addition to basic written, oral, and graphical communication skills, this course introduces skills related to leadership, team building, facilitation, mediation, community motivation development, and strategic decision making.

PLAN 31685: Planning Practice, Law, and Ethics 3 s.h.

Prerequisite: PLAN 31580

This three-module course prepares students for the professional planning field by introducing topics related to planning practice, planning law, and planning ethics. The first module is focused on the roles of officials, stakeholders, and community members in planned change. It also introduces economic, infrastructure, social, and cultural factors to urban and regional growth and change. The second module provides legal and institutional contexts within which planning occurs. The final module presents key issues of planning ethics and related questions of the ethics of public decision-making, research, and client representation.

PLAN 31686: Community Planning and Site Design 3 s.h.

Prerequisite(s): PLAN 31580 and PLAN 31589

This course focuses on the design, arrangement, appearance, and functionality of building sites, neighborhoods, towns and cities, as well as the shaping and uses of safe public spaces. It explores sustainable design principles, techniques, and practices related to physical or spatial planning and urban design. Students explore design elements at both macro and micro scales that make up public and private realms of the built environment and learn to incorporate those elements in workable urban design projects and community plans.

PLAN 31695: PLANNING STUDIO 6 s.h.

Prerequisite(s): PLAN 31580 and PLAN 31590 and PLAN 31593 and GEOG 31660 and PLAN 31589 and PLAN 31685 and PLAN 31686

Graduate planning students produce their capstone projects in this studio. Under direct supervision of planning faculty, students undertake a planning project in cooperation with a local, regional, national, or international client. Students apply their relevant knowledge and skills gained from all required as well as elective courses in this project. They work in small groups focusing on different aspects of planning. Whenever appropriate, students get engaged with community stakeholders and assess their interests. The final product of this studio is a professional-level plan or a policy report.

GEOL 01701: Seminar in Geology 4 s.h.

The course is focused on teaching students how to critically evaluate scientific papers or current research endeavors to effectively articulate in writing and through oral presentation using precise language founded in science the content of papers. Students will be given various homework assignments that include but are not limited to discussion on papers or on other student presentations. This is a required course that all first year PhD students in Geology.

GEOL 01702: Avanced Seminar in Geology 4 s.h.

Prerequisite: GEOL 01701

The course is an extension of GEOL 01701 with a major addition. The course meets weekly with different topics presented each week. Students will be required to read a specific scientific paper with one or more students presenting on the merits and shortcomings of the research presented in the paper. The course is focused on teaching students how to critically conduct original research and present their research through written and oral mediums. Students are required to conduct new research, either in the laboratory or through literature reviews and present their findings for the entire cohort and professors and critical review each other's work through constructive feedback. This is a required course that all first year PhD students in geology must take and is equivalent to a laboratory course.

Course Descriptions

GEOL 01703: Proposal Writing and Grant Management in Geology 3 s.h.

In this course students learn about writing a proposal, the importance of setting clearly defined research goals, expected outcomes, milestones, statements of work, establishing a proper budget, and how to sell their research to a variety of funding sources. In addition, students learn how to manage a grant or contract once it has been awarded to a home institution, how to work effectively with a sponsored research office, the importance of progress reports in the form of abstracts and refereed papers, and closing out a grant. Students also learn how to critical review proposals. This is a required course that all first year PhD students in geology must take and is equivalent to a laboratory course.

GEOL 01704: Communication and Ethics in Geology 3 s.h.

In this course students learn about different methods of communication within science as well as the ethics of science and the workplace. The course explores the writing of different types of scientific papers, books and book chapters, the different kind of oral presentations, outreach to different audiences, and the overall importance of an ethical research, teaching, and outreach programs in science. This is a required course that all first year PhD students in geology must take and is equivalent to a laboratory course.

GEOL 01705: Graduate Colloquium 2 s.h.

In this course students are exposed to research in many areas of the School of Earth and Environment through its established colloquium series. This is a required course that all first year PhD students in geology must take.

GEOL 01706: Advanced Graduate Colloquium 2 s.h.

Building on the experience of GEOL 01705, the students will collectively as a course create and successfully run a colloquium series within geology. In this course students are exposed to research in many areas of research, how to invite speakers, how to successful operate a lecture series as a group. This is a required course that all first year PhD students in geology must take.

GEOL 01710: Fundamental Research 1 6 s.h.

In this course students will focus developing their dissertation research culminating in a successful candidacy exam (PhD dissertation proposal defense) at the end of the second year. This is a required course that all second year PhD students in geology must take.

GEOL 01711: Fundamental Research 2 6 s.h.

Prerequisite: GEOL 01710

This course is a continuation of Fundamental Research 1. In this course students will focus developing their dissertation research culminating in a successful candidacy exam (PhD dissertation proposal defense) at the end of their second year. This is a required course that all second year PhD students in geology.

GEOL 01712: Topics in Graduate Geology 3 s.h.

This course changes from semester to semester and will be topical in nature. The topics that will be covered will, in part, depend on the student cohort and the availability of professors. This is a required course that all second year PhD students in geology must take with two semesters required. The course is designed to help prepare students for their candidacy exams and dissertation research.

GEOL 01730: Dissertation Research in Geology 5 s.h.

Prerequisites: Successful completion of PhD qualification and candidacy examination.

In this course students will focus their attention on their dissertation research, the writing of papers to be published, and their PhD dissertation. This is a required course that all PhD students in Geology must take.

MBS 00501: Biochemistry and Molecular Biology 3 s.h.

We will be using Macmillan Launchpad as our information resource. I have already set up a course at the following website. This is an all-inclusive site that contains the E-book, learning exercises and quizzes. You will have to purchase a 6-month access for this site. Go to <http://www.macmillanhighered.com/launchpad/tymoczko3e/8162223> This course will cover the broad topic of biochemistry. This starts with a basic understanding of thermodynamics and chemical bonds and leads into amino acids, proteins and enzymes as well as carbohydrate and lipid structure and function. We will also cover intermediary metabolism and provide a perspective of disease states. The intent is to learn biochemistry by studying and learning how proteins underlie human disease.

MBS 00502: Cell Biology 3 s.h.

This course is focused on biology and physiology of the cell and is organized around the central theme of homeostasis – how the cells adopt to various environmental changes while maintaining their internal constancy necessary for all tissues and organs to function. It is a course for both the basic scientists who seek general principles about cellular function, and the students preparing for health-related careers who wish to apply fundamental knowledge on cell biology to understand the molecular mechanisms of cellular dysfunction in human diseases.

MBS 00614: Molecular Mechanisms of Aging 2 s.h.
Prerequisite(s): MBS 00501, MBS 00502, MBS 00503 (Must pass each course)

The major goal of this course is to acquaint second-year Master's students with fundamental information regarding the aging-associated molecular pathways and to update them on the most recent advancements in the studies of molecular mechanisms of aging. The emphasis will be given to the discussion of the most popular aging theories, experimental attempts to improve longevity in animal models, and their critical analysis from the scientific standpoint. During the course, the students will be provided a solid understanding of the most popular subject in translational science that attracts billions of research dollars but is seldom taught as a conceptual course. It is a course for both the basic biomedical scientists who seek to understand the nature of aging and aging-associated processes, and the students preparing for health-related careers who are eager to expand their knowledge on "diseases and conditions associated with growing older, in order to extend the healthy, active years of life" (from the National Institute of Aging Mission Statement).

MBS 00615: Case Studies in Biology & Medicine 3 s.h.
Prerequisites: MBS 00501, MBS 00502, MBS 00503

This course is intended to help the student advance in the learning process. We will analyze topics of biological and medical interest and attempt to recognize and apply thought processes to understanding the biological phenomena or the clinical situation. The goal of this course is to go through case studies of biological and clinical significance and develop an appreciation for the levels of thought that are required to understand the underlying mechanisms and pathways and communicate about the topic under consideration.

MBS 00659: GSBS Maintaining Matriculation 0 to 9 s.h.

A Master of Biomedical Science program student who requires an additional semester to complete a course, especially a RowanSOM course that begins in the fall and ends in the spring, may register for GSBS Maintaining Matriculation during the subsequent semester. This course will carry a variable credit weight of 0-9 credits (5 credits are part-time status; 9 credits are full-time status). The GSBS office will be responsible for certifying that a student is completing a course in progress on a part-time or full-time basis commensurate with the number of credits they are registered for in the previous semester. The student will not be charged tuition or a fee for continuation regardless of the number of credits for which they are registered. A student can only register for GSBS Maintaining Matriculation for one (1) semester. This course is not graded.

MPI 00504: Topics in Molecular Pathology & Immunology 4 s.h.

This course provides the student with a factual understanding of key host/pathogen elements related to the development of human disease, in an introductory manner. The course will cover major human pathogens and their disease-causing mechanisms (Microbiology). In addition, the human immune system is presented in the context of host-defense against infectious and malignant disease (Immunology). Mechanisms of tumorigenesis and metastasis are explored (Cancer), as are the metabolic mechanisms underpinning diabetes, obesity and related disorders (Metabolic Diseases). Finally, shorter elements describe the creation, validation and standardization of new molecular diagnostic tools (Diagnostics); the critical (statistical) evaluation of experimental data (Statistics); important elements of high-throughput screening and early stage drug discovery (Drug Discovery); an introduction to the discovery, mechanism of action, and resistance to antimicrobial agents (Antimicrobial Agents); as well as a discussion of the genetics of cancer and other diseases (Medical Genetics). Upon completion of the course, students will have gained a broad overview of the theoretic and practical aspects of the subjects that underlie the laboratory courses they may take in the future.

ATR 00105: Introduction to Healthcare in Sports Medicine 3 s.h.

This course focuses on the healthcare team and delivery systems. Students will learn about legal responsibilities, ethical issues, safety, infection control, communication, interpersonal behaviors, wellness, and disease as it pertains to Sports Medicine and providing optimal healthcare.

ATR 00220: Pathology and Evaluation of Orthopedic Injuries II 3 s.h.
Prerequisite(s): (ATR 00219 or PHED 35219) Corequisite: ATR 00239

This course provides an examination of the etiology, epidemiology, pathology and assessment of injuries and illnesses to the upper extremity, head, axial skeleton, chest, and thorax. Structural, functional and surface anatomy will be reviewed. In addition to didactic classroom time, students are also instructed, given time to practice and evaluated on pertinent athletic training psychomotor competencies and clinical proficiencies within a practical laboratory experience. There is an observational field experience associated with this class.

ATR 00339: Foundations in Sports Medicine II 3 s.h.
Prerequisite: ATR 00210

This is the second course in a series that will provide students with foundational knowledge that will be useful in preparing them to apply to the Athletic Training Program. This course will teach students principles of a systematic clinical evaluation, nutrition and its role in tissue healing, injury prevention and performance optimization, and therapeutic interventions.

Course Descriptions

ATR 00340: Foundations in Sports Medicine III 3 s.h.
Prerequisite: ATR 00339

This is the third course in a series that will provide students with foundational knowledge that will be useful in preparing them to apply to the Athletic Training Program. This course will teach students principles of prophylactic strapping and bracing, research methodology, and basic pharmacology. It will also cover the professional and dispositional requirements of the Professional Preparation component of the Athletic Training Program.

ATR 00341: Clinical Techniques in Athletic Training IV 2 s.h.
Prerequisite(s): (ATR 00340 or PHED 35340) *Corequisite(s):* ATR 00361

This course, designed for second semester seniors, will review and evaluate clinical proficiencies previously discussed in General Medical Conditions and Pharmacology and related topics relevant to previous course work. Students meet once per week in the Athletic Training Laboratory to practice and discuss topics pertinent to their clinical assignment. The clinical assignment enables students to develop and assimilate patient care skills under the direct supervision of a certified athletic trainer and/or approved clinical instructor within the athletic training room, exposure to intercollegiate athletics and/or at approved affiliated sites.

ATR 00347: Applied Biomechanics 3 s.h.
Prerequisite: HES 00346

This course is designed to acquaint students with the fundamental principles involved with biomechanics and human movements. This course will discuss the kinetic and kinematics concepts and how they are applied to balance, posture, locomotion and functional activity.

ATR 00358: Residency in Athletic Training I 3 s.h.
Prerequisite(s): (ATR 00220 or PHED 35220) and acceptance in the Professional Phase of the Athletic Training Education program
Corequisite(s): ATR 00338

This clinical education course, designed for first semester juniors, will review and evaluate, within a clinical assignment, those clinical proficiencies discussed in previous and concurrent course work using a learning-over-time model. The clinical assignment enables students to develop and assimilate patient care skills under the direct supervision of a certified athletic trainer and/or approved clinical instructor within the athletic training room, exposure to intercollegiate athletics and/or at approved affiliated sites. During this course, the student will be formally evaluated by an Approved Clinical Instructor only. This course must be taken and successfully completed in conjunction with ATR 00338 Clinical Techniques in Athletic Training I before a student may continue to matriculate through the Athletic Training Education Program.

ATR 00359: Residency in Athletic Training II 3 s.h.
Prerequisite(s): (ATR 00338 or PHED 35338) and (ATR 00358 or PHED 35358) *Corequisite(s):* ATR 00339

This clinical education course, designed for second semester juniors, will review and evaluate, within a clinical setting, those clinical proficiencies discussed in previous and concurrent course work using a learning-over-time model. The clinical assignment enables students to develop and assimilate patient care skills under the direct supervision of a certified athletic trainer and/or approved clinical instructor within the athletic training room, exposure to intercollegiate athletics and/or at approved affiliated sites. During this course, the student will be formally evaluated by an Approved Clinical Instructor only. This course must be taken and successfully completed in conjunction with ATR 00339 Clinical Techniques in Athletic Training II before a student may continue matriculating through the Athletic Training Education Program.

ATR 00360: Residency in Athletic Training III 3 s.h.
Prerequisite(s): (ATR 00339 or PHED 35339) and (ATR 00359 or PHED 35359) *Corequisite(s):* ATR 00340

This clinical education course, designed for first semester seniors, will review and evaluate, within a clinical setting, those clinical proficiencies discussed in previous and concurrent course work using a learning-over-time model. The clinical assignment enables students to develop and assimilate patient care skills under the direct supervision of a certified athletic trainer and/or approved clinical instructor within the athletic training room, exposure to intercollegiate athletics and/or at approved affiliated sites. During this course, the student will be formally evaluated by an Approved Clinical Instructor only. This course must be taken and successfully completed in conjunction with ATR 00340 Clinical Techniques in Athletic Training III before a student may continue matriculating through the Athletic Training Education Program.

ATR 00361: Residency in Athletic Training IV 3 s.h.
Prerequisite(s): (ATR 00340 or PHED 35340) and (ATR 00360 or PHED 35360) *Corequisite(s):* ATR 00341

This clinical education course, designed for second semester seniors, will review and evaluate, within a clinical setting, those clinical proficiencies discussed in previous and concurrent course work using a learning-over-time model. The clinical assignment enables students to develop and assimilate patient care skills under the direct supervision of a certified athletic trainer and/or approved clinical instructor within the athletic training room, exposure to intercollegiate athletics and/or at approved affiliated sites. During this course, the student will be formally evaluated by an Approved Clinical Instructor only. This course must be taken and successfully completed in conjunction with ATR 00341 Clinical Techniques in Athletic Training III before a student may continue matriculating through the Athletic Training Education Program.

Course Descriptions

ATR 00405: Organization & Administration in Athletic Training 3 s.h.
Prerequisite(s): (ATR 00339 or PHED 35339)

This lecture/laboratory course is designed to meet the entry level competencies for the athletic training student in the area of organization and administration of athletic training. It covers liability, budgeting, athletic training facility design, insurance, administration of medical record keeping systems, data tabulation and interpretation, emergency transportation systems, athletic training facility management, impact of state and national governing body regulations, athletic injury insurance administration and communication, conflict resolution and mediation.

The senior level course is designed to meet educational competencies in pharmacology and general medicine for the undergraduate athletic training student. This course will focus on issues in pharmacology and general medicine pertinent to the allied health profession of athletic training. Issues such as the drug approval process, side effects of medications, general medical evaluation will be explored during this course. There is a general medical clinical field experience with the athletic training programs medical director associated with this course.

ATR 00447: Therapeutic Modalities in Athletic Training - Laboratory Experiences 2 s.h.
Prerequisite(s): (ATR 00220 or PHED 35220) Corequisite(s): ATR 00475

This laboratory course is designed to teach the psychomotor and clinical proficiency skills necessary to develop psychomotor skills relevant to the use of Therapeutic Modalities. This laboratory course must be taken and successfully completed in conjunction with Therapeutic Modalities in Athletic Training before a student may continue matriculating through the Athletic Training Education Program.

ATR 00475: Therapeutic Modalities for Athletic Training 3 s.h.
Prerequisite(s): (ATR 00220 or PHED 35220) and (ATR 00329 or PHED 35239) Corequisite(s): ATR 00447

This course focuses on the cognitive, affective and psychomotor competencies involved in developing appropriate therapeutic modality programs for the injured person. This course uses current research to discuss the theory and clinical applications of all potential modalities used in the athletic training room. This course implements a problem-solving approach for the return of functional integrity to the injured person through the use of therapeutic modalities. A laboratory experience is part of this class.

ATR 00476: Therapeutic Exercises in Athletic Training - Laboratory Experiences 2 s.h.
Prerequisite(s): (ATR 00475 or PHED 35475) Corequisite(s): ATR 00478

This laboratory course is designed to teach the psychomotor and clinical proficiency skills necessary to develop psychomotor skills relevant to the use of Therapeutic Exercises. This laboratory course must be taken and successfully completed in conjunction with Therapeutic Exercises in Athletic Training before a student may continue matriculating through the athletic Training Education Program.

ATR 00477: Psychosocial Aspects of Physical Activity 3 s.h.
Prerequisite(s): PSY 01107 and (ATR 00479 or PHED 35479)

This course, designed for seniors in Athletic Training, addresses several CAATE proficiencies related to the psychosocial aspect of physical activity and injury. Topics include but are not limited to theories related to the psychological and emotional aspects of trauma and forced inactivity, the use of motivational activities towards rehabilitation, basic principles of mental preparation, relaxation, and visualization, as well as theories and techniques of interpersonal and cross-cultural communication among athletic trainers, their patients, and others involved in the health care of the patient.

ATR 00478: Therapeutic Exercises in Athletic Training 3 s.h.
Prerequisite(s): (ATR 00475 or PHED 35475) and (ATR 00447 or PHED 35447) Corequisite(s): ATR 00476

This course covers the cognitive, affective and psychomotor competencies involved in developing appropriate rehabilitation exercise protocols for the injured person. This course uses current research to discuss the physiological and biomechanical concepts involved in the clinical practice of rehabilitation. This course implements a holistic and problem-solving approach for the return of functional integrity to the injured person. A laboratory experience is part of this class.

ATR 00479: Pharmacology and General Medicine in Athletic Training 3 s.h.
Prerequisite(s): (ATR 00478 or PHED 35478)

This senior level course is designed to meet educational competencies in pharmacology and general medication for the undergraduate athletic training student. The course will focus on issues in pharmacology and general medicine pertinent to the allied health profession of athletic training. Issues such as the drug approval process, side effects of medications, general medical evaluation will be explored during this course. There is a general medical clinical field experience with the athletic training program's medical director associated with this course.

Course Descriptions

- ATR 00505: Principles in Evidence-based Practice 3 s.h.
Prerequisite: Acceptance into the Athletic Training Program
This course addresses the role of research in professional Athletic Training practice including conduct of research, research sources utilization and dissemination, methodology, data analysis and principles and models of evidence-based practice.
- ATR 00510: Cadaver Anatomy 4 s.h.
Prerequisite: Acceptance into the Athletic Training Program
This course offers students the opportunity to identify various structures on cadaver specimens that are related to neuro and musculoskeletal structures and pathologies of the human body.
- ATR 00511: Management of Medical Emergencies 3 s.h.
Prerequisite: Acceptance into the Athletic Training Program
This is a lecture and laboratory course that provides a comprehensive approach to the identification of risk factors, preparation of emergency action plans, and recognition and care of emergency medical conditions including those that may lead to sudden death. Students will gain CPR Certification upon successful completion of curricular requirements.
- ATR 00519: Clinical Assessment I 4 s.h.
Prerequisite(s): ATR 00510 and ATR 00511 and ATR 00505
This course discusses prevention, assessment, diagnosis, and treatment approaches for patients with musculoskeletal pathologies as it relates to the lower extremity and lumbar spine.
- ATR 00520: Clinical Assessment II 4 s.h.
Prerequisite: ATR 00519
This course discusses prevention, assessment, diagnosis, and treatment approaches for patients with musculoskeletal pathologies as it relates to the head, upper extremity, cervical and thoracic spine.
- ATR 00521: Clinical Assessment III 4 s.h.
Prerequisite: ATR 00520
This course discusses knowledge, skills and abilities associated with the prevention, assessment, diagnosis, and treatment approaches for patients with a variety of medical conditions. Students will practice the clinical skills necessary to provide appropriate patient care within this course.
- ATR 00524: Injury Risk Management to Enhance Human Performance 3 s.h.
Prerequisite(s): ATR 00510 and ATR 00511
This course will provide students with the knowledge, skills and abilities that relate to health care systems, injury prevention, prophylactic strapping & bracing, and durable medical equipment. This course will also teach students how to develop assessment plans that detect poor movement strategies and then implement corrective intervention programs to improve movement patterns that will reduce injury risk and maximize performance.
- ATR 00526: Healthcare Management & Quality Improvement 3 s.h.
Prerequisite: ATR 00531
This course will provide students with the concepts and issues related to healthcare management and quality improvement within the clinical setting to enhance patient care. Students will learn the knowledge, skills and abilities in the areas of, but not limited to, healthcare informatics, quality improvement, finance and reimbursement, managed care, professional and governmental regulations, diversity within the workplace, and professional responsibility. These topics will culminate into developing healthcare management strategies using qualitative and quantitative outcomes measures, developing healthcare leadership & communication skills, self-assessment and facility management to advocate best clinical practice for all stakeholders involved in patient care.
- ATR 00530: Pharmacology 3 s.h.
Prerequisite: ATR 00533
This course will teach students the knowledge, skills and abilities needed to understand basic principles of pharmacology, pharmacodynamics and pharmacokinetics. Students will also learn the indications, contraindications, dosing, interactions and adverse reactions of pharmacological agents in order to educate patients about medication administration while managing their condition. This course is also designed to educate students how to administer medications using the appropriate route upon the order of a prescribing physician and in accordance with governing pharmacological regulations.

- ATR 00531: Therapeutic Interventions I 4 s.h.
Prerequisite: ATR 00519 and ATR 00524
 This course will use an evidence-based approach to teach students the knowledge, skills and abilities to use physical agents as a component in the development and implementation of plans of care designed to address a patient's impairments, limitations and restrictions following injuries requiring both surgical and non-surgical therapeutic interventions. These physical agents include but may not be limited to cryotherapy, thermotherapy, ultrasound therapy, electrical therapy, diathermy, intermittent compression, traction, LASER, massage and manual therapies. Additionally, students will be taught how to use patient-oriented and clinician-oriented outcomes to develop and adjust their plans of care to provide the most effective healthcare.
- ATR 00533: Therapeutic Interventions II 4 s.h.
Prerequisite: ATR 00531
 This course will use an evidence-based approach to teach students the knowledge, skills and abilities to use rehabilitation & reconditioning components in the development and implementation of plans of care designed to address a patient's impairments, limitations and restrictions following injury. These concepts include but may not be limited to strength, endurance power, restoration of flexibility and range of motion, activity specific conditioning, proprioception and balance, and agility. Additionally, students will continue to use patient-oriented and clinician-oriented outcomes to develop and adjust their plans of care to provide the most effective healthcare.
- ATR 00535: Behavioral Health 3 s.h.
Prerequisite: ATR 00526
 This course teaches the knowledge, skills and abilities needed for the Athletic Trainer to appropriately develop and implement policies to identify patients with a behavioral health crisis (e.g., sociocultural, mental, emotional and/or physical) and for referral to qualified providers. This course will also address the role of cultural competence among athletic trainers, their patients, and other healthcare providers involved in developing policy, referral and plans of care that promote high quality healthcare.
- ATR 00537: Residency in Athletic Training I 3 s.h.
Prerequisite: ATR 00519
 This supervised clinical experience course provides students with clinical practice opportunities. This course emphasizes continuum of care, including the use of evidence-based practice, cultural competence, inter-professional practice, communication, quality improvement, ethical decision- making, documentation, patient-centered care and professionalism.
- ATR 00538: Residency in Athletic Training II 3 s.h.
Prerequisite: ATR 00520
 This clinical experience course continues to provide students with clinical practice opportunities using increased supervised clinical decision-making autonomy. This course also continues to emphasize continuum of care, including the use of evidence-based practice, cultural competence, inter-professional practice, communication, quality improvement, ethical decision- making, documentation, patient-centered care and professionalism.
- ATR 00540: Fellowship in Athletic Training I 5 s.h.
Prerequisite: ATR 00539
 This clinical course will allow students to have an immersive experience in which to practice clinical skills under supervised clinical decision- making autonomy. This course emphasizes continuum of care, including the use of evidence-based practice, cultural competence, inter-professional practice, communication, quality improvement, ethical decision- making, documentation, patient-centered care and professionalism.
- ATR 00541: Fellowship in Athletic Training II 5 s.h.
Prerequisite: ATR 00540
 This course is the culmination of all clinical experiences. Students practice clinical skills during a full semester of supervised immersive clinical education experiences with the greatest amount of supervised autonomy. This course emphasizes continuum of care, including the use of evidence-based practice, cultural competence, inter-professional practice, communication, quality improvement, ethical decision- making, documentation, patient-centered care and professionalism.
- ATR 00560: Capstone in Clinical Reasoning I 4 s.h.
Prerequisite: ATR 00535
 This course will provide the student, under the guidance of their advisor, the opportunity to develop a clinical/research question and methodology, data analysis and interpretation that leads to a research project that will enhance the Athletic Training profession. In addition, this course will be used to assess the student's competence to practice Athletic Training. Course will include a Master's Comprehensive Exam to assess Athletic Training skills.

Course Descriptions

ATR 00561: Capstone in Clinical Reasoning II 4 s.h.
Prerequisite: ATR 00560

This course is a continuation of ATR00560 Capstone in Clinical Reasoning I. The student will prepare their research project for a culminating presentation in preparation for submission to a scholarly journal.

HES 00100: Teaching Concepts of Driver Education 3 s.h.
Prerequisite(s): (ATR 00235 or PHED 35235) and (HPE 00325 or HLTH 37325) or (ATR 00235 or PHED 35235) and (HPE 00326 or HLTH 37326)

The course is designed for individuals seeking New Jersey Driver Education teacher endorsement. The content includes learning to teach motor vehicle operation, driving environment and the student development of teaching techniques emphasizing safety, risk perception, and decision-making processes applied in a vehicle. Learning how to instruct others in performing behind-the-wheel driving will be scheduled outside of class time.

HES 00116: Safety First Aid Basic Understanding of Athletic Injuries 3 s.h.
Prerequisite(s): Acceptance into one of the following programs; *Athletic Training, Health Promotion and Fitness Management, or Health and Physical Education Teacher Certification.*

This course is designed for the individual who is interested in gaining CPR and First Aid certification and a basic understanding of athletic injuries. The first part of this class will allow students to understand and demonstrate appropriate techniques in performing American Red Cross Community CPR and First Aid techniques required for certification. The second component of the class will enable students to understand basic concepts in athletic injury: anatomy, recognition, and basic care.

HES 00345: Exercise Physiology (with lab) 4 s.h.
Prerequisite(s): (HES 00241 and HES 00242) or (BIOL 10210 and BIOL 10212), all with a grade of C- or higher.

A course in applied anatomy and physiology, this course studies the interrelationship of exercise and physiology. This course also covers the functions of the human body under the stress of physical activity.

HES 00401: Exercise Prescription 3 s.h.
Prerequisite(s): HES 00345 with grade C- or higher.

This course provides students with the knowledge and practical experience in exercise testing and prescription. The information enables students to establish scientific foundations of exercise testing and prescription, to identify the risk factors for disease development and to prescribe an exercise program based on exercise test results and personal limitations. Practical experience is provided for testing subjects in the laboratory.

HES 00510: Advanced Technology in School Health Education and Physical Education 3 s.h.
This course is designed to provide students with knowledge, skills, and tools to effectively implement technology in Health and Physical Education. This course will include computer functionality, technology equipment, software, and apps applicable to Health and Physical Education.

HES 00512: Understanding and Applying the Professional Literature in HES 3 s.h.
This course provides an overview of the research methods used in the health and exercise science field with an emphasis on reading, interpreting and applying the research findings in practical settings. The course will include an overview of both quantitative and qualitative research methods, as well as the steps of the research process. Students will learn how to perform a literature review, conduct a program evaluation and other practical applications of the research process.

HES 00515: Driver Education Concepts and Theory 3 s.h.
The course is designed for currently certified teachers seeking New Jersey Driver Education teacher endorsement. The content includes learning to teach motor vehicle operation, driving environment and the student development of teaching techniques emphasizing safety, risk perception, and decision-making processes applied in a vehicle. Learning how to instruct others in performing behind-the-wheel driving will be scheduled outside of class time.

HES 00520: Exercise and Epidemiology 3 s.h.
This course examines the etiology and pathophysiology of certain diseases and specifically includes the role of exercise as a preventative measure in the onset of these diseases. Disease processes investigated are coronary artery and coronary heart disease, hypertension, Type 2 diabetes mellitus, obesity, osteoporosis, selected cancers and low back pain syndrome.

HES 00521: Contemporary Issues in School Health Education and Physical Education 3 s.h.
This course is designed to provide an opportunity for observation, description and direct discussion of new trends, issues and policies that affect School Health Education and Physical Education, including international and national standards and curricular frameworks, current trends in delivery of programs and pedagogy, and international, national and state/local policies or mandates that affect the status and delivery of School Health Education and physical education in public schools.

Course Descriptions

HES 00525: Curriculum Strategies In Substance Awareness Education 3 s.h.
Prerequisite: PSY 05502

This course provides students with the knowledge, resources and skills needed to plan and organize curricula in chemical health education which meet the needs of students in school and non-school based settings. Students evaluate the nature and scope of the substance abuse problem in order to make informed decisions in the development, organization, implementation and evaluation of substance abuse programs. Special attention is given to program and policy development, instructional strategies, program evaluation, staff development, and the dynamics of school culture.

HES 00530: Advanced Instructional Strategies in School Health Education 3 s.h.

The course examines the many creative and innovative strategies used by school health teachers. Instructional planning will be the key focus. The class will look at the importance of national and state standards, teaching philosophy, health literacy, and strategies for and assessment of instruction.

HES 00540: Advanced Instructional Strategies in Physical Education 3 s.h.

This course examines the key factors and skills that contribute to teaching physical education effectively across all grade levels and ability groups. Specific topics include Understanding by Design concepts, Teaching and Learning styles, Curriculum/Unit/Lesson Design, Teaching Modifications for Challenging Environments, and Disposition Impact on Teacher Effectiveness.

HES 00541: Advanced Assessment in School Health Education 3 s.h.

This course focuses on theories of Assessment, Measurement and Evaluation as it is applied to School Health Education. Specific details will focus on how to develop and implement course related assessments along with how to evaluate student achievement in a variety of ways. Additional emphasis will address program assessment along with teacher assessment as it is related to teaching Health Education in the P-12 school setting.

HES 00550: Capstone Project 3 s.h.

Prerequisite: This course must be taken in the last semester of the program.

In this independent study course, students will work individually with a faculty advisor to complete a major project relevant to health promotion. Projects may include the development of curriculum, program development, program evaluation, a research thesis, or other project with the approval of the Wellness and Lifestyle Management faculty coordinator.

HES 00555: Individual Study in Health and Physical Education 3 to 6 s.h.

This course is designed to give the student the opportunity to pursue an in-depth inquiry into a selected topic in health and physical education on an individualized basis. It provides flexibility for the student in increasing specialization in a selected area of interest. Offered in summer session only for matriculated students with a minimum of 25 S.H. completed. Students must submit a written proposal for individual study to the program advisor by March 15 prior to the summer session desired.

HES 00560: Advanced Assessment in Physical Education 3 s.h.

This course provides advanced instruction in principles, concepts and forms of assessment in physical education. It is designed to provide a basic understanding of statistics to Health and Physical Education graduate students. Assessment alignment with teacher evaluation models and student learning outcomes will be discussed. Project based learning will be incorporated that includes how to plan and implement a unit assessment and analyze and interpret the data.

HES 00570: Teaching School Health Education and Physical Education to Students with Disabilities 3 s.h.

In this course, students acquire the knowledge and instructional strategies needed to plan and implement an effective and inclusive Health and Physical Education program for students with disabilities ages 3-21. The course will include assessments, school and community collaborations, instructional strategies for self-contained and inclusion classes, and resources for activity modifications and information on disabilities.

HES 00590: Integrating Wellness Into School Settings 3 s.h.

This course addresses the growing demand for wellness initiatives for students, their families and staff in P through 12 school settings. Teachers, school nurses, school administrators and community health promotion professionals will understand how to build wellness programming into the school community.

HLT 00103: Health and Wellness 3 s.h.

This course stresses the concepts of lifetime health and physical fitness. It examines the positive effects of exercise upon the heart and blood vessels, obesity and proper diet, body mechanics, and how the body handles stress. The course also examines the negative effects of disease, including socially transmitted diseases, substance abuse including narcotics, alcohol and tobacco, and other contemporary health-related problems. Students learn to analyze their strengths and limitations while planning a personal wellness profile which best fits their needs and interest.

Course Descriptions

- HLT 00170: Stress Management 3 s.h.
This course focuses on the nature of stress and the impact it has on a person's health. The student will study the relationship of the physiological, psychological and social factors which contribute to one's general stress balance and develop life skills to combat the negative impact of stress.
- HLT 00200: Community and Public Health 3 s.h.
Community and Public Health examines the trends and components of the community health field. This course prepares students for the additional courses in the Community Health Advocacy and Education program. Topics include foundations of community health, epidemiology, health of the nation, community mental health, environmental health and occupational safety.
- HLT 00227: CONSUMER HEALTH DECISIONS 3 s.h.
This course examines the rights and responsibilities of a consumer faced with increasing amounts of information related to his or her overall well-being. It examines the major problem of health fraud and the components of scientific research. The role of advertising is explored, as well as sound principles for purchasing nutrition, fitness and other health-related products and services. Students learn important concepts related to health insurance and hospitals, traditional and alternative medical care and how to better manage the decisions they make.
- HLT 00245: US Health Care Systems 3 s.h.
This course provides an overview of public health's role in healthcare history, delivery, financing and policy in the United States. Governmental agencies roles and policies and healthcare statistics are considered as the shape public health.
- HLT 00262: Drugs, Alcohol, and Tobacco 3 s.h.
This course is designed to examine in depth the use and abuse of drugs, alcohol and tobacco including the origins and current status of use. Topics include types of drugs, physiological and psychological impact, assessment, monitoring and prevention programs. Federal and state laws are considered and drug policy is examined. Furthermore, the societal impact of drug use and abuse is examined. The content considers the topic from a health professional's position and is specific to the profession of wellness education.
- HLT 00301: Health and Diverse Populations 3 s.h.
Prerequisite: HLT 00200
The goal of this course is to enable students to understand the powerful influence of social, economic, geographic and demographic factors on the health-related attitudes, beliefs and actions of individuals and communities. Students explore the concepts of health literacy, health disparities, and the impact of public policy on the health status of different populations from a social justice perspective. Social Capital is explored as a model for effectively improving the health status of diverse populations.
- HLT 00303: Environmental Issues and Health 3 s.h.
Prerequisite: HLT 00200
This is a survey course of all types of environmental health risks, including air and water pollution, industrial byproducts, toxins, food safety and food-borne pathogens, radiation, lead and mercury poisoning, pesticides, and bio-terrorist threats. Students learn how to assess environmental risks, communicate reports of risk to the public, and advocate for policies and laws to promote environmental health.
- HLTH 37512: Understanding And Applying The Professional Literature In Hes 3 s.h.
This course provides an overview of the research methods used in the health and exercise science field with an emphasis on reading, interpreting and applying the research findings in practical settings. The course will include an overview of both quantitative and qualitative research methods, as well as the steps of the research process. Students will learn how to perform a literature review, conduct a program evaluation and other practical applications of the research process.
- HLTH 37515: Driver Education Concepts And Theory 3 s.h.
The course is designed for currently certified teachers seeking New Jersey Driver Education teacher endorsement. The content includes learning to teach motor vehicle operation, driving environment and the student development of teaching techniques emphasizing safety, risk perception, and decision-making processes applied in a vehicle. Learning how to instruct others in performing behind-the-wheel driving will be scheduled outside of class time.
- HLTH 37518: Nutrition And Epidemiology 3 s.h.
This course is designed to explore nutrition's role in the prevention and rehabilitation of a variety of diseases including: hypertension, hypercholesterolemia, cardiovascular disease, diabetes, obesity, arthritis, osteoporosis, and cancer. The course will explore the etiology and progression of these diseases and facilitate an understanding of how nutrition may be prescribed for the care of individuals with these diseases. A portion of the course will be devoted to analyzing case studies and guiding the student through the process of nutritional management. Students will be required to perform a review of literature on a specific disease, which they will then present to the class.

Course Descriptions

- HLTH 37520: Exercise And Epidemiology 3 s.h.
This course examines the etiology and pathophysiology of certain diseases and specifically includes the role of exercise as a preventative measure in the onset of these diseases. Disease processes investigated are coronary artery and coronary heart disease, hypertension, Type 2 diabetes mellitus, obesity, osteoporosis, selected cancers and low back pain syndrome.
- HLTH 37525: Curriculum Strategies In Substance Awareness Education 3 s.h.
This course provides students with the knowledge, resources and skills needed to plan and organize curricula in chemical health education which meet the needs of students in school and non-school based settings. Students evaluate the nature and scope of the substance abuse problem in order to make informed decisions in the development, organization, implementation and evaluation of substance abuse programs. Special attention is given to program and policy development, instructional strategies, program evaluation, staff development, and the dynamics of school culture.
- HLTH 37530: Leadership And Management In Health Promotion Programs 3 s.h.
- HLTH 37541: Wellness Coaching And Behavior Change 3 s.h.
This course will provide practitioners with the theoretical background and tools needed to effect positive lifestyle changes in individual clients and population groups. Students will learn to use a wellness coaching delivery model that is based on empirically-supported health behavior theories, such as Social Cognitive Theory and the Transtheoretical Model, to support and motivate lasting behavior change.
- HLTH 37542: Program Planning In Health Promotion 3 s.h.
This course provides an overview of leading health program planning theories, including PRECEDE/PROCEED and Intervention Mapping, and the application of these theories in the most common health promotion settings. The program planning process will be discussed in detail and case studies will be used to demonstrate the successful application of this process.
- HLTH 37550: Capstone Project 3 s.h.
Prerequisite: This course must be taken in the last semester of the program.
In this independent study course, students will work individually with a faculty advisor to complete a major project relevant to health promotion. Projects may include the development of curriculum, program development, program evaluation, a research thesis, or other project with the approval of the Wellness and Lifestyle Management faculty coordinator.
- HLTH 37580: Obesity And Diabetes Prevention And Management 3 s.h.
Prerequisites: INAR 06200 and (BIOL 10211 or BIOL 10212)
The purpose of this course is to examine the most common diseases afflicting Americans which have exercise as one of its primary modes for prevention and rehabilitation. The course will thoroughly review the underlying causes for each disease and provide the student with a complete understanding of how exercise can be used in combating these diseases. The primary areas of focus will be cardiovascular, pulmonary and metabolic disorders.
- HLTH 37590: Integrating Wellness Into School Settings 3 s.h.
This course addresses the growing demand for wellness initiatives for students, their families and staff in P through 12 school settings. Teachers, school nurses, school administrators and community health promotion professionals will understand how to build wellness programming into the school community.
- HLTH 37600: Wellness Through The Lifecycle 3 s.h.
This course is an overview of critical health and wellness issues specific to the lifecycle stages from birth to old age. Designed for health promotion practitioners, this course will provide a review of intervention guidelines, resources and program examples of wellness programs to meet the needs of clients and populations in each stage of life.
- HLTH 37610: Positive Perceptions, Performance and Wellness 3 s.h.
This course is designed to provide students with knowledge of core concepts from positive psychology and the strengths movement from the perspective of wellness philosophy. Students will explore ways in which positive perceptions can be used to help target populations achieve personal and work life satisfaction. Students will develop competency in applied interventions in workplace, school, clinical and community settings to enhance wellness, productivity and performance. This course addresses work and life satisfaction, important drivers of health, by incorporating the fields of positive psychology and wellness.

Course Descriptions

HPE 00100: Teaching Concepts of Driver Education 3 s.h.
Prerequisite(s): (ATR 00235 or PHED 35235) and (HPE 00325 or HLTH 37325) or (ATR 00235 or PHED 35235) and (HPE 00326 or HLTH 37326)

The course is designed for individuals seeking New Jersey Driver Education teacher endorsement. The content includes learning to teach motor vehicle operation, driving environment and the student development of teaching techniques emphasizing safety, risk perception, and decision-making processes applied in a vehicle. Learning how to instruct others in performing behind-the-wheel driving will be scheduled outside of class time.

HPW 00340: Program Planning & Leadership in Health Promotion & Wellness 3 s.h.
Prerequisite(s): (HPW 00350 or HLTH 37350)

This course identifies and explains the components of a successful health promotion and fitness program. Students learn how to conduct a needs assessment, set goals and objectives, design intervention strategies, promote the program, find resources, prepare a budget and evaluate a program. In addition, students sharpen their professional skills related to public speaking, time management and business writing.

HPW 00350: Health Behavior Theory and Counseling 3 s.h.
Prerequisite(s): HPW 00210 or HLT 00200 or NUT 00230 or HES 00105

This course examines the factors that influence an individual's choices and behaviors related to health and the process of motivating change within the individual to adopt healthful behaviors and discontinue unhealthful ones. Several theories of health behavior are examined and applied. The different roles of the client and educator are addressed as the student is prepared to counsel others in making positive health behavior changes.

HPW 00360: Facility & Program Management in Wellness 3 s.h.
Prerequisite: HPW 00210

This course examines the skills necessary to effectively manage a health promotion facility and program through the study of the health and fitness facility management industry. Topics include training and managing staff, marketing programs and services, customer service, financial management, legal concerns, equipment selection and health and safety issues.

NUT 00200: Basic Nutrition 3 s.h.

Students study human nutrition through the basic knowledge of nutrients and the physiological processes involved in the utilization of food. They also develop an understanding of the ways in which age, health, social, and economic factors and other variables affect nutritional needs and food practices. A computerized dietary analysis may be one of the course requirements.

NUT 00415: Nutrition for Fitness 3 s.h.
Prerequisite(s): Earn a grade of C or higher in NUT 00200, BIOL 10210 and BIOL 10212

This advanced nutrition course explores the relationship between nutrition, physical fitness, performance and disease prevention. Specific topics include nutrition fraud, supplementation, ergogenic aids, diet planning for athletes and the relationship between nutrition and chronic diseases such as cancer and heart disease. In addition, students continue to develop their skills as nutrition counselors and educators.

NUT 00500: Advanced Nutritional Assessment 3 s.h.
Prerequisite: Must be accepted into the M.S. in Nutrition and Dietetics program and in the fifth (graduate) year of the program.

This graduate level course will expand upon the nutritional assessment skills of dietetics students to enable them to perform a complete client assessment. Students will learn to assess lifestyle habits, health risks, dietary intake, biometric measurements, and results of blood, stool, saliva and urine laboratory tests. Students will integrate assessment data into a comprehensive analysis and recommendation report for a client. Client confidentiality, data management and follow-up nutrition counseling skills will also be addressed.

NUT 00510: Advanced Topics in Public Health Nutrition 3 s.h.
Prerequisite: Earn a grade of C or higher in NUT 00410

This course is an exploration of the relationship between nutrition, wellness and disease prevention. Students will examine the interaction between the physical and social environment, lifestyle habits and biological factors in determining the health status of a population and the role nutrition plays in addressing them. The development, implementation, monitoring and evaluation of nutrition programs and research needed to address current public health issues will be explored.

NUT 00518: Nutrition and Epidemiology 3 s.h.

This course is designed to explore nutrition's role in the prevention and rehabilitation of a variety of diseases including: hypertension, hypercholesterolemia, cardiovascular disease, diabetes, obesity, arthritis, osteoporosis, and cancer. The course will explore the etiology and progression of these diseases and facilitate an understanding of how nutrition may be prescribed for the care of individuals with these diseases. A portion of the course will be devoted to analyzing case studies and guiding the student through the process of nutritional management. Students will be required to perform a review of literature on a specific disease, which they will then present to the class.

Course Descriptions

NUT 00520: Supervised Practice in Nutrition and Dietetics 1 6 s.h.
Prerequisite: Must be accepted into the Coordinated Program in Dietetics and in the graduate year of the program

This course provides the first half of the required 1200-hour supervised practice experience in partial fulfillment of the requirements for the Registered Dietitian credential. Students will be assigned to an ACEND-approved site and will complete 600 hours of clinical service in a hospital, community and/or school setting, and a food service facility. (Note: upon completion of the 1200-hour experience, the student must successfully complete a 600 hour rotation in a hospital setting and in a community/school setting.)

NUT 00530: Supervised Practice in Nutrition and Dietetics 2 6 s.h.
Prerequisite: Must be accepted into the Coordinated Program in Dietetics and in the graduate year of the program

This course provides the second half of the required 1200-hour supervised practice experience in partial fulfillment of the requirements for the Registered Dietitian credential. Students will be assigned to an ACEND-approved site and will complete 600 hours of clinical service in a hospital, community and/or school setting, and a food service facility.) Note: upon completion of the 1200-hour experience, the student must successfully complete a 600-hour rotation in a hospital setting and a community/school setting.)

PHED 35103: Health And Wellness 3 s.h.

This course stresses the concepts of lifetime health and physical fitness. It examines the positive effects of exercise upon the heart and blood vessels, obesity and proper diet, body mechanics, and how the body handles stress. The course also examines the negative effects of disease, including socially transmitted diseases, substance abuse including narcotics, alcohol and tobacco, and other contemporary health-related problems. Students learn to analyze their strengths and limitations while planning a personal wellness profile which best fits their needs and interest.

PHED 35555: Individual Study In Health And Physical Education 3 to 6 s.h.

This course is designed to give the student the opportunity to pursue an in-depth inquiry into a selected topic in health and physical education on an individualized basis. It provides flexibility for the student in increasing specialization in a selected area of interest. Offered in summer session only for matriculated students with a minimum of 25 S.H. completed. Students must submit a written proposal for individual study to the program advisor by March 15 prior to the summer session desired.

PHED 36100: Teaching Concepts Of Driver Education 3 s.h.

The course is designed for individuals seeking New Jersey Driver Education teacher endorsement. The content includes learning to teach motor vehicle operation, driving environment and the student development of teaching techniques emphasizing safety, risk perception, and decision-making processes applied in a vehicle. Learning how to instruct others in performing behind-the-wheel driving will be scheduled outside of class time.

WLM 00530: Leadership and Management in Health Promotion Programs 3 s.h.

This course covers a variety of leadership issues necessary for ascending from a clinical position to an administrative or management position in a health profession. The general principles are applicable regardless of whether the goal is to ascend into a formal large institution (e.g., hospital), smaller institutional practice, healthcare corporation, private practice, or educational institution setting; basically any healthcare setting where one may have employees to work with or manage. Students are expected to: Participate actively by sharing their own personal experiences in the healthcare setting, provide analysis or critique of various situations presented, and integrate the material learned to answer a comprehensive question at the end of the semester as if they are the leader in an appropriate organizational setting.

WLM 00541: Wellness Coaching and Behavior Change 3 s.h.

This course will provide practitioners with the theoretical background and tools needed to effect positive lifestyle changes in individual clients and population groups. Students will learn to use a wellness coaching delivery model that is based on empirically-supported health behavior theories, such as Social Cognitive Theory and the Transtheoretical Model, to support and motivate lasting behavior change.

WLM 00542: Program Planning in Health Promotion 3 s.h.

This course provides an overview of leading health program planning theories, including PRECEDE/PROCEED and Intervention Mapping, and the application of these theories in the most common health promotion settings. The program planning process will be discussed in detail and case studies will be used to demonstrate the successful application of this process.

WLM 00575: Wellness in the Workplace 3 s.h.

Wellness in the Workplace examines overall management of wellness programs and facilities, with an emphasis on human resource management. In this case, wellness professionals will enhance their knowledge and application of how these elements that can be applied to wellness management settings. Topics include organizational structure, training, and managing staff, funding worksite health promotion programs, financial management, legal and ethical concerns, strategies for program promotion and customer service relations.

Course Descriptions

WLM 00580: Obesity and Diabetes Prevention and Management 3 s.h.
Prerequisite(s): (NUT 00200 or INAR 06200) and (BIOL 10211 or BIOL 10212)

The purpose of this course is to examine the most common diseases afflicting Americans which have exercise as one of its primary modes for prevention and rehabilitation. The course will thoroughly review the underlying causes for each disease and provide the student with a complete understanding of how exercise can be used in combating these diseases. The primary areas of focus will be cardiovascular, pulmonary and metabolic disorders.

WLM 00600: Promoting Human Wellness Across the Lifespan 3 s.h.

This course introduces and examines the dimensions of wellness as well as an ecological approach to health and wellness. Students will be exposed to personal, social, and environmental factors that influence health and wellbeing. The course provides a conceptual framework with which to understand the interrelationships between people and the encompassing world in which they live, work, and play.

WLM 00610: Positive Perceptions & Performance Wellness 3 s.h.

This course is designed to provide students with knowledge of core concepts from positive psychology and the strengths movement from the perspective of wellness philosophy. Students will explore ways in which positive perceptions can be used to help target populations achieve personal and work life satisfaction. Students will develop competency in applied interventions in workplace, school, clinical and community settings to enhance wellness, productivity and performance. This course addresses work and life satisfaction, important drivers of health, by incorporating the fields of positive psychology and wellness.

WLM 00620: Internship in Wellness and Lifestyle Management 3 s.h.

Prerequisite: Students must have completed 27 semester hours in the program.

The goal of this course is to provide graduate students in Wellness and Lifestyle Management with an opportunity to apply the professional knowledge they have gained in their coursework to a professional setting. In addition to participating in the daily operation of the site, the student will complete a major project which incorporated two or more of the professional skills s/he has learned in the coursework of the program.

WLM 00621: Practicum in Wellness Coaching 3 s.h.

Prerequisite(s): WLM 00541 and WLM 00600 and WLM 00580

Practicum in Wellness Coaching is the final course in a four-course sequence designed to prepare students to sit for the National Board Certification in Wellness Coaching through the ICHWC and National Board of Medical Examiners. This is not an online course; students must be able to come to the Rowan campus to complete it. The primary emphasis of this course is to provide students with a minimum of 20 hours of coaching experience under the supervision of a faculty advisor. Students will meet individually with the faculty advisor on three separate occasions to review specific coaching sessions and receive feedback on how they can improve their coaching skills. In addition, the course will cover topics including how to structure and manage a coaching practice and ethical/legal considerations for coaches.

HIST 05100: Western Civilization To 1660 3 s.h.

This course covers the evolution of Western Culture from the Stone Age to the end of the Thirty Years War, emphasizing the medieval and early modern periods. Students study the ancient period to learn of its contribution to western culture. The course introduces students to the principles and methodology of history.

HIST 05101: Western Civilization Since 1660 3 s.h.

This course examines expansion of European culture to other world areas and the consequent changes for European life. It emphasizes the impact of the Industrial Revolution on all aspects of Western culture and introduces students to the principles and methodology of history.

HIST 05120: World History Since 1500 3 s.h.

This course studies the key changes in the patterns of interaction among the major cultures of the earth from the beginnings of European Expansion in the 1500's. The course covers the roots of European Expansion, the response of the Confucian, modern, and non-Eurasian cultures, and the emergence of a non-Western Third World Block since 1914.

HIST 05150: United States To 1865 3 s.h.

This course examines the historical roots of the American democratic traditions, with the emphasis on understanding the political, social and cultural forces developed in the new physical setting of North American and finally welded into a unified nation.

Course Descriptions

- HIST 05151: United States Since 1865 3 s.h.
This course analyzes the principal political, social and cultural factors conditioning the life of the nation since the Civil War. It emphasizes the issues facing modern America with the impact of industrialization and the problems of world leadership.
- HIST 05306: Historical Methods-WI 3 s.h.
Prerequisites: COMP 01112
This course offers intensive training in the techniques of historical research and analysis of historical writing. Required of History majors as prerequisite for other upper-level courses.
- HIST 05492: Seminar 3 s.h.
Prerequisites: Senior Status and HIST 05306 w/C- or better, at least 9 credits in 300-400 level history courses.
This course concentrates on a research paper of substantial length based upon primary as well as secondary sources. The course also requires critical analysis and discussion of the papers by seminar participants. Required of History majors during their senior year.
- HIST 05500: Colloquium In American History 3 s.h.
This course introduces students to in-depth historical analysis of a selected theme in American history, including work with historical sources, critical reading of historians' accounts, intensive research and writing, and class discussion. Proposed topics include American Immigration History, Colonial North America (1500-1775), The American Revolution and Early Republic (1763-1820), Comparative History of the Americas, and Modern American and European Women in Historical Perspective.
- HIST 05506: Research Methods in History 3 s.h.
This course is an intensive introduction to research methods for historians, designed for graduate students who have never had extensive preparation in historical methods or whose skills need refreshing and updating. The course focuses on working with historical sources, an introduction to historiography including critical reading of historians' accounts, an immersion in research and writing skills for advanced students of history including working with on-line databases, and class discussion.
- HIST 05510: Readings And Research In History I 3 s.h.
This course is one of two courses, along with Readings and Research in History II, designed to strengthen the skills of students in historical research, writing, and analysis. It will expose students to key recent theoretical influences on professional historians, cover key developments in historiography from ancient times through the beginning of the twentieth century, and provide students with brief surveys of the major issues, including both classic and contemporary debates, within regionalized subfields of European and Global history. The course will provide students with opportunities for peer presentations, discussion, and leadership not necessarily available in other graduate courses. This course is required for all students enrolled in the Master's program in History and is a prerequisite for 600 level graduate courses but not for other 500 level graduate courses, including Readings and Research in History II. This course is usually offered once a year.
- HIST 05511: Colloquium In American History I 3 s.h.
This course is the first graduate colloquium on the topic of American history that students in this program will take. The course focuses on the in-depth historical analysis of a selected theme in American history, including work with historical sources, critical reading of historians' accounts, intensive research and writing, and class discussion. Proposed topics include American Immigration History, Colonial North America, 1500-1775, the American Revolution and Early Republic, 1775-1820, Comparative History of the Americas, and Modern American and European Women in Historical Perspective.
- HIST 05512: Readings And Research In History II 3 s.h.
Prerequisite: Admission to BA/MA or MA program in History
This course is one of two courses, along with Readings and Research in History I (HIST 05.510), designed to strengthen the skills of students in historical research, writing, and analysis. It will expose students to key recent theoretical influences on professional historians, cover key developments in historiography during the twentieth century, and provide students with brief surveys of the major issues, including both classic and contemporary debates, within the regionalized subfields of United States history. The course will provide students with opportunities for peer presentations, discussion, and leadership not necessarily available in other graduate courses. This course is required for all students enrolled in the Master's program in History and is a prerequisite for 600 level graduate courses but not for other 500 level graduate courses, including Readings and Research in History I (HIST 05.510). This course is usually offered once a year.

Course Descriptions

- HIST 05514: Colloquium In American History II 3 s.h.
Prerequisites: HIST 05511
This course is the second graduate colloquium on the topic of American history that students in this program will take. Otherwise the course is identical to Colloquium in American History I.
- HIST 05516: Colloquium In American History III 3 s.h.
Prerequisites: HIST 05511 and HIST 05114
This course is the third graduate colloquium on the topic of American history that students in this program will take. Otherwise, the course is identical to Colloquium in American History I
- HIST 05522: Colloquium In European History I 3 s.h.
This course is the first graduate colloquium on the topic of European history that students in this program will take. The course focuses on in-depth historical analysis of a selected theme in European history that students in this program will take. The course focuses on in-depth historical analysis of a selected theme in European history, including work with historical sources, critical reading of historians' accounts, intensive research and writing, and class discussion. Proposed topics include Ancient Historians, The French Revolution, The Holocaust in Europe, Popular Culture in Early Modern Europe, Social History of Early Modern Europe, 20th Century War and Society, Women in Early Modern Europe, and Modern American and European Women in Historical Perspective.
- HIST 05523: Colloquium In European History II 3 s.h.
Prerequisites: HIST 05522
This course is the second graduate colloquium on the topic of European history that students in this program will take. Otherwise, it is identical to Colloquium in European History I.
- HIST 05524: Colloquium In European History III 3 s.h.
Prerequisites: HIST 05523
This course is the third graduate colloquium on the topic of European history that students in this program will take. Otherwise, the course is identical to Colloquium in European History I.
- HIST 05531: Colloquium In Global History I 3 s.h.
This course is the first graduate colloquium on the topic of global history that students in this program will take. The course focuses on in-depth historical analysis of a selected theme in global history, including work with historical sources, critical reading of historians' accounts, intensive research and writing, and class discussion. Proposed areas of specialization include Africa, Asia, Eastern Europe, and the Middle East.
- HIST 05533: Colloquium In Global History II 3 s.h.
Prerequisites: HIST 05531
This course is the second graduate colloquium on the topic of global history students in this program will take. Otherwise, the course is identical to Colloquium in Global History I.
- HIST 05535: Colloquium In Global History III 3 s.h.
Prerequisites: HIST 05533
This course is the third graduate colloquium on the topic of global history students in this program will take. Otherwise, the course is identical to Colloquium in Global History I.
- HIST 05545: History of Crime 3 s.h.
Prerequisite(s): Graduate or senior status
This course examines crime in historical perspective, as a window into both social history and shifting approaches to historical study. Graduate students will work in-depth with analysis of both primary and secondary source materials.
- HIST 05551: Graduate Independent Study 3 s.h.
Prerequisite: matriculation in the Master of Arts in History program
Students may complete up to 6 elective credits through the independent study option if they wish to pursue specialized knowledge not available through regular coursework. Students must take at least one colloquium related to the topic before engaging in independent study, then develop an individual study proposal with a full time professor in the History Department. The proposal must be approved by the graduate coordinator prior to enrollment in the course.
- HIST 05561: Early American History Seminar 3 s.h.
This course introduces students to in-depth historical analysis of a selected theme in Early American history, including work with historical sources, critical reading of historians' accounts, intensive research and writing, and class discussion.

HIST 05602: Master's Thesis In History II 3 s.h.
Prerequisite: HIST05510 and HIST 05512 and HIST 05601

In Masters Thesis in History II, the student will write and complete a Masters Thesis. In Masters Thesis in History I (HIST 05.601), the student will have designed and begun implementing their own research project. In this course, under the guidance of a member of the History Department faculty who has agreed to serve as Thesis Advisor, the student will complete the writing of the Thesis. The thesis should, like other graduate courses, engage students in critical reading of historical accounts and provide them with opportunities to reconstruct historical events from original documents, conduct research that is based on primary sources and applies historical methodologies, and write coherent historical analysis. Prerequisites are two courses in historiography and research methods, Readings and Research in History I (HIST 05.510) and Readings and Research in History II (HIST 05.502); and Masters Thesis in History I (HIST 05.601).

CASE 90510: Power & Privilege: The Social Construction of Difference 3 s.h.

This course is situated within a framework of sociopolitical development, informed by a range of critical theoretical perspectives, and advanced by an understanding of the nature of both individual and systemic change. Student will explore how institutions, social systems and individual experiences create and sustain systems of power and privilege that ensure access for some while excluding others. Students will begin to develop a critical understanding of the cultural, political, economic, and the institutional forces that perpetuate systems of privilege and oppression, and to develop a critical consciousness, reflective practice, and commitment to action in relation to the policy, curriculum, pedagogy, and practices they employ.

CASE 90514: Education Reform in the US: Theories of Change 3 s.h.

This course will engage students in a critical conversation guiding the work of education reform in the United States. The content will center on the complexity of the myriad systems that impact educational opportunities and outcomes, from economic policy to employment, housing to transportation, parenting to early education, access to healthcare and healthy choices, criminal activity and neighborhood safety, exposure to violence and environmental toxins. Students will explore the complexity of changing individual behavior and social systems, by examining the interactions between all of the forces at play in urban environments.

CASE 90520: Participatory Research Methods in Context 3 s.h.

This course will introduce students to participatory research methods and decolonizing research methods, including Youth Participatory Action Research (YPAR), Feminist Participatory Action Research (FPAR), Participatory Action Research (PAR), community engaged scholarship, program evaluation, and design based research. Students will study current examples of this work, design and conduct a study in their professional context.

CASE 90521: Ethnography in Urban Settings 3 s.h.

This course focuses on ethnography as an approach to research in education that enables the researcher to explore culture or cultural phenomena using detailed, in-depth methods. Students will consider the unique insights that ethnography offers into key issues in urban education.

CASE 90530: Curriculum Theories in Urban Education 3 s.h.

This course is designed for pre-service and in-service teachers currently working in classroom settings and addresses curriculum theory and basic principles of curriculum and instruction. Through the lenses of curriculum theories and ideologies, students will examine their own curricular beliefs, from where they came, and how they affect how they teach and what they teach. Students will work to understand how curricular orientations can affect the experiences of our students and of ourselves. Using theoretically-oriented lenses, students will also examine the following: race and multicultural issues; curricular accountability on student achievement, teacher retention, and teacher burnout; and students' social class as a possible explanation for achievement.

CASE 90534: Disability Studies 3 s.h.

This course explores critical approaches to dis/ability and in/exclusion, including an analysis of shifting social and cultural constructions of dis/ability through an interdisciplinary exploration of autobiography, narrative, film, legal and policy issues and research literature.

CURR 29515: Introduction To Planning And Teaching 4 s.h.

Students will begin their development of the skills necessary to enhance the planning, teaching, and learning processes. Students will be expected to ground their future classroom practice in a strong research base through a study of planning and teaching models and the latest literature on effective teaching.

Course Descriptions

CURR 29550: Public School Curriculum K-12 3 s.h.

A course that deals with a critical appraisal of current public school curriculum practices. Emphasis will be placed on the following aspects of the K-12 curriculum: the subject matter curriculum, the humanistic curriculum, role of subject matter specialist, the nature of the disciplines, the taxonomies of educational objectives (affective, cognitive, psychomotor). This is a basic course which is a prerequisite for any further study in curriculum. This course may not be offered annually.

CURR 29590: Curriculum Evaluation 3 s.h.

Emphasis will be on identification, organization, and practical applications of selected curriculum evaluation models. This course is designed to enable a student, or a team of students, to determine what and when to evaluate, whom to evaluate, and how to evaluate. Students will be expected to demonstrate a knowledge base in curriculum theory and development. A curriculum evaluation project is required. This course may not be offered annually.

CURR 29600: Specialization Seminar And Investigation I 3 s.h.

The student must complete a special project in the field of specialization which demonstrates his ability to apply theory and research. Focuses upon applying general and specialized knowledge to the examination of proposals and research on the processes of change and innovation.

CURR 29601: Specialization Seminar And Investigation II 3 s.h.

The student must complete a special project in the field of specialization which demonstrates his ability to apply theory and research. Focuses upon applying general and specialized knowledge to the examination of proposals and research on the processes of change and innovation.

ECED 23211: Seminar: Principles and Pedagogies in the Inclusive Classroom 1 s.h.

Prerequisite: Admission into Early Childhood Program; Corequisite: INCL 02210

This Seminar course serves as the vehicle for domain-specific application of the principles and pedagogies that promote the use of positive management techniques supportive of all learners in an inclusive setting. Through case study scenarios, videos, virtual, and live field experiences, students will have multiple opportunities to reflect on and apply new learning to enhance their understanding of proactive behavior strategies and supports.

ECED 23320: Building Brains: Competency and Resiliency 3 s.h.

Prerequisites: READ 30320 AND ECED 23211 AND INCL 02210; Concurrent Enrollment Allowed. Corequisite: ECED 23220

This course will build upon General Education coursework in Child Development, Human Exceptionality and Educational Psychology. Teacher candidates will apply knowledge from these foundational courses as well as prior courses on diversity to understand how young children, birth through age eight, including children with special needs, develop and learn. This course will highlight a risk and resiliency perspective with a focus on protective factors assessed through intentional observations and screenings. Teacher candidates will apply theories of child development through formal and informal observations and in-depth child studies in inclusive classrooms. Emphasis will be made on fostering social and emotional development and developing resiliency. Teacher candidates will thoughtfully plan developmentally appropriate learning experiences to foster growth and connect with learning standards. Clinical classroom visits are required.

ECED 23322: Planning, Integrating, And Adapting Curriculum: Math And Science 3 s.h.

Corequisite: ECED 23321 Prerequisites: READ 30320, ECED 23320, MATH 01201 and MATH 01115

This course is designed to enable teacher candidates to understand and plan curriculums for teaching math and science. This course will start from the perspective of teacher candidates' experiences of learning science and mathematics. They will reflect on their own prior experiences with math and science and discover the impact of those experiences on their feelings of efficacy. Teacher candidates will experience teaching strategies and processes that we expect them to master and use in teaching math and science for young children in inclusive settings. Within an integrated framework, teacher candidates will develop the conceptual knowledge base for developing a coherent science and mathematics program with developmentally appropriate activities and expectations. Clinical classroom visits are required. This course is offered in the spring semester only.

ECED 23430: Observation, Assessment, And Evaluation Of Diverse Learners 3 s.h.

Corequisite: ECED 23431 Prerequisites: ECED 23321 and ECED 23322

This course provides teacher candidates with a dynamic hands-on exploration of the measurement and evaluation of children who are in the developmental period known as early childhood. Teacher candidates will learn about standardized measurement and other types of assessments that are appropriate for young children, including children with special needs. The tools of authentic assessment with checklists, rating scales or observation will be used within the candidates' field experience in both regular and special education settings. Research into the rationale of assessment of young children will also be explored. Clinical experiences are required.

Course Descriptions

ECED 23431: Planning, Integrating And Adapting Curriculum Across Content Areas 3 s.h.
Corequisite: ECED 23430 Prerequisites: ECED 23321 and ECED 23322

This curriculum course considers the areas of Social Studies, Music, Movement, Arts, Drama, and Health/Physical Education as disciplines with a major focus on the integration of curriculum in a rich learning environment. Teacher candidates will also design learning communities that enhance all aspects of learning, by creating environment that reflect the standards. Further, teacher candidates will learn of facilitating interdisciplinary units and projects within an early childhood classroom in inclusive settings. Clinical experiences are required.

ECED 23510: Curriculum Development In Early Childhood Programs 4 s.h.

This course is focused on the content and characteristics of developmentally appropriate curriculum to support growth, development, and learning of young children. Factors that influence early childhood curriculum development, the important role of family and culture, the integration of play, literacy, and assessment are studied. Students learn to apply the recommended standards for developmentally appropriate practices and curriculum. This course also includes a field experience with visitations to early childhood classes/programs.

ECED 23511: Understanding Child Development And Behavior In The Classroom 3 s.h.

This course has two main components: Understanding child development and supporting young children's social emotional development in inclusive early childhood settings. Teacher candidates will utilize research in child development including theories and perspectives from neuroscience and psychology to achieve a holistic understanding of development in the first five years in order to guide young children's social emotional development. Teacher candidates will work with children in diverse settings and actively support young children with emerging social-emotional competencies. Completing field based assignments is required.

ECED 23512: Exploring the World: Literacy, Social Studies, and Creative Experiences in Early Childhood 3 s.h.

Prerequisites: ECED 23.511

This course provides candidates with knowledge, skills, and dispositions necessary to create authentic learning experiences for young children through the integration of literacy, social studies, and creative experiences. Candidates will explore various curriculum models and heavily use project approach and other play based and developmentally appropriate methods to teach these subject areas in inclusive early childhood settings. Course content will emphasize diversity, family and community as the foundation of curriculum with young children. Candidates will be required to develop and teach lessons in the preschool classrooms and to develop a theme based unit plan built on the students data collected from the preschool classroom.

ECED 23513: Assessment In Early Childhood Education 3 s.h.

Prerequisites: ECED 23512, ECED 23514 and Corequisite: ECED 23515

This course focuses on analyzing assessment methods in early childhood education. Candidates will examine different methods and tools of assessment, explore the concept of assessment driven instruction, and learn to develop differentiated instructional strategies based on student assessment data. They will also learn to share the data with families and other professionals in the field. In addition to assessing students, candidates will explore early childhood program assessment tools such as the Early Childhood Environmental Rating Scale-Revised (ECERS-R), the Classroom Assessment Scoring System (CLASS), and the Assessment of Practice in Early Elementary Classrooms (APEEC), in order to ensure comprehensive quality of the education. Conducting a case on one child in preschool level will be required for this course.

ECED 23514: Family, Community, And Professional Ethics 3 s.h.

Prerequisite: ECED 23511 Corequisite: ECED 23512

This course focuses on parent-child relationships and partnerships between parents and their schools and communities. The course examines the role of the parent and the development of young children (P-3). Issues related to P-3 children will be studied along with topics such as family dynamics, curriculum, parental roles, and cultural diversity. Professional ethics will be integrated throughout this course in relation to working with young children and their families both in individual and group settings. Techniques for involving parents and families in school environments will be examined through discussion and lecture. Developing a plan for collaborating with diverse families will be required for this course.

ECED 23515: Young Scientists: Science, Technology, Engineering, and Math experiences in Early Childhood (3) 3 s.h.

Prerequisites: ECED 23512, ECED 23514 Corequisites: ECED 23513

This course provides candidates with knowledge, skills, and dispositions necessary to create authentic learning experiences for young children through the integration of science, technology, engineering, and math (STEM). Candidates will modify the learning environment and materials, utilize project approach and use other play based and developmentally appropriate methods in teaching STEM subject areas in inclusive early childhood settings. Course content will emphasize intellectual and cognitive growth of young children and the ways to engage children in higher level thinking skills such as inquiry, collaboration, critical thinking, and creativity. Candidates will teach children to complete field-based assignments.

Course Descriptions

ECED 23521: Continuous Quality Improvement in Early Childhood: Research & Policy 3 s.h.
This course will provide an overview of early childhood quality improvement initiatives and efforts for continuous quality improvement (CQI). Students will examine the current landscape of research, policy and practice as it relates to quality improvement efforts (including the role of technical assistance) and CQI, as well as frameworks and theories of change. Students will also engage in a critical analysis of the definition of quality using theoretical frameworks as reference.

ECED 23522: Critical Perspectives on Coaching & Mentoring in Diverse Early Childhood Settings 3 s.h.

This course focuses on the practices coaches and mentors utilize in early childhood settings. The course will provide a thorough overview of different frameworks and theories of adult learning along with additional fundamental critical perspectives examining the ways in which people learn and know. Students will investigate models for reflective practices and apply them to their own work and experiences in the field through the lens of mentor/coach and mentee/coachee.

ECED 23523: Access & Equity: Culturally Responsive Practices in Technical Assistance 3 s.h.
Prerequisite(s): ECED 23521 and ECED 23522

This course will build on the literature on culturally responsive competencies and practices to provide a framework for the early childhood technical assistance process. Students will examine critical issues such as gender, language, age, context, sexuality, class, and culture and investigate the ways that leaders can be culturally responsive to the programs in the cultural and community contexts they are situated as they provide technical assistance.

ECED 23524: Implementation Science and Quality Improvement Initiatives 3 s.h.
Prerequisite(s): ECED 23521 and ECED 23522

This course will focus on building an understanding of implementation science as a framework for helping translate research to practice in early childhood education. Students will integrate implementation science components to help implement evidence-based practices in quality improvement initiatives as a self-study. Students will draw on their past and current field experience to develop a case study that involves a quality improvement plan for a program.

ECED 23526: Developing Expertise as an Agent of Change within Early Childhood Systems 3 s.h.
Prerequisite(s): ECED 23523 and ECED 23524

This course will examine the early childhood professional's role as an agent of change by analyzing literature on equity, access, policy, systems, community building, family engagement and advocacy as it relates to early childhood education. Students will integrate multidisciplinary literature to build their knowledge, skills, and dispositions as leaders. Students will apply their knowledge by engaging in an advocacy project that will serve educational and academic communities of early childhood care and education in multiple ways.

ECSE 10500: Characteristics of Young Children with Disabilities (birth-five) and their Families 3 s.h.

This course provides foundation content for key stakeholders to better understand the field of Early Childhood Special Education (birth-five). Guiding theoretical frameworks, historical considerations, and disability-specific characteristics will be presented in a strength-based, family-centered context. Students will have multiple opportunities to reflect on and present new learning.

ECSE 10501: Methods for Assessing and Teaching Infants and Toddlers with Disabilities 4 s.h.
Prerequisite(s): ECSE 10500

This course provides the knowledge and skills necessary to be effective professionals in providing early intervention services for families, infants, and toddlers with disabilities, and those at-risk for development delays. Emphasis is placed on parent-professional collaboration and interagency/interdisciplinary planning, assessment, and design of family-focused, culturally sensitive Individualized Family Service Plans (IFSP). The course includes an overview of a variety of curriculum models, assessments, and instructional strategies for intervention practice (includes field experience).

ECSE 10502: Methods for Assessing and Teaching Preschool Children (3-5) with Disabilities 4 s.h.
Prerequisite(s): ECSE 10500

This course provides foundation content for educators to better understand the field of Early Childhood Special Education (3-five). Age appropriate assessments, DEC best practice guidelines and NJ content standards will be presented in a strength-based, naturalized environment and family-centered context. Students will have multiple opportunities to reflect on and present new learning.

ECSE 10503: Supporting Diverse Families, Community Partnerships, and Transitions 3 s.h.
Prerequisite(s): ECSE 10500

This course provides foundation content for educators to better understand the field of Early Childhood Special Education. The content of this course will focus on supporting young children with special needs and collaborating with their families. Course material will include early childhood transitions and the effective collaboration with community and educational stakeholders. Students will have multiple opportunities to reflect on and present new learning.

Course Descriptions

<p>ECSE 10504: <i>Prerequisite: ECSE 10500</i></p>	<p>Self-Study Project Inquiry in Early Childhood Special Education</p> <p>This course provides a culminating capstone experience for students enrolled in the Early Childhood Special Education Certificate of Graduate Study (ECSE COGS). Students will select a timely area of inquiry in ECSE that directly or indirectly impacts interdisciplinary professionals, families, and/or children with suspected or diagnosed disabilities across diverse birth-five settings. Students will complete a literature review, service project, and presentation to relevant stakeholders.</p>	<p>1 s.h.</p>
<p>EDST 24502: see EDST24.608</p>	<p>Initiation Of Internship Project</p>	<p>1 s.h.</p>
<p>EDST 24565:</p>	<p>Analysis And Application Of Research</p> <p>Students will develop skills necessary to critically analyze and interpret educational research. Interpretation of statistics, analysis of research design, and the use of educational data bases will be components of the course. Emphasis will be on the application of educational research to actual classroom problems through a case study method as well as student-designed projects.</p>	<p>3 s.h.</p>
<p>EDST 24602: See EDST24.608</p>	<p>Development Of Internship Project</p>	<p>1 s.h.</p>
<p>EDST 24608:</p>	<p>Internship Project Report</p> <p>Students will design and complete an individual internship project applying scientific inquiry and research methodology to an identified problem of interest in an area related to instructional practice, curriculum development and/or learning. These courses, Initiation of Internship Project (1 S.H.), Development of Internship Project (1 S.H.) and the Internship Project Report are completed during Phases II, III and IV of the Master of Science in Teaching Program.</p>	<p>2 s.h.</p>
<p>EDUC 01500: <i>Corequisites: ELEM 02511</i></p>	<p>Trends And Practices In Classroom Teaching</p> <p>This course focuses on emerging trends in elementary and subject matter classroom practices. Topics include standards and accountability, constructivist and experiential teaching, inclusion and differentiation, culturally responsive teaching, and collaboration with families and communities. Special emphasis is placed on the background of each trend, related issues, and implications for practice.</p>	<p>3 s.h.</p>
<p>EDUC 01601:</p>	<p>Clinical Internship I</p>	<p>3 s.h.</p>
<p>EDUC 01603:</p>	<p>Clinical Seminar I</p> <p>Students will complete a field experience focusing on sequenced observations and supervised beginning teaching experiences in a variety of school settings. Specific competencies shall be developed in: 1) teaching and learning, 2) curriculum, 3) pupil guidance, and 4) classroom organization and management. Concurrent seminar study will focus on knowledge of the special needs of students, applications of educational technology and student assessment and evaluation.</p>	<p>2 s.h.</p>
<p>EDUC 01605:</p>	<p>Clinical Internship II</p>	<p>7 s.h.</p>
<p>EDUC 01607:</p>	<p>Clinical Seminar II</p> <p>Students will complete a supervised semester-long teaching internship in an assigned classroom and school setting. They will research and apply general and specialized knowledge to the processes involved in full-time classroom teaching and other teacher responsibilities. Seminar study will emphasize effective teaching practices that extends their previous learning and current intern teaching.</p>	<p>1 s.h.</p>
<p>EDUC 01608:</p>	<p>Internship Project Report</p> <p>Students will design and complete an individual internship project applying scientific inquiry and research methodology to an identified problem of interest in an area related to instructional practice, curriculum development and/or learning. These courses, Initiation of Internship Project (1 S.H.), Development of Internship Project (1 S.H.) and the Internship Project Report are completed during Phases II, III and IV of the Master of Science in Teaching Program.</p>	<p>1 s.h.</p>
<p>EDUC 01610:</p>	<p>TCHNG FOR EQUIT/ACHIEV DVRS CL</p> <p>This course focuses on issues and concepts in critical multicultural education and their implications for teaching and learning in diverse school settings. Students will critically examine influences on students' schooling experiences and the historic and current challenges of non-dominant students in the U.S., such as racism, discrimination, school organization, and the social and political contexts of school and society. The course will also focus on methods to build a multicultural classroom that supports equity and achievement for all students.</p>	<p>3 s.h.</p>

Course Descriptions

EDUC 01624: Educational Change 3 s.h.
Prerequisite: ELEM 02550 with a minimum grade of B

To assume leadership roles and to become change agents for their respective schools, teachers will analyze the influences, trends, social and political forces that generate and impact educational change at varying levels, i.e., at the classroom, school, community, state, and national levels. They will develop knowledge of the stages of systemic education change and strategies to achieve and sustain momentum for change. Various field work components will be integrated throughout this course.

EDUC 01700: Leadership Through Professional Learning Communities 3 s.h.

This course is designed to provide Ed.D. students with the opportunity to plan and put into practice their knowledge, skills, and dispositions for providing leadership through Professional Learning Communities. This course will begin by examining the critical stages of group development in establishing Professional Learning Communities, through the lens of detailed school-based examples. Students will follow this examination by engaging in their own identification of an educational issue, and complete a subsequent PLC plan, implement the plan, document and analyze experience and report.

EDUC 02602: MST Professional Seminar 1 s.h.

Prerequisites: EDUC 01610 and SELN 42954 and EDUC 01601 and either ELEM 02513 or SMED 60501. Corequisites: EDST 24504 and EDUC 01605

This course provides support to MST candidates as they undergo their student teaching experience (Clinical Internship II). Candidates are required to reflect regularly on their teaching and school experiences and use these reflections as a basis for discussion in the course. Throughout the semester, they will make connections between the course readings and discussions and their professional practice. Specific course topics will include classroom management, assessment, inclusion, culturally responsive teaching, motivating students, working with families and communities, the job search, and professional development.

ELEM 02210: Seminar: Principles and Pedagogies in the Inclusive Classroom 1 s.h.

Co-requisite: INCL 02210

This seminar course serves as the vehicle for domain-specific application of the principles and pedagogies that promote the use of positive management techniques supportive of all learners in an inclusive setting. Through case study scenarios, videos, virtual and live experiences in Early Childhood, Elementary, Art, Music, and Physical Education instructional settings, students will have multiple, varied opportunities to reflect on and apply new learning to enhance their understanding of proactive behavior strategies and supports.

ELEM 02338: Practicum In Mathematics And Literacy 1 s.h.

Corequisites: ELEM 02336 and READ 30351 Prerequisites: ELEM 02319 and SPED 08316

This field experience course provides an opportunity for candidates in the Elementary Education Specialization to practice their developing instructional skills once a week in a K-5 classroom setting. Candidates will work with partners in assigned classrooms to assist with literacy and mathematics instruction and to take the lead in developing and teaching lessons in literacy and mathematics.

ELEM 02512: Teaching Math, Science, And Health In Elementary Classrooms 3 s.h.

Prerequisites: ELEM 02511 and EDUC 01500 Corequisites: READ 30555

This course focuses on understanding and developing inquiry-based, interdisciplinary instruction based on national and state standards in mathematics, science, and health at the elementary school level. Students will critically examine the principles of inquiry-based instruction and develop interdisciplinary lesson plans along with performance-based assessments. As a culminating project, students will develop a hands-on learning kit for the elementary classroom.

ELEM 02513: Teaching Language Arts, Social Studies And The Arts In Elementary Classrooms 3 s.h.

Prerequisites: READ 30515 and ELEM 02512 Corequisites: EDUC 01601 and EDUC 01610 and SELN 42954

This course examines the use of established elementary education content standards and teaching methods in social studies, the arts, and language arts and how interdisciplinary, thematic units of inquiry facilitate meeting those standards. Students apply current research on how children learn and on effective teaching methods in social studies, the arts, and language arts. Students also apply instructional knowledge and skills they are developing related to inquiry-based interdisciplinary instruction, assessment, and differentiating that instruction for elementary students in the co-requisite field internship.

ELEM 02539: Contemporary Curriculum Processes/Elementary Language Arts 3 s.h.

This course examines current theory and practice in the teaching of all of the language skills of the elementary school. Criteria are developed for evaluating teaching practices in terms of today's demand for improved and expanded communications skills. This course may not be offered annually.

Course Descriptions

ELEM 02540: Contemporary Curriculum Processes/Elementary Mathematics 3 s.h.
The primary purpose of this course is to examine and evaluate practices of teaching and criteria of evaluating mathematics in the elementary grades. Criteria will be obtained by studying research findings and examining the recommendations of authorities in the field. Courses of study will be evaluated using established criteria. This course may not be offered annually.

ELEM 02552: Research On Children's Mathematical Learning 3 s.h.
This course introduces the graduate student to theories of how elementary and middle-school students learn mathematics and to current research on children's thinking and learning of mathematics. It surveys research findings on the child's understanding of mathematical concepts such as number, operations, fractions and proportions, measurement, and space. The focus of the course is how children learn mathematics, and it will enable the graduate student to see mathematics from the standpoint of the elementary and middle school child. This course will aid the teacher in discerning a child's understanding of mathematics as a basis for determining the type of mathematics instruction for which he/she is ready.

ELEM 02556: Principles Of Identification And Treatment Of Mathematics Deficiencies 3 s.h.
This course introduces the student to the principles of identifying, prescribing, planning and teaching for mathematics deficiencies in elementary school children. Students have the opportunity to design a diagnostic instrument and plan an individualized instructional program based upon findings. This course may not be offered annually.

ELEM 02601: Seminar In Elementary Teaching 3 s.h.
Each student is expected to conceive, conduct and report an investigation that will display sound knowledge of educational theory, appropriate research procedures and skill in communication.(ELEM02.600 offered in fall only; ELEM02.601 offered in spring only.)

FNDS 21230: Characteristics of Knowledge Acquisition 3 s.h.
This course will focus on how human beings think, process information and acquire skills. Discussion of learning philosophies and applications in a variety of settings will be addressed. Methods of inquiry, reflection, motivation, creativity and critical thinking will be explored.

FNDS 21530: Foundations Of Multi-Cultural Education 3 s.h.
This course is designed to focus on the key relationships between formal education as a social and cultural institution in American society and multicultural education as a response to contemporary societal needs. The course examines the areas of curriculum, pedagogy and evaluation in multicultural education as they affect and are affected by the education professional. The course requires empirical investigation and subsequent analysis through selected topics in research in Intercultural Education.

INCL 02310: STREAM I: Social Studies, ELA, and the Arts 2 s.h.
*Prerequisites: INCL 02250 and INCL 02330**Co-requisites: INCL 02315 and INCL 02320 and INCL 02325 and READ 30351*
This course explores the use of established elementary education content standards and pedagogical methods in social studies, English/language arts, and the fine arts, and how interdisciplinary, thematic units of inquiry facilitate meeting those standards. Students apply current research on how children learn and on effective teaching methods in social studies, English/language arts, and the fine arts. Students also apply instructional knowledge and skills they are developing related to inquiry-based, interdisciplinary instruction, assessment, and differentiation in the co-requisite STREAM I Clinical Experience course.

INCL 02315: STREAM I Clinical Experience 1 s.h.
*Prerequisites: INCL 02250 and INCL 02330**Co-requisites: INCL 02310 and INCL 02320 and INCL 02325 and READ 30351*
The STREAM I Clinical Experience course serves as the first of two clinically-based experiences during the STREAM professional courses. This course provides teacher candidates enrolled in the co-requisite STREAM courses opportunities to apply educational knowledge, theories, and frameworks across a semester of clinical classroom teaching experience. In addition, a series of discussions, readings, and course assignments will focus teacher candidates on the teaching cycle of lesson planning, implementation, assessment, and reflection/revision. In this course, candidates develop and present evidence of the comprehensive knowledge, skills, and dispositions expected of teaching professionals.

INCL 02320: STREAM II: STEM & Health in the Inclusive Classroom 3 s.h.
*Prerequisites: INCL 02250 and INCL 02330**Co-requisites: INCL 02310 and INCL 02325 and INCL 02315 and INCL 02335 and READ 30351*
This course focuses on understanding and developing inquiry-based, interdisciplinary instruction based on national and state standards in science, technology, engineering, mathematics, and health education at the elementary school level. Students will critically examine the principles of inquiry-based instruction and design-based instruction, develop interdisciplinary lesson plans, and develop performance-based assessments. Utilizing current research findings about how students develop STEM & Health concepts and processes, candidates will develop an understanding of teaching and learning related to STEM & Health disciplines at the elementary level. Teacher candidates will develop repertoire of instructional strategies and will develop and analyze effective science, technology, engineering, and mathematics and health instruction.

Course Descriptions

- INCL 02330: Differentiating Instruction in the Inclusive Classroom 2 s.h.
Prerequisites: SPED 08130 and INCL 02210 and ELEM 02210
Corequisite: INCL 02250
This course focuses on how the diverse needs of individuals with educational disabilities/differences can be met within the general education classroom environment. Emphasis will be on communication and collaboration with parents and education professionals, understanding of linguistic and cultural differences, and utilizing instructional strategies in response to the results of differentiated assessments to meet individual needs.
- INCL 02440: Diversity Seminar 2 s.h.
Prerequisites: INCL 02310 and INCL 02320 and READ 30351
INCL 02325 and INCL 02315
Co-requisite: ELEM 02448
This Diversity Seminar is a capstone course in the Elementary Education program and will help teacher candidates enrolled in clinical practice reflect upon and better understand their practitioner experiences through a series of discussions, readings, and course assignments. In this course, candidates develop a philosophy of teaching; gather and present evidence of their comprehensive knowledge, skills, and dispositions expected in this profession; and demonstrate knowledge of current critical and contemporary issues facing educators and other stakeholders in education.
- LDTC 18500: INDEPENDENT STUDY 1 to 6 s.h.
- LDTC 18503: Foundations Of Learning Disabilities 3 s.h.
A general introduction to learning disabilities, with emphasis upon remediation of basic skills and pedagogical rationale. Students will become familiar with the various types of disorders encountered in pupils with learning disabilities and with appropriate instructional techniques and materials.
- LDTC 18504: Assessment Of Learning Disabilities 3 s.h.
In this two semester sequence, emphasis will be on evaluation and remediation of learning disorders in school age children. A case study is required. Enrollment limited to students matriculated in the Learning Disabilities program. (LDTC18.504 is offered in the fall semester and LDTC18.505 is offered in the spring semester.)
- LDTC 18505: Correction Of Learning Disabilities 3 s.h.
In this two semester sequence, emphasis will be on evaluation and remediation of learning disorders in school age children. A case study is required. Enrollment limited to students matriculated in Learning Disabilities program. (LDTC18.504 is offered in the fall semester and LDTC18.505 is offered in the spring semester.)
- LDTC 18510: Applied Theories Of Learning 3 s.h.
Educators will develop and articulate their own theories of learning after examining carefully and critically the prevalently existing and competing theories of learning. The study of motivation and its effect on learning including the use of rewards and incentives will be covered as well.
- LDTC 18516: Applied Tests And Measurements 3 s.h.
Emphasis is placed upon data-gathering, the evaluation of data and the use of data in educational measurement. Standardized tests, both group and individual, will be studied. Generally, enrollment is limited to those who have been formally admitted to the student personnel services, learning disabilities and school psychology programs.
- LDTC 18520: Neurological Bases Of Educational Disorders 3 s.h.
The student will study the nature of physiological readiness for learning with regard to the various disabilities. The varieties of physical, mental, and learning disabilities will be related to the neurophysiological basis for learning.
- LDTC 18525: Advanced Assessment Techniques 3 s.h.
This course is designed for the advanced graduate student in learning disabilities. It provides for the development of competence in a variety of assessment instruments useful in differential diagnosis of complex learning problems. This course may not be offered annually.
- LDTC 18540: Motor Development In Young Children With Disabilities 3 s.h.
The course investigates motor development resulting in disabling conditions in young children. Major theorists and research are an integral part of the course work. Assessment options and research-based interventions are explored. This course may not be offered annually.
- LDTC 18545: Language Development In Young Children With Disabilities 3 s.h.
The course investigates language acquisition and the physiological, environmental and psychological factors which may influence that development in the young children. This course may not be offered annually.

Course Descriptions

LDTC 18550: Foundations In Early Childhood Special Education 3 s.h.
The course surveys the bases of disabilities in young children. Diagnostic techniques, materials and methods are explored. Classic studies and current research will be studied.

LDTC 18600: Seminar And Research In Learning Disabilities 3 s.h.
This course considers current issues, trends, problems, and research of significance to learning disabilities. Students complete a thesis/project which evidences capacity for research and independent thought. Registration by permission of the program advisor only. The comprehensive examination is taken during LDTC18.601.

LDTC 18601: Seminar And Research In Learning Disabilities 3 s.h.
This course considers current issues, trends, problems, and research of significance to learning disabilities. Students complete a project which evidences capacity for research and independent thought. Registration by permission of the program advisor only. The comprehensive examination is taken during LDTC18.601.

LDTC 18650: Clinical & Field Experiences In Learning Disabilities 3 to 6 s.h.
Students engage directly in supervised case work with children demonstrating learning disorders. Assessment and appropriate, research-based remediation of learning problems, consultation skills and in-service program design are required in a 120-clock hour clinical and field setting. Only matriculated students may register for this course.

METL 50511: Teacher Leadership and Learning Communities 3 s.h.
This course focuses on identifying and unpacking the standards that guide teacher leadership in practice. One of the major elements of teacher leadership is the professional learning community. This course will prepare teacher leaders for planning, implementing, leading, and evaluating the effectiveness of professional learning communities.

METL 50512: Curriculum Development for Teacher Leaders and Other School Professionals 3 s.h.
This course provides background in goals, objectives, assumptions, values, issues, and theory related to contemporary curriculum. Topics include learning and curriculum, the nature and structure of knowledge and curriculum design, and evaluation criteria specifically for teacher leaders, administrators, and other school professionals (e.g., school psychologists, school counselors, consultants) for curriculum planning. This is a basic course, which is a prerequisite for further study in curriculum.

METL 50513: Teacher Leadership in Practice 3 s.h.
Prerequisite: METL 50511
In this course, students will explore the foundations of teacher leadership as well as develop understandings about how research is conducted in the field and the elements they will put into place to make that happen in the second course in this two part course series (METL 50514). Students will read seminal research pieces in an effort to develop their abilities for conducting research in the field of teacher leadership.

METL 50514: Agency in Teacher Leadership 3 s.h.
Prerequisite: METL 50513
In this course, students will explore agency, their personal capacity to act in response to motivations within their own pedagogical environment. Further, through implementation of a problem of practice designed in the first course of this two part series (METL 50513), they will enact their power for change as they build their capacities to shape critically their responses to educational practices and processes. The ultimate goal of this course is for students to become teacher leaders who transform their own practices to ensure the best educational outcomes for their students.

METL 50515: Teacher Leadership Capstone 1 s.h.
Prerequisite: METL 50514
This course is required only for students interested in applying for the New Jersey Department of Education Teacher Leadership Endorsement. This capstone course assists teacher leaders in gathering evidence and documenting their competence in meeting the Teacher Leaders Model Standards. The culminating activity is an electronic portfolio and presentation.

METL 50516: Analysis of Classroom Teacher Behavior 3 s.h.
Prerequisite: METL 50511
Through a review of the literature and self-analysis, students will examine relationships between teacher personality characteristics, classroom processes, and pupil achievement. All students will have opportunities to identify variables which research reveals as significantly correlated with pupil growth. Ample opportunity will be provided for students to develop expertise in the use of a low-inference, relatively objective, and highly reliable system of analyzing classroom interaction. This course may not be offered annually.

METL 50550: Self-Study in Teacher Leadership 1 s.h.
Prerequisite(s): METL 50512 & METL 50514 & METL 50516 & LDTC 18510

During the final semester of their studies in the Master of Education in Teacher Leadership degree, students will work closely with a faculty member to conduct a scholarly self-study that examines how their emerging teacher leadership skills reflects the standards that guide the program and current research in teacher leadership. This self-study will result in the production of a Synthesis Portfolio, a visual or graphic organizer, and a slide-show guided presentation of the graduate candidates' work and accomplishments during the time of their program studies in teacher leadership.

SELN 10576: Effective Inclusive Instruction 3 s.h.

This course is designed to begin developing the knowledge, skills, and dispositions necessary for general education teachers to understand and educate students in inclusive classrooms. Emphasis will be on: (a) understanding the legal foundations for inclusive instruction, (b) recognizing students' diverse strengths and needs, (c) designing, implementing, and assessing effectively differentiated lessons that feature research-based strategies, and (d) organizing and managing a flexible, student-centered classroom.

SELN 10577: Collaborative Instruction In Inclusive Classrooms 3 s.h.

Prerequisite: SPED 08555

This course will focus on instructional strategies in inclusive classrooms for students with and without disabilities. Collaborative and consultative skills for working with parents, regular education teachers, special education teachers, support personnel, and school administrators will be discussed and modeled, as well as role play for team teaching in such environments.

SELN 10578: Special Education Policy, Advocacy, and Teacher Leadership 3 s.h.

This course focuses on the federal and state policies and regulations guiding special education programming in P-12 public schools. Particular attention is given to the role of teacher leaders in advocating for appropriate service and placements for students with disabilities.

SELN 10580: Teaching Students With Moderate And Severe Disabilities 3 s.h.

Through this course students acquire knowledge of the curriculum, assessment procedures, and intervention strategies required to effectively teach individuals with moderate and severe disabilities. Among the areas of emphasis are functional academics, personal care, recreation/leisure, vocational and community living skills. Research-based best practice in instruction for students with moderate and severe disabilities is stressed.

SELN 10581: Implementing Positive Behavior Supports 3 s.h.

This course provides the student with a comprehensive study of the goals of misbehavior in classrooms and in other settings. Specific theoretical techniques and methodology in channeling deviant behavior through the use of behavior modification and other management techniques will be explored. Curricula content, self-development, attitudes, and research finding will enable each student to acquire effective skills in working with learning resistant and deviant behaving children and adults.

SELN 10582: Communication Skills For Students With Disabilities 3 s.h.

This course provides an intensive study of the language needs of students with moderate and severe disabilities and includes individual assessment for the identification of initial communication and the development of acceptable language procedures. Finger spelling, basic American Sign Language, and using technology to develop alternative communication strategies will be covered.

SELN 10585: Educational Assessment In Special Education 3 s.h.

Trends, practices, problems and issues in educational assessment will be examined. The course is designed to enable the special education teacher to administer criterion-referenced, informal, or standardized tests and to plan individualized educational programs for students with special needs. Curriculum-based assessment is emphasized.

SELN 10586: Emotional And Behavioral Support Strategies 3 s.h.

This graduate course will discuss positive strategies, related laws and regulations, and services to support students with behavioral and emotional problems. Social and emotional factors that affect behavior and learning will be explored. Emphasis will be placed on appropriate academic and social skills instruction, and pro-social interventions to meet the needs of students with difficulties in social and emotional adjustments.

SELN 10590: Introduction To Autism Spectrum Disorders 3 s.h.

This course is designed to provide graduate level instruction in the salient issues involved in the education of students with autism spectrum disorders (including autism, Asperger's syndrome, Rett syndrome and other pervasive developmental disorders). It provides an overview to candidates about the characteristics, language development, social relationship development, and instructional interventions for children with autism spectrum disorders.

Course Descriptions

- SELN 10591: Instructional Methods For Students With Autism Spectrum Disorders 3 s.h.
Prerequisites: SELN 10590
This course is designed to provide graduate level instruction in the assessment and instruction of students with autism spectrum disorders. Students will learn about evidence-based practices for enhancing the academic, social, behavioral, and communication skills of students with autism spectrum disorders. They will apply their learning in both in-class case study activities and in field experiences. In addition to specialized practices, students will learn how to modify instruction in general education classes to meet the needs of students with autism spectrum disorders.
- SELN 10592: Clinical Seminar In Special Education 2 s.h.
This seminar course is designed to be taken concurrently with the clinical field practice. Students meet throughout the semester to discuss teaching experiences, problem solving strategies, and their own reflections on working with children and youth with disabilities. A teaching portfolio and a report on student progress monitoring are also completed. A written comprehensive examination will be completed during the course.
- SELN 10593: Clinical Internship In Special Education 3 s.h.
This course will provide students an opportunity to apply research-based best practice in the field to teach children and youth with mild, moderate, or severe disabilities. Participants will be observed by both college supervisors and their mentor teachers, and will reflect on their instruction for improvement.
- SELN 10600: Research Seminar In Special Education 3 s.h.
Students are expected to conduct an original research project. Guidance and assistance will be provided to help identify a problem, select appropriate research procedures, conduct a study, and write a comprehensive review of the results.
- SELN 10601: RSRCH SEM IN SPCL ED 3 s.h.
- SELN 10610: Inquiry in Special Education Settings 3 s.h.
Prerequisite: Matriculation in MA in Special Education
Students will learn about the research methods that form the basis for evidence-based practices in special education. They will study research methodologies and how they can be used to evaluate practice by reviewing recent research on the effectiveness of special education practices. Students will develop a proposal to evaluate the effectiveness of a practice used in a special education setting.
- SELN 10611: Practicum: Inquiry in Special Education Settings 3 s.h.
Prerequisite: Matriculation in MA in Special Education
Students will evaluate the effectiveness of a practice used in a special education setting and share the results with their school community.
- SELN 60576: Inclusive Instruction in STEM Classrooms 3 s.h.
Prerequisite(s): B- or higher in: STEM 60501, READ 30520, STEM 60510 *Corequisite(s): STEM 60502 and STEM 60512*
With a focus on STEM education for students with special needs, this course is designed to begin developing the knowledge, skills, and dispositions necessary for STEM teachers to understand and education students in inclusive classrooms. Emphasis will be on: (a) understanding the legal foundations for inclusive instruction, (b) recognizing students' diverse strengths and needs, (c) designing, implementing, and assessing effectively differentiated lessons that feature research-based strategies, and (d) organizing and managing a flexible, student-centered classroom.
- SELN 60577: Effective Inclusive Instruction in English, Social Studies, Theatre, and World Language Classrooms 3 s.h.
Prerequisites: SMED 60.560; Co-requisite SMED 60.562
In this course candidates will learn how to identify the learning difficulties of students with exceptional learning needs and assess, plan, and teach these students using evidence based practices that will enable candidates to succeed in subject matter content classes.
- SMED 33502: Processes & Principles Of School Mathematics 3 s.h.
In this course, designed for certified teachers of secondary school mathematics, students will expand their pedagogical repertoires to include the mathematical processes of communicating, representing, making connections, problem solving, and reasoning and proving. The principles of curriculum, teaching, technology, equity, learning, and assessment will provide a framework for the study of the processes and students' current practice. These processes and principles will be studied entirely within the context of school mathematics content.

Course Descriptions

SMED 60500: Teaching Methods I: Subject Matter 3 s.h.
Prerequisites: ELEM 02511 and EDUC 01500; Corequisites: READ 30515

This course is the first of two subject-specific methods courses required for secondary candidates in the Master's of Science in Teaching program. MST Teacher candidates will learn to organize instructional materials into standards-based units and daily lessons appropriate for K-12 learners. This course focuses on learning theory, standards-based lesson and unit planning, pedagogy, classroom management, and learner diversity.

SMED 60501: Teaching Methods II: Subject Matter 3 s.h.
Prerequisites: SMED 60500 and READ 30515; Corequisites: EDUC 01601 and EDUC 01610 and SELN 42954

This course is the second of two subject-specific methods courses required for secondary candidates in the Master's of Science in Teaching program. Candidates will continue to learn ways to organize instructional materials into standards-based units and daily lessons appropriate for K-12 learners. In conjunction with a co-requisite Internship I experience, this course covers a range of topics necessary to building a learning community in secondary classrooms, such as learning theory, standards-based lesson and unit planning, pedagogy, classroom management, and learner diversity.

SPED 02340: Teaching Students with Autism Spectrum Disorder 3 s.h.
Prerequisite(s): SPED 08130 and SPED 08360

This undergraduate course focuses on the instruction and assessment of students with autism spectrum disorders. Students will learn about evidence-based practices for enhancing the academic, social, behavioral, and communication skills of P-16 learners with autism spectrum disorders. Students will apply this learning in both in-class study activities and across clinical experiences. In addition to specialized practices, students will learn how to modify instruction in general education classes to meet the needs of students with autism spectrum disorders.

SPED 08130: Human Exceptionality 3 s.h.

This general education course is designed to develop students' awareness and understanding of the nature and needs of individuals with exceptionalities. It provides a lifespan perspective that will assist students in better understanding and, hopefully, accepting and advocating for individuals with disabilities. A field component is required.

SPED 08307: Assessing Students With Exceptional Learning Needs 3 s.h.
Prerequisites: SPED 08130

This course emphasized linking assessment with educational instruction. Prospective classroom teachers will learn how to routinely use norm-referenced instruments and criterion-referenced techniques, with an emphasis on performance assessment. Introduction to statistical factors in testing, observation of testing, and administration of selected assessment instruments will be included. Teacher candidates will also have the opportunity to develop informal assessments in conjunction with a required field experience component.

SPED 08308: Assistive Technology And Transition Planning 3 s.h.
Prerequisites: SPED 08130

This course will focus on exposing students to a variety of technologies used by and with students with exceptional learning needs. Students will gain hands-on skills in designing technology-based instructional materials for students with a wide range of exceptionalities. A focus on Universal Design for learning is at core of this course- with a goal of providing students with the ability to adapt technology, instruction, and assessment to meet a range of student needs. Exposure to adaptive and assistive technologies, as well as state-of-the-art software and hardware, is also emphasized in the course. All of this will be addressed as part of the development of Individual Educational Plans (IEPs) for students, with special emphasis on transition planning. Transition planning will address all major life transitions(e.g., early intervention to preschool; preschool to elementary; elementary to secondary; and secondary to post-secondary and work environments). A field component will be required.

SPED 08316: Differentiated Instruction In The Inclusive Classroom 2 s.h.
Prerequisites: SPED 08130

This Junior Level (300) course will focus on how the diverse needs of individuals with educational disabilities/differences can be met within the general education classroom environment. Emphasis will be on developing communication/collaboration, instructional and assessment strategies that will assist the classroom teacher in diversifying instruction to meet individual needs. A field component is required.

SPED 08325: Pract Spec Ed I 4 s.h.

SPED 08326: Pract Spec Ed II 4 s.h.

Course Descriptions

- SPED 08350: TOSD Clinical Experience I 1 s.h.
Corequisite(s): SPED 08360 and SPED 08307
This course serves as the field placement for SPED 08308 and SPED 08415. Students must complete the field requirements of those in a classroom that includes students with low incidence special needs.
- SPED 08351: TOSD Clinical Experience II 1 s.h.
Corequisite(s): SPED 08308 and SPED 08415
This course serves as the field placement for SPED 08308 and SPED 08415. Students must complete the field requirements of those courses in a classroom that includes students with low incidence special needs.
- SPED 08360: Positive Behavioral Support Systems For Students With Exceptional Learning Needs 3 s.h.
Prerequisite: SPED 08130
This course exposes students to a variety of theoretical approaches in behavior management of students with exceptional learning needs and how to apply those skills in classroom practices. A field component is required.
- SPED 08415: Specialized Instruction For Students With Exceptional Learning Needs 3 s.h.
Prerequisites: SPED 08130 and SPED 08316 and SPED 08307
This senior-level course enhances the systematic progression of skills initiated during the earlier stages of the Teacher of Students with Disabilities Endorsement Program. The course prepares candidates to teach students with exceptional learning needs, covering instructional methods and strategies to teach self-help, motor, reading, math, language, study skills, science, and social studies. The course also emphasizes supporting students with exceptional learning needs in inclusive classrooms. There is a required field experience component with this course.
- SPED 08445: Clinical Seminar In Special Education 1 to 2 s.h.
Prerequisites: SPED 08415
This course is designed to be taken with Clinical Practice in Special Education. The seminar will focus on three major areas within the candidate's area of specialization, application of effective teaching research, and analysis and evaluation of the Clinical Practice experience. This course is intended to be a capstone experiences for all candidates in the Teacher of Students with Disabilities Endorsement Program.
- SPED 08450: Clinical Practice In Special Education 4 s.h.
Prerequisites: SPED 08415 or SPED 08416
This is the culminating field experience for candidates in the Teacher of Students with Disabilities Endorsement Program. Clinical Practice provides candidates with full-time placement in a classroom setting that serves students with exceptional learning needs. Under University supervision and working with a clinical teacher, candidates assume full responsibility for planning, teaching, and managing a special education program during this placement. As the culminating field experience for seniors in the Teacher of Students with Disabilities Endorsement Program, Clinical Practice provides candidates with one full-time placement in a classroom setting, serving students with exceptional learning needs. Under college supervision, and working with a clinical teacher, teacher candidates assume full responsibility for planning and teaching during this placement.
- SPED 08515: Curriculum, Instruction, And Transition In Special Education 3 s.h.
This course will provide an overview of instructional strategies for teaching students with special needs. It will focus on research-based best practices of instruction to students with disabilities in the areas of academics, social interactions, and transition from school to adulthood and employment. Training and education to prepare individuals with disabilities for successful community living will also be emphasized. Field-based assignments are required.
- SPED 08520: Clinical Practice with Students with Disabilities 4 s.h.
This course provides the student with the opportunity to engage in a variety of field-based experiences with students with disabilities. Participants will be placed in self-contained, resource centers and inclusive settings to apply research-based best practices. A weekly seminar to discuss experiences and current issues in special education will be required.
- SPED 08540: Technology For Students With Special Needs 3 s.h.
This course is designed to assist special and regular educators with effective instructional applications of hardware, software, Internet resources, and adaptives. Students will be required to design, implement and evaluate instructional program plans that incorporate examples of current technological materials/devices that foster independence in students with special needs in the regular or special education classroom. Prerequisites: Basic computer skills (e.g., ability to use word processing, email, and the WWW).

Course Descriptions

- SPED 08555: Education & Psychology Of Exceptional Learners 3 s.h.
The course provides an in-depth study of individuals who are so different that they require special social and educational programming. The course content develops an understanding of characteristics and problems of handicapped children and acquaints students with the basis for identifying, classifying and planning to effectively meet needs of children with physical, mental, emotional and social handicaps.
- SPED 08595: INDEP STUDY-SP ED 1 to 6 s.h.
- DA 01505: Data Analytics Capstone Practicum 3 s.h.
Prerequisite(s): Graduate standing or permission of the instructor.
This course provides a culminating experience for students graduating with an M.S. in Data Analytics. This course will reinforce ethical awareness and good decision making in health-related situations and discuss the specific professional and ethical responsibilities of the health data practitioner.
- DA 01510: Data Analytics Laboratory I 1 s.h.
Prerequisite(s): Graduate standing or permission of the instructor.
This lab provides faculty guidance and supervision beyond the scope of existing courses. Students learn how to develop and structure their deliverables, as well as how to use data analytics tools in the context of real-world or research projects.
- DA 01511: Data Analytics Laboratory II 1 s.h.
Prerequisite(s): Graduate standing or permission of the instructor.
This second lab provides additional faculty guidance and supervision beyond the scope of existing courses. Students learn how to develop and structure their deliverables, as well as how to use data analytics tools in the context of real-world or research projects.
- DA 02510: Visual Analytics 3 s.h.
Prerequisite: Graduate standing or permission of the instructor.
This is a graduate level course that investigates visual analytics tools and techniques used to synthesize information and derive insight from massive, dynamic, ambiguous, and often conflicting data, and to communicate the findings effectively for decision-making. Extensive use of case studies based on real-world events will be used to illustrate course concepts. Students will be required to present recent conference or journal papers from the visual analytics literature and to apply visual analytics techniques toward a focused research problem in a real-world application or a domain of interest.
- DA 03510: Patient Data Understanding 3 s.h.
Prerequisite(s): Graduate standing or permission of the instructor
In this course we focus on understanding the patient and other health-related data, including the various sources of data and their commercial use. Furthermore, industry trends and developments related to health-related data will be researched and tracked by the students.
- DA 03511: Patient Data Privacy & Ethics 3 s.h.
Patient Data Privacy & Ethics Prerequisite: Graduate standing or permission of the instructor. 3 s.h. In this course we focus on understanding privacy and ethical issues as they relate to patient and other health-related data, as well as to health information systems. Industry trends and developments will be researched and tracked by the students.
- DA 03520: Healthcare Management 3 s.h.
Prerequisite(s): Graduate standing or permission of the instructor.
This course provides a comprehensive overview of the healthcare management field. Students will be introduced to organizational behavior theories as well as organizational behavior issues specific to the healthcare industry. Students will gain an understanding of the major functions, roles, and responsibilities of those working in healthcare management, including resource and technology management. Students will also gain an appreciation for the legal and ethical issues inherent in healthcare management.
- DPEM 00101: Introduction to Emergency Management and Homeland Security 3 s.h.
This course presents comprehensive overview of the discipline of Emergency Management and Homeland Security. Attention to mitigation, preparedness, response, and recovery will be emphasized. An analysis of past disasters will be presented along with their impacts on policy formation leading up to the current FEMA all-hazards approach. The role, duties, and importance of the Emergency Management professional will be discussed throughout the semester. Moreover, a discussion of ethical issues and career options will be presented.

Course Descriptions

- DPEM 00310: Critical Infrastructure in Emergency Management and Homeland Security 3 s.h.
Prerequisite(s): DPEM 00101
This course introduces students to the methods and approaches to protecting critical infrastructure as a means of effectively protecting people, physical entities and cyber systems and the establishment of an effective incident command operation. Moreover, students will examine vulnerability risk reduction strategies, contingency planning, and strategic partnership models as they are applied to the critical infrastructure sectors. Course topics include risk assessment and management, contingency planning, training and exercises, the role of the crisis management team, crisis communications, and public and private sector roles and relationships in emergency management.
- DPEM 00400: Disaster Planning, Mitigation and Recovery 3 s.h.
The purpose of Disaster Planning, Mitigation and Recovery is to introduce the concepts and skills of hazard mitigation and recovery planning, vulnerability risk analysis, and implementation of a community-wide program disaster preparedness plan, and to relate them to hazard planning and mitigation processes of disaster planning. Students will design an exercise, identify the logistics necessary for execution and management of the exercise, and develop an exercise evaluation plan. The course instruction will follow and meet the guidelines established by the Federal Emergency Management Agency exercise design and evaluation courses and the Department of Homeland Security Exercise and Evaluation Program.
- DPEM 00410: Public Leadership in Crisis Management & Communications 3 s.h.
This course provides an overview of political and organizational leadership in crisis situations by addressing prevention of potential crises, mitigation of those that do occur, and recovery and restoration in the wake of a crisis. Students learn why effective crisis preparation and response are crucial, how to handle internal and external communications, and which leadership qualities are essential for effectively managing a crisis.
- HGS 70507: Introduction to Holocaust and Genocide Education 3 s.h.
This course provides students with the fundamental content knowledge and skills they need to teach Holocaust and Genocide education, broadly situated. Intended for teachers and those working in public history and engaging in anti-bias education in other institutions, this course will focus on learning the history of the Holocaust and genocides, pedagogies and interdisciplinary methodologies for teaching these difficult histories.
- HGS 70537: Holocaust and Genocide Education Program Evaluation and Creation 3 s.h.
Prerequisite: HGS 70507
This course provides students with the knowledge and skills they need in order to, first, evaluate existing curricula and programming being used to teach about the Holocaust and other genocides. These include textbooks, but also courses of study offered by non-profits, films, literature, and museum sites. Students will then create a course of study about the Holocaust or another genocide grounded in content, based on best practices, and dependent on constructivist pedagogies.
- INTR 01488: Career Planning And Development 2 s.h.
This course will provide students with multifaceted experience in career planning and development. Students will engage in self-assessment, career exploration, job search strategies and decision making.
- INTR 01499: Bachelor Of General Studies Portfolio 1 s.h.
This course is limited to students enrolled in the General Studies Program.
This course is the portfolio component required for all students in the Bachelor of General Studies Program. Students will analyze their academic progress through self-reflective assessment.
- INTR 01503: Seminar On Integrating Mathematics And Science 3 s.h.
This interdisciplinary seminar is designed for advanced graduate students with some background in teaching mathematics and/or the sciences at the elementary and/or middle school level. Students in the course will examine a number of current scientific issues from the perspective of different sciences and develop and pilot instructional activities relating to those issues.
- INTR 11511: Urban Teacher Residency 0 s.h.
- SE 01501: Sustainable Engineering Fundamentals 3 s.h.
Sustainable Engineering incorporates development and implementation of products, processes, and systems that meet technical and cost objectives while protecting human health and welfare and elevating the protection of the biosphere as a criterion in engineering solutions. This course will introduce the role of engineers in sustainability and provide tools to measure sustainable systems.

Course Descriptions

SE 01502: Life Cycle Assessment 3 s.h.

This course will introduce students to the fundamental principles of Life Cycle Assessment. Students will apply the ISO 14000 standard methodology to perform a life cycle assessment of a product or process. Students will perform assessments using process-based analysis models, input-output and hybrid approaches of life cycle assessments. Critical Assessments of published life cycle assessments will be conducted. Extensive use of life cycle assessment software will be required for this course. Software programs will be used extensively in this course.

SE 01503: Environmental Policy 3 s.h.

This course is an introduction to the history, organization, goals, and ideals of environmental policy in America. It examines the shift in emphasis from nature protection to pollution control to sustainability over the twentieth century and develops critical tools to analyze changing conceptions of nature and the role of science in environmental policy formulation. Of central interest is the relationship between knowledge, uncertainty, and political or legal action. Theoretical approaches are combined with case studies of major episodes and controversies in environmental protection.

SE 01504: Environmental Management 3 s.h.

This course deals with integrated environmental management issues and methodologies with a global perspective. Topics include environmental decision-making from a socio-economic and environmental standpoint, environmental data collection, analysis, and management techniques for environmental assessment and feasibility case studies. The course is intended to give students an understanding of current environmental issues and tools for analysis of data for environmental management. The issues are examined from the worldwide perspectives of science, engineering, business and society. The course will culminate in an original research project and presentation.

SE 01505: Sustainable Energy 3 s.h.

Sustainable Energy is an introduction to the characteristics of a sustainable source of energy. Numerous energy sources will be investigated to determine their role in a sustainable future. Technologies such as solar, wind, biomass, geothermal, hydropower and other emerging technologies will be studied. A fundamental concept of the course is that a sustainable energy source must be technically feasible, economically viable, protect human health and welfare, as well as protect the biosphere.

JRN 02210: Journalistic Writing 3 s.h.

Prerequisites: COMP 01112

This course provides an introduction to a wide variety of news writing forms. Students learn how to cover events, conduct interviews, and write with effective journalistic structure and style.

JRN 02313: Magazine Article Writing 3 s.h.

Prerequisite(s): JRN 02310 or JRN 02210 or PR 06301 or WA 01300 with a grade of C- or better

Students get started as freelance magazine article writers by conceiving article ideas, interviewing, researching, and writing. The course provides instruction in adjusting style and slant to reach potential readers. Students learn to sharpen writing, resolve clarity problems, and add vigor to writing. The course analyzes freelance markets. Students submit work for publication.

JRN 02314: Photojournalism 3 s.h.

Prerequisites: 45 credits required

This course covers the practices and techniques used by photojournalists on modern American newspapers. Students take digital photographs and edit in Photoshop. Weekly laboratory assignments are required.

JRN 02317: Publication Layout And Design 3 s.h.

Prerequisites: 45 credits required

This course focuses on design, layout, and make-up of brochures, magazine and newspaper pages, newsletters, fliers, and advertisements. Students will learn how to coordinate art and typography with content. A workshop approach is used to show students how creativity in design can increase the effectiveness of communication. Students learn how to work with various computer applications to achieve effective layout.

JRN 02319: Media Ethics 3 s.h.

Prerequisite(s): JRN 02205 or RTF 03295 or PR 06301

Media Ethics examines decision-making in media professions. The course examines the moral aspects of media conduct, and helps the student develop a more complete understanding of not only the historical background of ethics, but how the interplay of politics, science, economics, law, philosophy, and other disciplines have influenced the way we view right and wrong. The course also strengthens analytical skills as they relate to ethical decisions, cultivating a perception of how media professionals come to a decision and the many factors that influence that decision.

Course Descriptions

- JRN 02321: Digital Journalism I 3 s.h.
Prerequisite(s): JRN 02205 or RTF 03295 or PR 06301
This course provides an introduction to the digital news landscape. Students perform original reporting and a series of writing, photo, audio, video and social media news assignments.
- JRN 02332: The Publishing Industry 3 s.h.
Prerequisites: 75 credits required
The Publishing Industry examines the business and practice of publishing through broad readings and research related to industry operations and trends, field trips, guest speakers, interactive projects, and directed discussion. Students explore publishing aspects of books, magazines, newspapers, online material, blogging, podcasting, self-publishing, and editing. When students complete this course, they will have a better idea of the career path they would like to pursue.
- JRN 02335: Media Law 3 s.h.
Prerequisites: 45 credits required
This course examines laws that deal with the legal responsibilities of print, broadcast, online and film media as well as public relations and advertising practitioners. Students analyze topics such as libel, privacy, broadcast regulations, and copyright.
- MAWR 02510: Writing For Broadcast 3 s.h.
This course teaches students how to write scripts and script segments for radio, TV and documentary film. Exercises include use of broadcast style, writing for audio and video, dialogue, narrative, attribution, and structure. The goals of this class are to expose students to techniques common in all news and documentary writing and to integrate the use of cameras and microphones with the spoken word.
- BLED 40505: Issues And Innovations In Foreign Language Education 3 s.h.
This course is designed for educators responsible for planning and supervising the foreign language curriculum K-12. The course deals with the issues of sequential curriculum development in foreign languages in keeping with state and national standards. Emphasis is placed on innovations resulting from implications of research in second language acquisition, the interrelationship of language and culture and models for foreign language curriculum development. Topics include modes of communication, aspects of culture, scope and sequence of content, and curriculum evaluation.
- BLED 40510: Issues Of Language And Cultural Diversity In ESL/Bilingual Programs 3 s.h.
This course focuses on foundational theories and areas of research related to the field of TESOL and bilingual education. Special emphasis is placed on the forces affecting students and policies related to second language schooling in state, national and international contexts. Students will develop a reflective philosophy for educating English Language learners.
- BLED 40512: Linguistics And Second Language Acquisition For Teaching Languages 3 s.h.
This course addresses basic concepts of linguistic theory and second language acquisition research. Students will compare and contrast second language acquisition paradigms and investigate their applicability to the classroom. Discussion will also focus on components of the language system in the context of second language teaching.
- BLED 40515: Language, Culture And Communication 3 s.h.
In this course students examine the experiences and identities of English Language Learners, focusing on culture, socioeconomic status, race, religion, national origin, disability and gender. Special issues related to immigration and the forms of discrimination that ELL students encounter are also addressed. Students also discuss advocacy issues as well as ways to support partnerships with families and communities.
- BLED 40517: Modern Developments In ESL/Bilingual Education 3 s.h.
This course examines the implications of current theoretical positions regarding second language acquisition for program development and instruction. The course deals with a range of methodologies, the selection of content, instructional techniques, the selection and use of materials, and the development of alternative assessment measures.
- BLED 40520: Planning, Teaching, And Assessment In ESL Classrooms 3 s.h.
This course concentrates on how teachers plan, teach, and assess in ESL classes. Students will create unit plans that incorporate both language and content area objectives and learn a variety of research-based instructional methods to support language acquisition and student learning.
- BLED 40521: Teaching Bilingual/Bicultural Education: Process And Practice 3 s.h.
The course examines current programs and available materials in bilingual education appropriate to a range of content areas and grade levels. Microteaching and peer coaching are practiced to provide a basis for reflective teaching. The course is open to candidates who possess or are eligible for a standard or provisional New Jersey instructional certificate. State-approved examinations in oral and written English and the target language are required for certification.

Course Descriptions

BLED 40522: Integrating Language And Content In The ESL/Bilingual Education Classroom 3 s.h.
This course examines the theory and practice of integrating language and content in K-12 ESL, bilingual and content-area classrooms. Specific focus is given to methods pertaining to implementing sheltered instruction modles, content-based ESL, students' proficiency levels, proficiency testing, and strategies for collaborating with other teachers and school leaders.

BLED 40523: Practicum In Teaching English As A Second Language 1 s.h.
Corequisite: BLED 40520
This course is offered as a co-requisite to Teaching ESL: Process and Practice (BLED 40.520). The course will consist of a field experience in teaching English as a Second Language (ESL) and an accompanying class that focuses on reflective evaluation of that field experience. Candidates currently teaching English language learners will use their own classes for the field experience. Candidates not currently teaching English language learners will be assisted in placement for the field experience.

BLED 40524: Clinical Internship In English As A Second Language 6 s.h.
Prerequisites: BLED 40510 AND BLED 40512 ANDBLED 40515 AND BLED 40520 AND BLED 40523AND BLED 40522 (40522 may be taken concurrently)
This field-based course provides the teacher education candidate with opportunities to demonstrate the subject content, professional knowledge, pedagogical skills, and dispositions that are developed in program course work. The Clinical Internship experience is a supervised, full-time activity conducted in a public elementary, middle or high school ESL classroom. Successful completion of the Internship requires demonstrated mastery of subject area content, lesson planning, and multiple instructional strategies to meet varied student needs; demonstrated ability to assess learner progress and modify instruction accordingly, ability to manage all aspects of classroom activity, ability to work collaboratively with all instructional, administrative, parental, and community members of the classroom and school community, and ability to document evidence of doing all of the above. Admission to this course requires completion of all previous Teaching ESL coursework, including a minimum program grade point average of 3.0.

CASE 90512: Examining Intersectionality in Critical Theories of Race, Class, Gender, Sexuality and Citizenship 3 s.h.
This course provides an overview of intersectionality and selected theoretical lineages which intersectionality often draws from including feminism, critical theory, critical race theory, ethnic studies, queer studies, nationalism, and de/post-colonialism. Beyond studying and summarizing relevant work, the course challenges students to critically synthesize and apply these frameworks to the study of urban education and communities.

CASE 90513: History of Urban Education and Communities 3 s.h.
This course surveys the varied relationship of urban education and communities within the broader history of the rise of urban cities. In doing so, the course critically examines the history of urban communities and schools through various analytic frameworks attending to concepts of space, race, class, culture, language, and citizenship, as well as how these theories have been taken up in the analysis of urban education and communities. The course focuses on the intersection of urban social movements, communities, policies, and practices as related to public schooling the United States.

CASE 90519: Urban Inquiry and Social Justice Research Methods 3 s.h.
In this methods course, students begin by exploring researcher positionality to understand how epistemological assumptions influence how and the extent to which researchers are able to conduct quality studies. By drawing on various works, such as common typologies of cross-cultural researchers (Banks), epistemological racism in research, (Scheurich and Young), and various unseen, and unforeseen dangers in conducting research in racially and culturally diverse settings (Milner), students are encouraged to recognize the importance of researchers' roles in advancing social justice through sound research. Accordingly, students investigate different modes of inquiry, not to choose one way of "doing" research but to understand how methods can complement each other given the appropriate lens and approach. Within each of these modes of inquiry, students examine how data (e.g. observations, interviews, field notes, documents, artifacts, and various large data sets) can work for or against social justice.

CASE 90524: Capstone Thesis Project 3 s.h.
This course serves as the final project for students in the Urban Education and Community Studies MA. Students will be required to choose a research question, develop a study, collect and analyze data, write and defend a research thesis paper. The topic of the research study will be chosen and developed in consultation with a faculty advisor.

CASE 90531: Critical Consciousness: Sharing Power and Voice with Students 3 s.h.
Students will learn to use dialogic instructional strategies to create student-teacher partnerships that respect student voice and affirm the lived experiences of students. Participants will learn strategies to engage students and themselves in critical inquiry about identify, privilege, and social justice, and to share power and voice in their classrooms.

Course Descriptions

CASE 90532: Working with Families and Communities 3 s.h.

This course will help teachers to develop a robust, critical, and theory-based understanding of the interaction of families and schools. Students will also learn to work collaboratively within their schools to equitably and purposefully engage with the families of their students and the communities surrounding their schools. By the end of this course, students will develop a set of research questions and vignettes for a community-based participatory research project. Students will identify and closely examine several models of family and community engagement in schools, connecting these models with current school and classroom practices of engaging with families and communities. Students also will engage in coursework toward two products: 1) a conceptual framework for interacting with families as education professionals, and 2) analysis and reconstruction of a school-based family and community event.

CASE 90533: Critical Pedagogy 3 s.h.

The theoretical framework for this course builds upon conceptualizations of critical pedagogy that supports educators to challenge traditional beliefs about the ways that school works. This requires a commitment to the construction of knowledge by sharing power and authority between students and teachers, challenging the hegemonic or “common sense” notions of what school is and should be, and sharing control of the curriculum and pedagogy of the classroom.

CASE 90540: Urban Education Policy and Reform 3 s.h.

Urban educational leaders need to be able to explore the past to see how knowledge was perceived, valued, transmitted, received, and validated within educational institutions, and the dynamics that drove changes over time. In this course, students will be required to critically analyze an educational policy issue uncovering the context (history, research, politics), determining how the policy was implemented and what the outcomes were, intended as well as unintended.

CASE 90541: Leadership for Social Justice and Educational Equity 3 s.h.

In this course, students will develop a deeper understanding of leadership, including our own personal philosophy of leadership. We build this as we seek to understand our own experiences and the experiences of historically marginalized groups of the extended school community along with the historical, philosophical, and political forces that have led to inequities. By critically analyzing current conditions, we can use our role as leaders to develop policies, curriculum and relationships to create access and opportunities for children, teachers and families fully participate and succeed as learners/citizens in formal and informal educational communities.

CASE 90542: Engaging in Education and Community 3 s.h.

This course will look at the theoretical foundations and critical issues of advocacy, elements of advocacy planning, and strategies for action. Students will deepen their understanding of advocacy tools, processes and models to utilize advocacy in practice. A primary focus will be on the connection of community organizations and schools, with a focus on developing inclusive, collaborative processes that include a variety of stakeholders and engage a range of strategies. Students will review methods that include leveraging political processes, developing social media campaigns, and developing policy proposals.

CASE 90550: Urban Education & Community Studies Special Topics 3 s.h.

This course responds to the emerging challenges and opportunities created by the shifting education policy landscape, and so will capitalize on current events and shifts in legislation and policy that impact work in urban educational settings.

CASE 90551: Artistic Expression in Action: Building Stronger Communities Through Fine Arts Outreach 3 s.h.

This course is designed to help teachers and/or community leaders learn how to develop and implement responsive, collaborative, and culturally relevant arts activities capable of being integrated in various culturally and linguistically diverse settings for the purposes of providing outreach and enrichment. Further, students will examine, create, and experience specific artistic media that have been used for the purposes of awareness, outreach, and enrichment in hopes of understanding arts aesthetic and social value.

CASE 90710: Power & Privilege: The Social Construction of Difference 3 s.h.

This course is situated within a framework of sociopolitical development, informed by a range of critical theoretical perspectives, and advanced by an understanding of the nature of both individual and systemic change. Student will explore how institutions, social systems and individual experiences create and sustain systems of power and privilege that ensure access for some while excluding others. Students will begin to develop a critical understanding of the cultural, political, economic, and the institutional forces that perpetuate systems of privilege and oppression, and to develop a critical consciousness, reflective practice, and commitment to action in relation to the policy, curriculum, pedagogy, and practices they employ.

Course Descriptions

EDUC 01270: Teaching In Learning Communities I 3 s.h.
prerequisites:

This course will enable Subject Matter Education (SME) teacher candidates to gain an understanding of the effect of the learning environment on student achievement. Candidates will learn strategies for creating and maintaining a positive learning environment in which all learners can achieve their potential. The course will focus on student-centered instruction that promotes civil discourse and strategies to address no-engagement. Clinical (field) experiences will provide the opportunity for teacher candidates to begin to make the connection between the content of the course and its application in secondary SME classrooms.

EDUC 01272: Teaching In Learning Communities II 3 s.h.
Prerequisite: C- or better in EDUC 01270

This course will enable Subject Matter Education (SME) candidates to gain a multifaceted understanding of the individual and institutional elements that impact student achievement and schooling experiences. Candidates will then learn about specific approaches and instructional practices that they can use in the classroom to promote learning for culturally and linguistically diverse students, including teaching academic language, differentiating instruction and assessments, and supporting home, community, and school partnerships.

FNDS 21150: History Of American Education 3 s.h.

This course provides an in-depth study of American education from 1600 to the present, covering preschool through post-secondary education. It focuses on the social forces, sources of conflict, major educational figures and patterns of schooling during each period. In addition, the course will highlight the ways in which diversity has been accommodated, marginalized, or rejected in American education. Students will be able to identify and discuss ways in which diversity has been accommodated, marginalized, or rejected in American education.

LIBR 01502: Survey Of Children's Literature 3 s.h.

The course surveys literature for children from birth to age 14, including genre study, major authors and illustrators, current trends in publishing, issues in criticism, electronic resources related to children's literature, methods of promoting reading, teaching children's literature to children, and using multicultural children's literature in classrooms and libraries.

LIBR 01503: Survey Of Young Adult Literature 3 s.h.

Students will consider the reading and media interests of young people ages 12-18 in view of current information about adolescence in the United States. Topics covered include major genres, authors, literary qualities, criticism and reviewing, awards, selection principles, censorship, and promotional techniques for classrooms and libraries.

LIBR 01505: Reference Resources And Services I 3 s.h.

Students focus on the provision of reference services as well as the evaluation and use of reference sources in schools and libraries. Topics covered include characteristics and use of information sources and systems, policies and procedures, basic reference sources in both print and electronic formats, and skills and attitudes needed to assist diverse individuals in meeting their information needs.

LIBR 01506: Foundations Of Librarianship 3 s.h.

This course introduces the field of librarianship and is the first course students should take in the program. Includes: the roles of libraries and librarians in society, the history of libraries and communications, models of library service, professional ethics, and contemporary issues in school and public libraries.

LIBR 01507: Managing Library Programs 3 s.h.

The management of school and public library services is the focus of this course. Students learn and apply principles of library organization, personnel administration, budgeting and finance, facilities and equipment, public relations, policies and procedures, accountability and evaluation.

LIBR 01510: Library Collections And Resources 3 s.h.

The course focus is on issues, practices, and policies in the selection of print, nonprint, and electronic resources in school and public libraries. Emphases include: intellectual freedom, effective communication through policies, technology applications, bibliographic aids and review practices, and collection evaluation and maintenance.

LIBR 01511: Organization Of Library Resources 3 s.h.

The course studies the library's responsibility to provide physical and intellectual access to print, nonprint, and electronic resources. Topics include: cataloging and classifying resources according to national standards; use of current technology resources; evaluating commercial and network sources; and understanding of theories and issues related to the organization of knowledge.

Course Descriptions

- LIBR 01516: School Media Centers For Teaching And Learning** 3 s.h.
Focus is on the relationship of the library media program to the school curriculum with emphasis on library/media, information, and computer skills in the pre-K-12 instructional program. Students observe library media services in school settings.
- LIBR 01521: Design And Production Of Educational Media** 3 s.h.
Focus is on new and emerging electronic technologies in libraries and media centers. Students use a variety of software to create such products as databases, library web pages, spreadsheets, presentations, and curriculum and public relations products. The course includes video technology, Internet searching, copyright and equity issues, and reflective writing.
- LIBR 01530: Library Technology** 3 s.h.
Focuses on planning for school and library technology, funding for technology, system selection, and current issues in school and library media technology. Study of the role of the library staff in the creation of information and its flow to users.
- LIBR 01570: Selected Topics In Librarianship** 1 to 6 s.h.
Designed for in-service school media specialists and public librarians, this course focuses on specific topics or issues affecting the profession and permits students to explore emerging thinking in the field. Topics vary each time the course is taught.
- LIBR 01580: Practicum In Library Services** 1 to 3 s.h.
Focus is on observation and participation in important aspects of library operations, including selection and organization of materials; reference and bibliographic services; curriculum development; and techniques of teaching library media use. This course must be pursued at an approved site under the supervision of an appropriately certified school or public librarian and a college supervisor.
- LIBR 01601: Graduate Thesis In Library Services II** 3 s.h.
Completion of the research project selected in Graduate Thesis in Library Services I.
- READ 30120: Literacies In Today's World** 3 s.h.
This course will provide students with historical and cultural perspective of how and why people acquire and use literacy to meet personal and societal needs. By viewing literacy through different lenses students will acquire an understanding of the interrelationship of language, thought, and social practice.
- READ 30280: Teaching Literacy** 3 s.h.
A basic understanding of the reading process and its relationship to the other language arts is the focus of this course. Topics pertaining to reading/writing instruction in grades K-12, ranging from emergent literacy to comprehension of narrative and expository discourse are covered. There is an emphasis on strategies for developing phonemic awareness, word recognition skills, fluency, vocabulary, and comprehension through various instructional settings and across all curricular areas. The importance of literature-enrichment activities and making curricular connections is highlighted. Field component is required.
- READ 30311: Literacy Pedagogy I** 3 s.h.
This course explores the broadening nature of literacy and literacy instruction in the 21st century. The course addresses both the theory and pedagogy of literacy instruction. Topics range from emergent literacy to comprehension of narrative and expository discourse and address reading and writing instruction that engages students in the K-5 classroom. This course has a particular focus on designing literacy instruction for culturally and linguistically diverse students that positions the literacy teacher as a reflective practitioner with a focus on teaching for social justice.
- READ 30319: Teaching Reading And Writing In The Content Area** 3 s.h.
This course helps students integrate reading and writing methods and strategies into subject matter instruction in grades K-12 ranging from emergent literacy to comprehension of narrative and expository text. There is an emphasis on strategies for developing phonemic awareness, word recognition skills, fluency, vocabulary, and comprehension through various instructional settings as well as integrating writing to learn strategies. Students acquire understanding for assessing pupil abilities, selecting suitable materials and fostering language, comprehension, and study skills needed for mastery of academic subjects. The importance of literature-enrichment activities and making curricular connections is highlighted.
- READ 30320: Language Development, Emergent Literacy, And Reading In Young Children** 4 s.h.
Corequisites: ECED 23320 OR INCL 02210
Students will gain an understanding of five phases of Literacy: Awareness and Exploration; Experimental Reading and Writing; Early Reading and Writing; Transitional Reading and Writing; Independent Reading and Writing. Students will learn how to integrate literacy across all curricula in the forms of reading, writing speaking, listening, and viewing. They will be able to identify, assess, adapt and implement a variety of strategies that take into account children with special needs. Further, students will be able to recognize the impact of cultural, linguistic, and other diversities that affect engagement in literacy learning and they will be able to identify and utilize effective teaching strategies that address these differences. This

course also requires a weekly field experience in a pre-school setting.

READ 30347: Phonics And Spelling Instruction 3 s.h.
Prerequisites: READ 30280 or REED 30280

This course prepares prospective teachers to blend evidence-based phonemic awareness, phonics, word identification, and spelling instruction strategically into an integrated language arts approach to teaching literacy. Major topics include the development of children's phonic/spelling knowledge; what teachers should know about language; informal techniques to assess children's early literacy, word identification, and spelling understandings; systematic and meaningfully applied instruction to meet development, cultural, and linguistic differences; and communicating with parents and professionals about phonics and/or spelling.

READ 30350: Using Children's Literature In The Reading/Writing Classroom 3 s.h.
Prerequisites: REED 30280 or READ 30280

This course prepares prospective teachers to integrate reading and writing in a language arts program through the use of book selections that reflect quality writing in the genres typically found in children's literature. The course will provide students with sufficient background and knowledge in children's literature so that they may teach reading by using trade books, emphasizing process writing and developing thematic units. Language, literacy, and learning will be enhanced by integrating children's literature across the curriculum.

READ 30351: Literacy Pedagogy II 2 s.h.
Prerequisite: READ 30280

This course prepares teacher candidates to provide differentiated literacy instruction in diverse classrooms with a wide range of developmental levels, instructional needs, interests, and backgrounds. Teacher candidates will learn how to select, administer, and analyze various assessment tools to inform instruction. Field experience is required.

READ 30421: School Reading Problems-Writing Intensive 4 s.h.
Prerequisites: COMP 01112 and READ 30347

In this course, students learn to teach struggling readers by applying their knowledge of literacy instruction learned in prerequisite coursework. They use assessments and observations to identify students' reading levels. Students are required to use on-going diagnostic teaching techniques to plan, teach, and adjust instruction according to the needs and interests of struggling learners. Process writing is used throughout. As a course requirement, students work in the Rowan Reading Clinic. Students tutor a K-12 student for 20 hours and write a final report.

READ 30451: Supervised Clinical Practice In Reading 3 s.h.
Prerequisites: READ 30421 or READ 30350

Students in this course apply diagnostic, reflective teaching procedures in order to teach struggling readers in a clinical setting. They select materials and instructional strategies that meet the specific needs of the child. Emphasis is placed on on-going, diagnostic teaching that integrates the language arts in instruction that adjusts to the needs and interests of struggling readers. Students will conduct informal reading assessments at the end of the clinic session in order to write a formal report that includes assessment data; students' strengths and needs; and recommendations to parents, classroom teachers, and future tutors for further instruction.

READ 30500: Theory and Practice in Literacy Education 3 s.h.
Prerequisite(s): READ 30510 and READ 30520

This course will examine influential theories and research that address the developmental, cognitive, motivational, literary, linguistic, sociocultural and sociopolitical foundations of reading. The course considers how leading and often competing reading theories developed over time and how seminal research has influenced scholars, practitioners and policy makers. In addition, there is emphasis on research shaping current conversations in the literacy field in which the definitions, purposes and practices of reading depend on reader characteristics (e.g., English Language Learners, economic class and gender), text factors (e.g., print vs. electronic, magazines vs. literature), and contextual considerations (e.g., in-school vs. out of school settings, local vs. federal reading policy).

READ 30510: Teaching Elementary Reading 3 s.h.

READ 30515: Teaching Reading And Writing Across The Grades 3 s.h.

Students acquire a background in current theory and practices related to emerging literacy, word identification, fluency, comprehension, study skills, and recreational reading in grades K-12. The relationships between reading and the other language arts and between reading and other subject areas are addressed. Additionally, students become familiar with various methods, materials and technology used in teaching reading, assessing reading performance, and organizing and managing a reading program in the K-12 classroom. This course is required for those seeking the M.A. in reading education and/or reading specialist certification. Teachers and administrators who wish to increase their knowledge in the K-12 reading curriculum and instruction may also enroll.

Course Descriptions

READ 30520: Content Area Literacy 3 s.h.

This course is designed for reading and non-reading majors interested in increasing knowledge and skills in teaching reading in the content areas. It is a required course for those seeking an M.A. in reading. Instruction is provided in the developmental aspects of reading with little emphasis on corrective or remedial practices. The content of the course may be oriented toward the subject matter areas represented by the students enrolled in the course. Special emphasis is also given to developing vocabulary, comprehension, and study skills as well as to assessing pupil ability to read content material and to select suitable materials for instruction.

READ 30530: Teaching Reading To Exceptional Children 3 s.h.

The primary purpose of the course is to present the philosophy of teaching reading to exceptional children along with the appropriate methods and materials. Major topics include the nature and needs of children who deviate from normal assessment of reading ability, emerging literacy, the role of parents and the child study team, intervention strategies, settings for instruction, word recognition, comprehension and study skill techniques appropriate for exceptional learners, adaptations of methods and materials, and organizational patterns. This course may not be offered annually.

READ 30535: Word Study: Phonics, Spelling, And Vocabulary Instruction 3 s.h.

This course develops understandings for teaching phonics, spelling, and vocabulary in integrated language arts classrooms. The importance of knowing what to teach and when is emphasized. Major topics include: the development of word knowledge from emergent literacy to adulthood, strategies for instruction, the role of assessment, and parental involvement.

READ 30540: Administration And Supervision Of School Reading Programs 3 s.h.

Prerequisite(s): READ 30515 and READ 30520 and READ 30545

The purpose of this course is to examine the role of the reading specialist in planning, developing, supervising, and evaluating reading programs at all levels. Major topics include reading program budget planning, components of an overall reading program, subsystems, special provisions, evaluating teacher performance, planning and conducting in-service workshops, organizational patterns, planning and preparing district materials, and selection and evaluation of commercial materials.

READ 30545: Using Multicultural Literature In The K-12 Reading And Writing Classroom 3 s.h.

This course will focus on reading and actively engaging with a wide variety of multicultural texts for children and adolescents. Multicultural literature will be broadly defined to include an examination of difference that looks closely at those traditionally absent or marginalized in texts for young readers. Course readings will emphasize issues of selection versus censorship and the ability of multicultural literature to provide enjoyment while allowing for the development of cultural awareness/sensitivity.

READ 30547: Teaching Literacy to English Language Learners 3 s.h.

This course with strong research base and specific instructional strategies, covers the essential topics of first and second language acquisition, oral language development, writing, reading, vocabulary, and reading and writing across the curriculum. Educators need to understand K-12 English language learners' literacy and language acquisition as well as instructional practices, approaches, and methods that address different cultural and linguistic backgrounds.

READ 30550: Diagnosis Of Remedial Reading Problems 3 s.h.

Prerequisite(s): READ 30540 and READ 30535 and READ 30530; *Corequisite:* READ 30560

Students in this course will become aware of the factors which influence reading achievement. They will learn to administer standardized and informal tests to individuals as well as to small groups. Furthermore, they will recognize the need to modify some procedures for exceptional learners. Throughout the course, the importance of on-going assessment will be emphasized. Finally, strategies for interpreting and reporting test results will be delineated. As a course requirement, students will administer selected tests to a student and summarize the results in a report.

READ 30552: Selected Topics In Reading 3 s.h.

Such areas as the following are explored: methods and materials for teaching reading and determining reading levels; influencing factors in reading disability; and differences in teaching varied types of children. Demonstrations, hands-on experiences and group work are involved. May not be offered annually.

READ 30557: 21st Century Literacies in Today's Schools 3 s.h.

Prerequisite(s): READ 30500 and READ 30545 and READ 30535 and READ 30530 and READ 30611 and READ 30552 and READ 30547

This course addresses newly defined literacies in the technological world. Candidates will examine a range of theoretical, methodological and practical approaches to identifying and understanding new literacies. They will understand that the demands of 21st-century literacy are more complex and more challenging than earlier periods in history. The course has as its focus communication and collaboration both within and outside the course and across various platforms (e.g., blogs, word press, twitter). Candidates first actively engage in using digital tools themselves, ultimately exploring possibilities with their students in their individual contexts.

Course Descriptions

- READ 30560: Corrections Of Remedial Reading Problems** 3 s.h.
Corequisite: READ 30550 with minimum grade of B
Students in this course become aware of factors that are considered when planning instruction for readers experiencing difficulty. In planning lessons students design and adapt instructional materials, develop computer-based teaching strategies, and implement instructional procedures in an integrated language arts perspective. The course instructor supervises students as they use diagnostic teaching strategies to instruct remedial readers in field-based settings.
- READ 30566: Researching Classroom Practice** 3 s.h.
This course will provide opportunities for students to read and analyze various types of research for the purposes of improving practice. Students will focus on action research by designing a project that includes selecting the issue, determining the data to be collected, data analysis and interpretation, and change of teaching and learning behavior.
- READ 30570: Clinical Experiences In Reading** 6 s.h.
Prerequisite: READ 30560
Students plan and execute reading lessons for groups of remedial readers. They integrate the results of testing, observation and the assessment of reading-related factors in order to devise appropriate sequences of corrective instruction. Students select and use varied teaching strategies, including remedial techniques in order to adjust to the individual needs of their pupils. Following weekly observations, students discuss their performance with the instructor. During the seminar portion of the class, students learn to administer, interpret and evaluate diagnostic instruments. They are taught to use corrective procedures which integrate the language arts and utilize computers.
- READ 30599: Reading Research Seminar I** 1 s.h.
Prerequisite: READ 30560
This course introduces students to the various paradigms in educational research in literacy. The course focuses on qualitative methodological research in education, designing teacher research, writing a literature review, developing a research plan, and obtaining research permissions. The course serves as one course in a two-course sequence for thesis preparation and writing.
- READ 30600: Reading Research Seminar II** 3 s.h.
Prerequisite(s): READ 30570 and READ 30599
The most commonly used techniques employed in educational research are studied. Guided reading and discussion of research articles in reading education are provided. Research studies are analyzed and critiqued with special attention given to the methodology of the studies. Enrollment is limited to matriculated graduate students with permission of the graduate advisor.
- READ 30610: INTERNSHIP-READING** 6 s.h.
- READ 30611: Literacy Assessment** 3 s.h.
Prerequisite(s): None
This course is an examination of various types of literacy problems and the techniques, processes and instruments for assessing literacy. Topics include the administration of a variety of assessment tools and the interpretation of assessment data for selecting instructional methods, facilitating instructional decisions, monitoring students performance, and providing intervention based on informed assessment.
- SECD 03350: Teaching Students Of Linguistic And Cultural Diversity** 1 s.h.
Corequisites: ECED 23446 and ECED 23447 or ELEM 02445 and ELEM 02448 or SECD 03435 and SECD 03436
The issues of inclusion form an integral part of a teacher preparation program. The schooling of all children demands that diversity in multiple forms be addressed in the inclusive classroom, including cultural and linguistic diversity. Knowledge about diversities and the performance of appropriate instructional strategies are emphasized in this course, and attention is directed to the sensitivity needed to assist the learning of students of linguistic and cultural diversity.
- SMED 60550: Schools & Society: Foundations for Secondary Teaching** 3 s.h.
This introductory course addresses a number of foundational questions in the field of education, including: Who goes to school and for what purposes? What is taught and who decides? How are schools organized and who funds them? How are schools different now than they were 100 years ago? What legal precedents and reform movements have shaped education today? How are schools in the United States similar to and different from those abroad? A clinical (field) experience facilitated by the Office of Clinical Experiences is required for all students in this course.

Course Descriptions

SMED 60552: Teaching Content in Diverse Classrooms 3 s.h.
Prerequisites: SMED 60.550

This course will enable Subject Matter Education candidates to gain a multifaceted understanding of the individual and institutional elements that impact student achievement and schooling experience. Candidates will investigate the roles the gender, SES, race, ethnicity, home language, religion, and other identity-based aspects shape school experiences, learning, and achievement. Candidates will then learn about specific approaches and instructional practices that they can use in the classroom to promote learning for culturally and linguistically diverse students, including teaching academic language, differentiating instruction and assessments, and supporting home, community and school partnership.

SMED 60553: Creating Supportive Middle and High School Learning Environments 3 s.h.
Prerequisite: SMED 60.550

This course will enable Subject Matter Education teacher candidates to gain an understanding to the effect of the learning environment on student achievement. Candidates will learn strategies for creating and maintaining a positive learning environment in which all learners can achieve their potential. This course will focus on student-centered instructions that promotes civil discourse and strategies to address non-engagement.

SMED 60560: Curriculum, Instruction & Assessment I 3 s.h.
Prerequisite: SMED 60.553 and Co-requisite: SMED 60.562

The first of two subject-specific methods courses, this class is designed for teacher candidates majoring in English, the social studies, or a world language and planning careers as P-12 teachers. In conjunction with a co-requisitioned residency, this course includes both campus and public school-based experiences dealing with a range of topics necessary to build a functioning learning community, including: subject-specific pedagogy, lesson and unit planning, classroom management, and attention to learning among the diverse populations who attend New Jersey Schools.

SMED 60561: Curriculum, Instruction, & Assessment II 3 s.h.
Prerequisite: SMED 60.650 and Co-requisite: SMED 60.563

The second of two subject-specific methods courses, this class is designed for teacher candidates majoring in English, the social studies, or a world language and planning careers as K-12 teachers. In addition to exploring topics addressed in Curriculum, Instruction, & Assessment I in greater depth, this course places an emphasis on practitioner research, requiring students to develop inquiry questions about their own practice and to collect and analyze relevant data from the field.

SMED 60562: Clinical Practice I 3 s.h.
Prerequisite: SMED 60553; Co-requisite: SMED 60560 OR READ 30520 OR SELN 60577

This course is the first of two state-mandated field experiences required for candidates in the MST Program. Candidates will attend their field placements 3 full days per week during the semester, while taking the co-requisite subjects Curriculum, Instruction, and Assessment I (SMED 60560), Content Area Literacy (READ 30520), and Effective Inclusive Instruction (SELN 60577).

SMED 60563: Clinical Practice II 9 s.h.
Prerequisite: SMED 60562; Co-requisite: SMED 60561

This is the second of the two state-mandated field experiences required for candidates in the MST program. Continuing in their field placement from Clinical Practice I, candidates will attend their field placements 5 full days per week during the semester, while taking the co-requisite subject Curriculum, Instruction, and Assessment II (SMED 60561).

SMED 60564: MST SME Professional Seminar 3 s.h.
Prerequisite: SMED 60.562 and Co-requisite: SMED 60.561

This is the capstone course in the MST SME and will prepare candidates for their teaching positions by focusing on issues critical to new teachers. The course is designed to support candidates in their final transition from teacher candidate to teacher. Topics include understanding school climate, developing a professional development plan, developing a plan for communicating with families, planning for the first six weeks (or unit) of school, and preparing for a substitute teacher.

CJ 05523: Sentencing: Philosophy and Policy 3 s.h.

This graduate level course introduces the student to the broad range of topics inherent within criminal justice sentencing. The course covers the major theories of sentencing, including: retribution, deterrence, incapacitation and rehabilitation. We delve into the philosophy of each major form and examine the moral, ethical and practical limitations and advantages of each. Students examine theoretical and empirical writings and are expected to write a major paper based on a relevant sentencing issue. The course also examines sentencing policy in the United States, and in other countries, with particular attention paid to the intended and unintended consequences of major sentencing initiatives such as: guidelines, recidivist statutes, mandatory penalties and other current sentencing policies.

Course Descriptions

- CJ 09510: Contemporary Issues In Criminal Justice 3 s.h.
This is a graduate level course focusing on understanding the criminal justice system both in terms of the uniqueness of each component (law enforcement, courts, and corrections) and in terms of the complementary nature of the whole, advances and emerging issues in each component of the criminal justice system and in the system as a whole, research related to contemporary issues and the practical applications of said research, and a critical assessment of both the research in the field and the issues facing the criminal justice system.
- CJ 09511: Research Methods I 3 s.h.
This is a graduate level course focusing on understanding various research methods used in criminal justice, the advantages and disadvantages of different research methods (including the appropriateness for hypothesis testing), techniques for conducting research utilizing the appropriate method(s) given a particular question, the ability to critically assess research studies in the field, and the ability to conduct research for a Master's Thesis.
- CJ 09512: Research Methods II 3 s.h.
This course will enable students to understand various statistics and statistical techniques used in criminal justice, to understand the advantages and disadvantages of different statistics, to be able to conduct research utilizing the appropriate statistic given a particular question and/or set of data, to be able to critically assess research studies in the field, and to be able to conduct research for a Master's Thesis.
- CJ 09515: Law And Society 3 s.h.
This course will allow students to understand the basic process for law formation and the obvious and hidden influences on the creation of American law; to understand the role of laws in American society, in part as a reflection of needs, in part as a reflection of public/political desires, and in part as tools of the powerful; to understand how the complexities in law and its relationship to society impact on other aspects of the criminal justice system; and to be able to critically assess the formation of law, the interpretation of law, and the application of law in American society.
- CJ 09516: Administrative Law/Ethics 3 s.h.
This course focuses on the relevance of administrative law and ethics as they relate to the decision making process in criminal justice. Administrative actions and ethical issues permeate the criminal justice system. As such, students will be exposed to Administrative Law, including discussion of key principles of Administrative Law, limiting doctrines, and particular agency rules. Students will also spend time studying ethics. Discussions may include police corruption, prosecutorial misconduct, ethical issues in sentencing, prison corruption, and ethics in the creation and implementation of crime control policy.
- CJ 09517: Criminal Justice Policy Analysis 3 s.h.
This course will enable students to understand the importance of program and policy evaluation, to understand how to evaluate programs and policies with several outcome measures, to be aware of the effectiveness of current criminal justice policies and procedures, and to be able to evaluate a current criminal justice policy or procedure using primary or secondary data.
- CJ 09518: Contemporary Developments In Theory 3 s.h.
This course will allow students to understand the modern development of criminal justice theory, to understand current approaches in theory, including strengths and weaknesses of various theoretical perspectives, to be able to conduct research guided by theory, and to be able to critically assess research studies in the field.
- CJ 09519: Seminar In Criminal Justice Planning 3 s.h.
This course focuses on the techniques of program and policy planning and evaluation. Students will focus on existing criminal justice programs and policies while at the same time learning the process of proper program and policy evaluation. Specifically, students will learn how to plan change through a series of steps: problem analysis, creating time-bound and measurable goals and objectives, designing a program or policy, developing action plans, developing a monitoring plan, developing an evaluation plan and instrument and finally how to initiate the program or policy. Where appropriate, students will conduct their analysis on existing and policies as well as creating their own plans as outlined above.
- CJ 09520: Courts And Supportive Agencies 3 s.h.
This course deals with cases that come from both juvenile and adult courts and which often result in referrals to supportive social agencies. Included are an analysis of the services provided by supportive agencies, such as foster home services, substance abuse services or anger management services, as well as witness decorum while providing reports to a court, such as presentence investigation reports.

Course Descriptions

CJ 09521: Prevention And Rehabilitation 3 s.h.

This graduate seminar will include in-depth study of the theory and research on the causes of criminal behavior; the legal, ethical, and practical issues involved in working with offenders; and classification and treatment in the correctional context. Students will become familiar with the most widely used and effective correctional treatment approaches and empirical research evaluating programs and policies.

CJ 09522: Seminar In Violence 3 s.h.

This graduate seminar will include an in-depth study of current theory and research on the biological, psychological, and sociological causes of violent behavior. It will examine the various types of violent offenses and the impact of these crimes. Students will learn to critically assess the empirical research on the causes and impact of violence, and understand the practical applications of this research.

CJ 09523: White-Collar Crime 3 s.h.

This graduate course will include an in-depth study of white-collar crime. White-collar crime has generally been a neglected topic in criminology and criminal justice, but it has gained more prominence as scholars recognized the costs associated with white-collar crime and the importance of studying it for prevention purposes. The course will cover a range of topics from the definitional issues and the problems involved in measuring and collecting data on white-collar crime to theoretical explanations and the prevention of white-collar crime. Students will learn to critically assess significant research concerning white-collar crime and understand the practical applications of this research. This course will not be offered every semester.

CJ 09524: Police And Society 3 s.h.

This course will focus on the theories and scholarly studies in policing and apply this knowledge to understanding police functions in society. The objectives of this course are to understand the police function both in terms of its nature and its relationship with society, to appreciate advances and emerging theories in policing, and to assess current research in the field and its implications for the police profession. Students are expected to follow the scientific research process to do research, write papers, and have informed discussion of current police policies and practices.

CJ 09525: Altruism, Cooperation, And Criminal Justice 3 s.h.

This course examines the philosophical and empirical data of altruism and cooperation and relates these fields to the study of criminal justice organizations. Specifically, we examine whether it is necessary to "be nice" to work in the criminal justice field. We further examine whether those that are more cooperative and altruistic perform their jobs more effectively and how relationships between client and worker, and worker and supervisor are influenced by altruistic and cooperative tendencies of the individuals. Finally, students will collect, analyze, and summarize original data testing the hypotheses offered within the course.

CJ 09526: Management Of Criminal Justice Organizations 3 s.h.

The course focuses on diagnosing criminal justice organizations based on their: structure, purpose, leadership styles, rewards and motivations, relationships and communication theories, decision-making processes, goals and objectives. Students learn how to assess the effectiveness of various criminal justice agencies based on the aforementioned concepts and will also learn how to integrate planned change to a criminal justice organization. Criminal justice organizations exist in different political and legal environments than private, for-profit institutions and students learn how to assess these differences and gain an understanding of how criminal justice organizations work at the organizational and individual level.

CJ 09527: Gender & Crime 3 s.h.

This graduate course will include an in-depth study of gender issues in criminal justice system. The class will start with a historical view of female criminality and then examine the empirical reality of female offending. Discussions will cover theoretical explanations for female offending and the processing of female offenders throughout the criminal justice system, from arrest to parole. Students will also learn about females as victims of crime and their experiences with criminal justice system. Further, the class will explore the issues faced by female professionals employed within the criminal justice system. Students will also learn how to critically assess the current information on female offenders and victims in order to determine the best way to address their needs and issues.

CJ 09528: Seminar In Juvenile Justice And Delinquency 3 s.h.

This course will examine the biological, psychological, and sociological factors that increase the risk of juvenile delinquency, and how the justice system has reacted to crime committed by young people. Topics such as early intervention, protective factors, diversion, gangs, research based rehabilitation programs, and transfer to adult court will be examined. Students also will learn to critically assess and design evaluations of prevention and rehabilitation programs designed for juveniles.

Course Descriptions

CJ 09529: Community Justice 3 s.h.

This course will examine how the community can work with police, courts, and correctional agencies to prevent crime and rehabilitate and reintegrate offenders. It will examine the effect on implementing community programs of the organizational environment and effective recruitment, screening, and training of community members. Techniques such as participatory management, collaboration, problem solving, and mediation will be examined. Students also will learn to critically assess and design evaluations of community programs.

CJ 09530: International Criminal Law Seminar 3 s.h.

This graduate course will include an in-depth study of international crimes and the international criminal process. It will examine the various types of international criminal offences, the impact they have on the international community, and the international legal consequence for such crimes. Students will learn to critically analyze historical international cases and understand case precedents and their future impact on international criminal law.

CJ 09532: Race, Ethnicity, Class & Justice 3 s.h.

This graduate course will include an in-depth study of race, ethnicity and class, and their evolving impact upon the U.S. criminal justice system, as well as the system's impact on minorities, the poor, and their communities. A major focus of this course will be a critical examination and analysis of how race, ethnicity, and class have impacted the nature, content, and quality of justice that is rendered within the nation. One major purpose of our study is to provide students with an opportunity to gain sophisticated understanding of the inequities that minorities experience within our system of justice and in the wider community. Students will learn to critically assess significant research concerning race, ethnicity and class and the criminal justice system, and understand the practical applications of this research.

CJ 09600: INDEPENDENT STUDY 1 to 6 s.h.

CJ 09601: Master's Thesis In Criminal Justice I 3 s.h.

This course requires students to design and begin implementing their own research project to be used to satisfy the program's thesis requirement. Under the guidance of a member of the Law and Justice Department faculty who agrees to serve as Thesis Advisor, the student will develop a Research Proposal that will consist of an introduction and Statement of the Problem, a Literature Review, a Data and Methods Section, and a brief summary of the proposed research. The student will defend this Research Proposal in front of the Master's Thesis Committee, and will begin implementing the research after obtaining the Committee's approval.

CJ 09602: Master's Thesis In Criminal Justice II 3 s.h.

This course requires students to complete the research project they began in Master's Thesis in Criminal Justice I in order to satisfy the program's thesis requirement. Under the guidance of a member of the Law and Justice Department faculty who has agreed to serve as Thesis Advisor, the student will collect their data or obtain secondary data, analyze the data, and write the results, discussion and conclusion, and references section. They will combine their work from Master's Thesis I and II into a completed thesis which they will present to the Master's Thesis Committee for approval.

LAWJ 05120: Introduction To Security 3 s.h.

This course presents the organization and management of the security function in industry, business, government and institutions. It also covers the protection of personnel, facilities and other assets as well as the administrative, legal and technical problems of loss prevention and control.

LAWJ 05175: Survey Of Criminal Justice 3 s.h.

This general education approved social science elective course deals with the nature of crime and criminal responsibility, and elements of social control. It also surveys the criminal justice process from original law enforcement contact through the judicial and correctional phases. It includes professional roles and opportunities in the criminal justice field.

LAWJ 05200: Introduction To Corrections 3 s.h.

This course studies the historical development of correctional practices in the handling of criminals from early to modern times. Students survey contemporary correctional organized structures and treatment processes, as well as institutional and community based programs and problems.

LAWJ 05201: Introduction To Courts 3 s.h.

This course covers the organization of both the state and federal court systems; the management and administration of those courts; the relationship of courts to the police, corrections, and community; the criminal trial process, including pre-trial and post-trial processes; and the judiciary and judicial power, including the areas of separation of powers and judicial behavior.

Course Descriptions

LAWJ 05202: American Police 3 s.h.

This course covers the philosophy and history of the police role in society. It surveys organizational forms and basic procedures of police work; police ethics and professional preparation for law enforcement; and, major police problems confronting the police today.

LAWJ 05205: Minorities, Crime And Criminal Justice 3 s.h.

In this course students critically examine the involvement of minorities with crime in the U.S. both as perpetrators and victims. Additionally, they will be afforded the opportunity to understand, critically examine, and apply significant theoretical perspectives for the study of minority criminality. They will develop an understanding of the impact of race and class within the law-making process, the content of the law, and the quality of justice afforded minorities within the American criminal justice system.

LAWJ 05210: Restorative Justice 3 s.h.

This course surveys the major theoretical and applied concepts of Restorative and Community Justice. Students will examine how the Restorative and Community Justice processes differ from the traditional, retributive criminal justice system and how Restorative Justice models attempt to benefit the victim, offender and the community. Some of the issues to be covered are: informal justice practices, reintegrative shaming, forgiveness and resentment, and the efficacy of Restorative and Community Justice initiatives. Additionally, students may have opportunities to interact with adjudicated youth from New Jersey's Restorative Justice Project.

LAWJ 05220: Victimology 3 s.h.

This course gives students insight into the "forgotten" party in a crime, the victim. The course covers victims' rights in the Justice System with specific coverage of the following: the social, economic and racial impacts of crime on victims; victims and courts; police reaction to victims; restitution; offender accountability and the dramatic increase in victims programs and services.

LAWJ 05255: Criminal Law 3 s.h.

This course offers a comprehensive review of the major common law and statutory crimes including homicide, rape and all related personal and property offenses. The students will be introduced to domestic violence offenses. Considerable attention is given to the social, moral and constitutional frameworks of the criminal law with a review of recent and standard judicial interpretations. It also offers a review of defenses and mitigation.

LAWJ 05274: Criminal Justice And Community Relations 3 s.h.

This is a broad-based course on the relationship between the community and crime and the criminal. The course covers such topical areas as police-community relationships, the culture of the inner city, human service delivery systems, the role of citizen and business groups and the criminal justice system, and the various ways in which criminal justice agencies have an obligation to the community at large.

LAWJ 05276: Parole, Probation And Community Corrections 3 s.h.

A comprehensive review of the noninstitutional response to criminal behavior, this course covers probation, parole and community corrections in depth. It includes topics like work release, education release, half-way houses, drug and alcohol centers, legal aspects of these processes and the effectiveness of these programs.

LAWJ 05285: Criminal Investigation 3 s.h.

Students study the criminal investigation process. Analysis of problems encountered in interviewing, interrogating and investigating is included. The course covers investigative techniques that may be applied to investigative problems and develops application of criminal investigation theories to the administration of justice.

LAWJ 05290: Forensic Law 3 s.h.

This class offers a comprehensive analysis of legal issues involving forensic techniques in the justice systems. This course examines the importance of admissibility, relevance and materiality as it relates to the evidence and the various experts in Forensics. The topics include bloodstain patten and trace evidence, pathology and gunshot wounds, DNA fingerprinting, micrography, postmortem determinations and case studies in Forensic Science.

LAWJ 05305: Law And Evidence 3 s.h.

This course covers the basic principles of criminal evidence, including burdens of proof, judicial notice, presumptions, testimonial privileges and hearsay; the rule of exclusion of evidence, confessions, identifications and electronic eavesdropping; and the use of physical and demonstrative evidence including fingerprints, exhibits, photographs, documents and writings, scientific evidence and the polygraph.

- LAWJ 05310: Criminal Jurisprudence 3 s.h.
 Students study the history and philosophy of modern criminal law. This course covers problems of contemporary jurisprudence and especially the typology of constitutional issues as it relates to due process and its requirements.
- LAWJ 05312: Criminal Procedure II 3 s.h.
 This course will examine the legal procedures by which the criminal justice system operates. Students will assess United States Supreme Court opinions so as to explore issues related to the Fourth, Fifth, Sixth, Eighth, and Fourteenth Amendments to the Constitution, including pre-trial processes, speedy trial, the prosecution function, bail, the identification of suspects, the right to counsel, the adjudication process, the law of confessions and interrogation, and the privilege against compelled self-incrimination. This course has two primary objectives. The first is to introduce students to the analysis of judicial opinions, a primary source of law in the American legal system. The second is to become familiar with both the fundamental doctrines of constitutional criminal procedure and the important policy issues that emanate therefrom.
- LAWJ 05315: Criminal Justice And Social Conflict 3 s.h.
 This course covers the major crises in our basic American institutions. Students examine the various aspects of social mobility, population explosion, social stratification, sex revolution, militarism, and the generation gap as they relate to problems of social justice in our society.
- LAWJ 05320: Civil Aspects Of Law Enforcement 3 s.h.
 Students undertake an analysis of those areas in civil law with which law enforcement professionals frequently encounter. Topics include family law, torts, administrative and environmental issues, property disputes, liens, business and consumer transactions.
- LAWJ 05322: Drugs And Crime In America 3 s.h.
 This course explores and analyzes the relationship between illegal drugs and crime and all the relevant issues and ramifications. These include, but are not limited to: national and international trafficking, control of the problem, legalization, and explanations for drug use.
- LAWJ 05324: Sentencing And The Rights Of The Convicted 3 s.h.
 Students explore, analyze, and critique the relevant structures, processes, and impacts of criminal sentencing and sentences. The course is designed to examine critically the relevant political, philosophical and social driving forces of change and their impacts on the system and society.
- LAWJ 05325: Comparative And International Criminal Justice 3 s.h.
 The course is an introduction to comparative and international criminal justice. It compares the criminal justice system in the United States with other national systems in the five continents and major regions of the world. Areas examined include crime, criminal law, policing, court processes, and corrections. This course also provides an introduction to the globalization of crime including terrorism, drug trafficking, human smuggling, and war crimes and the development of domestic and international efforts in fighting these crimes. The goal of this course is to help students develop comparative and international perspectives in addressing problems facing the criminal justice system.
- LAWJ 05326: International Terrorism 3 s.h.
 This course explores the historical development of international terrorism and provides a foundational knowledge of current terrorist groups and their tactics. Specifically, this course introduces the student to the definition, origin, and evolution of international terrorism; the roles of world-views, ideologies, mind sets, and motivations; and the different types of terrorism. Students will also study the organization, tactics, operational capabilities and threats posed by terrorist groups. Finally, the course will introduce the current status of anti- and counterterrorism efforts in the United States.
- LAWJ 05330: Problems In World Justice 3 s.h.
 This multidisciplinary course examines the principles of justice and their application to the criminal justice system and society at large. Additionally, a critical examination of significant issues and concerns of world justice will be offered.
- LAWJ 05335: Criminal Procedure I 3 s.h.
 This course will examine the legal procedures by which the criminal justice system operates. Students will assess United States Supreme Court opinions so as to explore issues related to the Fourth Amendment to the Constitution, including search and seizure of premises and persons, the arrest and detention of suspected criminals, and the remedies available for constitutional violations. This course has two primary objectives. The first is to introduce students to the analysis of judicial opinions, a primary source of law in the American legal system. The second is to become familiar with both the fundamental doctrines of constitutional criminal procedure and the important policy issues that emanate therefrom.

Course Descriptions

- LAWJ 05337: Treatment Of The Offender 3 s.h.
This course covers the major therapeutic approaches to the correction of criminal and delinquent behavior and a review of processes and procedures of corrections and of research on the outcome of various treatment approaches. Students analyze the ethical and legal problems related to rehabilitation in a correctional setting.
- LAWJ 05342: Counseling And Guidance Of The Offender 3 s.h.
A survey of basic principles and techniques of counseling of offenders, this course includes interviewing, case conferences, case histories, individual and group counseling, classification procedures, and team treatment participation.
- LAWJ 05346: Women, Crime And Criminal Justice 3 s.h.
This course covers the many facets of women, crime and criminal justice, including past and present trends of female crime along with its relationship to the three major components of the criminal justice system: police, courts and corrections. Furthermore, this course addresses gender as a significant variable in all aspects of society, both criminal and non-criminal.
- LAWJ 05356: Criminal Justice Internship I 3 to 6 s.h.
Prerequisites: COMP 01112 or HONR 01112
This course provides practical immersion in a criminal justice-related agency for pre-service students; this course will for in-service students (law enforcement, courts and corrections personnel) involve placement in a social service related agency, or a research paper. A criminal justice related cooperative education experience may be substituted for the internship. In unusual circumstances other coursework may be substituted for the internship; this requires the approval of the department chair. (Implemented Spring 2004)
- LAWJ 05361: Introduction To Juvenile Justice 3 s.h.
This course covers the history and philosophy of the juvenile justice system, which includes the development of the system through the 19th and 20th centuries and the decisions rendered by the United States Supreme Court. The student also scrutinize the various steps in the police, courts and corrections stages of the juvenile justice system.
- LAWJ 05369: Theories Of Crime And Criminality 3 s.h.
Prerequisite(s): LAWJ 05175 and 6 credits of Law and Justice Courses
In this course students explore the extent of crime and delinquency in the United States and the full range of relevant theories of causation. They also synthesize and apply appropriate theories to such concepts and topics as race, social class, gangs, drugs, family, schools, and neighborhoods.
- LAWJ 05379: The "Political Prisoner" 3 s.h.
This course examines the causes and significance of the political prisoner concept on the criminal justice system generally and the U.S. prison systems specifically. The course deals with varying perceptions of different segments of the population about the existence and scope of this phenomenon in depth.
- LAWJ 05380: Criminal Justice Research 3 s.h.
Prerequisites: LAWJ 05369
Students study the basic principles of research and statistics. This course undertakes a review of contemporary criminal justice research projects, emphasizing evaluation of journal studies and basic planning and writing of the research paper.
- LAWJ 05381: Crime Mapping and Crime Analysis I 3 s.h.
This course introduces students to the fundamentals of crime mapping and crime analysis. This hands on course teaches students how to use databases, spreadsheets and other tools to analyze crime, produce crime analysis products for police commanders and how to effectively communicate analysis results to decision-makers. Emphasis is placed on using the analyses that are learned to influence the thinking of police decision-makers so that they can implement effective responses to crime and disorder problems.
- LAWJ 05392: Criminal Justice Administration 3 s.h.
This course provides upper level students with the concepts, theories, and principles of managing and administering criminal justice organizations. The content of the course is applied to police, courts, and corrections agencies and gives the student a total system approach to the subject.
- LAWJ 05395: The Incarceration Experience 3 s.h.
This course focuses on the exploration of various aspects of incarcerating criminals. It includes the history of incarceration, the prisonization process, prison subcultures, violence and victimization, and the underground prison economy.

Course Descriptions

- LAWJ 05401: Law And Human Rights** 3 s.h.
Prerequisite(s): LAWJ 05175 and 6 credits of Law and Justice Courses
This course reviews individual civil rights and liberties in detail with a particular emphasis on federal-state legislation on discrimination, substantive and procedural due process materials and 1st amendment problems. Specific attention is given to the role police, courts and correctional systems play in the enforcement and enhancement of such rights.
- LAWJ 05415: Selected Topics In Criminal Justice** 3 s.h.
This course promotes intensive research and analysis in Special Topics in Criminal Justice. Students engage in either theoretical or applied research in topics that can be mutually agreed upon between faculty and student. Topics will vary but may include female criminality, XYY theory, insanity, mental health and the justice systems, advanced security systems or radical criminology.
- LAWJ 05469: Seminar In Law/Justice - Wi** 3 s.h.
Prerequisites: LAWJ 05175, LAWJ 05255, LAWJ 05380, one of: LAWJ 05200, LAWJ 05201, or LAWJ 05202 and senior standing.
This seminar will cover topics relating to how law and justice are put into practice by the police, courts, and corrections system. Important issues affecting society and the criminal justice system as a whole will be examined in depth. Students will be expected to read scholarly work exploring these issues; participate in class discussions; conduct library research; write short, informal memos and a senior level research paper; present oral reports on their research; and demonstrate their understanding of assigned readings and the research reported by classmates in a final examination.
- BUS 01505: MBA Supervised Internship** 3 s.h.
This course requires a field experience in government, business, industry or non-profit organizations. Students complete assignments that prepare them for productive employment upon graduation. The MBA faculty member will partner with each employer and student to define and enrich the student's work experiences and to monitor and assess the learning process. This course is integral to the MBA Program and Supervised Internship credits cannot be used to substitute MBA elective credits.
- BUS 01518: Integrative Managerial Skills** 3 s.h.
This course serves as a keystone course for the M.B.A. program. Key skills, tools, and issues necessary for further study will be developed and extended. Course topics and techniques include information systems, financial ratios, behavioral, presentation, team building, quantitative analysis, critical thinking, written communication, legal and ethical issues, and library research including electronic data bases and internet research.
- BUS 01521: Integrative M.B.A. Seminar** 3 s.h.
A capstone course for the M.B.A. program, it aids students in reinforcing and integrating core courses by studying strategic audits and process analysis techniques. Student projects will use teams to analyze how organizations use people, operational management, information systems and financial measurements to achieve strategic and operational effectiveness.
- BUS 01550: INDEPENDENT STUDY** 1 to 4.5 s.h.
- BUS 01600: Special Topics In Business Administration** 3 to 6 s.h.
Students will study advanced level topics in specific disciplines as identified through participation in indepth seminars on topics to be determined by faculty in consultation with the Graduate Committee of the College of Business. Students will complete research or projects on specialized topics in various disciplines in Business Administration. Students may take each topic only once. This course may not be offered annually.
- ENT 06504: Strategic Project-Based Experience** 3 s.h.
This course is designed to provide strategic focused field based project learning experiences and opportunities for graduate students by affording them the opportunity to work with a wide variety of public and private organizations. The course uses a team-based approach to offer consulting advice to organizations with the goal of improving their performance. The emphasis in the course is on experiential approaches that provide a participative type of learning about the crucial issues faced by organizations. This course is interdisciplinary in nature and open to all graduate students.
- ENT 06505: Entrepreneurship And Innovation** 3 s.h.
Prerequisites (effective Spring 2009): ACC 03500 and MGT 06502 and MKT 09500
This course provides a broad framework for understanding the nature of entrepreneurship in multiple organizational settings. The course introduces students to the innovation and idea generation process and helps students apply an alternative way of "thinking" to assist in solving difficult issues for government, business, and the non-profit sector.

Course Descriptions

- ENT 06506: Corporate Entrepreneurship And New Venture Development 3 s.h.
This course provides an overview of the potential for innovation and entrepreneurial opportunities or new ventures within a corporate environment. The course covers various aspects of corporate entrepreneurship and new venture development. Major topics include understanding the corporate entrepreneurial revolution, learning about the nature of entrepreneurship within established organizations, understanding the requirements for setting up an environment conducive to new ventures within a corporate setting, and learning about the entrepreneurial direction of firms as they grow and evolve. Among the issues discussed are application of entrepreneurship to established firms, the disparity between start-up and corporate entrepreneurship, the role of creativity within corporate entrepreneurship, the relation to product innovation and technology, the importance of corporate strategy within an entrepreneurial framework, and what it takes to create an entrepreneurial culture.
- ENT 06599: Special Topics In Entrepreneurship 3 s.h.
Students will study advanced level topics in Entrepreneurship. The exact topics will change over time to remain relevant as practices in industry and markets evolve. Contact the MBA office for additional details.
- HRM 06500: INDEPENDENT STUDY:HRM 1 to 6 s.h.
- HRM 06598: Special Topics In Human Resources Management 3 s.h.
Students will study advanced level topics in Human Resources Management. The exact topics to be covered will change over time. Contact the MBA office or Management and MIS Department for details.
- HRM 06605: Strategic Human Resource Management 3 s.h.
Prerequisite(s): Admission into the MBA Program or Admission into the Certificate of Advanced Graduate Study (CAGS) in Business Management
Strategic Human Resource Management consists of planned organizational activities designed to increase organizational effectiveness and equity. This course outlines the transformation of HRM from a clerical function to an important strategic partner of top management. It focuses on the ability of HRM to provide a source of competitive advantage to forward-thinking organizations.
- HRM 06688: Human Resource Management In Health Promotion 3 s.h.
Prerequisite: Admission into the Master of Health Promotion Management (MHPM) program.
Human resource management consists of planned organizational activities that are designed to improve efficiency and equity. In this class, health promotion professionals will develop their capabilities as human resource managers and will enhance their appreciation of human resource management professionals who make the strategic choice to promote employee health.
- MGT 01510: Professional, Legal and Managerial Responsibilities 3 s.h.
Admission into the MBA program or admission into the COGS in Business.
In that business leaders have become personally and professionally responsible for the legal and ethical behaviors of the individuals within their organizations, the need for formal training in ethical and legal decision making is essential. In this course students will learn how to effectively apply a variety of legal and ethical frameworks within the global marketplace. Students will also learn appropriate and effective legal and ethical issue reporting practices, principles and responsibilities.
- MGT 06300: Organizational Behavior 3 s.h.
Prerequisite(s): Junior standing and matriculation in the Business minor or a Business major
This course examines human relations in management. The course studies the concern for both task and process in the light of structure, goals and human relationships found in organized efforts. It also covers the application of new management theories in the areas of motivation, leadership and group problem-solving by a variety of means, including simulation, case studies, and role playing.
- MGT 06304: Organizational Change And Development 3 s.h.
Prerequisite(s): MGT 06300 or PSY 08220 or CMS 04260 and Admission to any Business major or CUGS in Management & Leadership or CUGS in Training & Development
This course studies factors that facilitate or inhibit organizational change as well as research findings and theory which deal with methods for diagnosing organizational climate, and selecting and utilizing techniques for bringing about change and overcoming resistance to change. It also analyzes and evaluates roles and strategies used by change agents to initiate structure and direct organizational change.

Course Descriptions

- MGT 06305: Operations Management 3 s.h.
Prerequisites: Grades of C- or better in: STAT 02260 AND(MATH 01130 OR MATH 03125 OR MATH 01140)
This course provides a critical study of the operational functions of the business enterprise. Its topics include capital costs and investment criteria, plant location and layout, process planning and production design, job designs, work methods and cost controls.
- MGT 06310: Leadership And Supervision For Managers 3 s.h.
Prerequisite(s): MGT 06300 and Admission to the Management major or CUGS in Management and Leadership
The course is designed for undergraduate business students. Course content will cover the theories of business leadership and supervision- with the focus on first line supervisors. Students will focus on the theory and acquisition of various business leadership and supervisory tasks and skills necessary to work with other business managers in a global market world and to supervise workers with diverse backgrounds. These business skills will include establishing workplace goals, organizing work units for productivity, conducting interviews, giving feedback to subordinate employees, designing and implementing employee motivation programs, and supervising workteams. By the end of the course, students will be able to effectively diagnose the complex dynamics of leadership and supervision in business environments and take action as leaders and supervisors to improve individual and organization performance.
- MGT 06402: Business Policy 3 s.h.
Prerequisites: CS 02334 or MIS 02334 and MGT 98242, MKT 09300, MGT 06300, MGT 06305, FIN 04300 and Senior Standing
This capstone course in business policy provides students with an opportunity to integrate what they have learned in separate business fields and use this knowledge in the analysis of complex business problems. There is an emphasis on the skills of identifying, analyzing and solving problems which are not pre-judged as being marketing problems, finance problems, etc. Students are encouraged to consider issues from the viewpoint of general management rather than as a functional specialist or researcher.
- MGT 06500: Designing, Developing, And Leading High Performance Organizations 3 s.h.
Students will study and develop skills in interpersonal behavior in organizations and groups. They will learn about issues in leadership, how groups function, elements of power and influence, conflict management, management of time and stress, creative and rational problem solving in groups. In addition, they will study theories of motivation and methods of empowerment in organizations.
- MGT 06501: Advanced Operations Management And Strategy 3 s.h.
Prerequisite: Admission to an MBA program
This course is designed to familiarize students with the complexities of operating a manufacturing, as well as a service, organization. The focus is primarily on gaining a competitive edge by improving functions of operations management. Concepts and tools pertaining to business forecasting, operations decision-making, resources allocation, location and capacity planning, inventory control and management, facility layouts, scheduling, project management, and quality control and management will be covered. Case studies and team projects will also be used to provide practical applications in a realistic business context.
- MGT 06502: International Business And Society 3 s.h.
This course addresses numerous aspects of the increasingly global business environment and implications for business organizations and key stakeholders. Frameworks for comparing political, legal, social, economic, and governmental differences across nations are utilized. Macro issues include trade theories, trade regimes, roles of governments and global institutions. Strategies and structures adopted by various types of international firms and functional approaches to international finance, management, and marketing are also included.
- MGT 06503: Organization Development 3 s.h.
Students study the application behavioral science in the management of planned organizational change and development. In addition to the analysis of issues facing the change agent, students also develop skills in implementing and intervening in the effort to improve organizational effectiveness. This course may not be offered annually.
- MGT 06507: Manufacturing and Service Operations Management 3 s.h.
Prerequisite(s): Admission into the MBA program or Business COGs
This course provides an introduction to the field of manufacturing and service operations management. The course aims to familiarize students with the set of business activities whereby resources, flowing within a defined system, are combined and transformed to add value in accordance with organizational objectives. OM is one off the three major functions of any organization, and it is integrally related to all the other business functions in the context of manufacturing and services. The focus of this course is to provide the students with the tools, technologies, and processes they need to improve their organization's profitability and service by adhering to the ethical norms of the society.

MGT 06510: Strategic Engineering Management 3 s.h.
 The course introduces engineers to the concepts and application of strategic planning specifically to the roles and responsibilities of the engineering function in the strategic planning process for high-tech firms.

MGT 06519: Leadership In Health Promotion 3 s.h.
 The course is designed for graduate students in the M.A. in Wellness and Lifestyle Management program. Course content will cover the theories of leadership in health promotion and the focus of this course will be on leadership from a variety of perspectives - - health organizational leadership in the external environment, as well as leadership at the top, middle and lower levels inside organizations. Students will focus on the theory and implementation of various health leadership tasks and responsibilities including working with other leaders in a multinational world, supervising workers with diverse backgrounds. These leadership skills will include establishing workplace goals, organizing work units for productivity, conducting interviews, giving feedback to subordinate employees, designing and implementing employee motivation programs, changing organization culture, the capacity to lead globally, leading work teams and managing workforce diversity. By the end of this course, students will be able to effectively diagnose the complex dynamics of leadership in health organizational environments and take action as leaders and to improve individual and health organization performance.

MGT 06520: Global Leadership And Organization Culture 3 s.h.
 The course is designed for graduate business students. Course content will cover the theories of business leadership and the focus of this course will be on leadership from a variety of perspectives—organizational leadership in the external environment, as well as leadership at the top, middle and lower levels inside organizations. Students will focus on the theory and implementation of various business leadership tasks and responsibilities including working with other leaders in a multinational world, supervising workers with diverse backgrounds. These business skills will include establishing workplace goals, organizing work units for productivity, conducting interviews, giving feedback to subordinate employees, designing and implementing employee motivation programs, changing organization culture, the capacity to lead globally, leading work teams and managing workforce diversity. By the end of the course, students will be able to effectively diagnose the complex dynamics of leadership in business environments and take action as leaders and to improve individual and organization performance.

MGT 06521: Leadership Theory and Practice 3 s.h.
Prerequisites: Graduate Standing or Permission from Instructor.
 The elective course is designed for graduate in MBA Management program students. Course content will cover the theories of leadership and practice. The focus of this course will be on a leadership influence on organizational concept and practices from a variety of perspective in the external environment, as well as leadership at the top, middle, and lower levels inside organizations. Students will be able to perform analysis of the dark side of leadership, destructive patterns of leadership behavior, and multiple intelligences. Furthermore, students will be able to understand the psychology of leadership, including the role of personality, employee motivation, and dealing with difficult people, importance of ethics, empowerment of employees, managing diversity in the work culture, the theory of creating a powerful vision, helping employee through change and burnout prevention, leadership in negotiation and alliances, leading and developing teams, and understand professional performance and sustaining discipline. By the end of the course, students will be able to effectively diagnose the complex dynamics of leadership, provide execution for organizational success, use effective theory, alignment, prioritization, in organizational environments and take action as leaders to improve individual, organization performance, and profitability.

MGT 06555: Personal Leadership 3 s.h.
Prerequisite: Graduate Standing
 The emphasis of this new course will be on developing core leadership principles and their application in a leadership context. Particular emphasis will be on the conceptualization of personal leadership development, developing personal strategies and planning, developing personal leadership theory, developing personal leadership decision making process, developing personal motivation, developing personal empowerment, developing personal leadership change process, developing personal leadership coaching, developing personal leadership governance and implementation, and effectively and efficiently lead organizations or industry.

MGT 06599: Special Topics In Management 3 s.h.
 Students will study advanced level topics in management. The exact topics to be covered will change over time. Contact the MBA office or Management and MIS Department for details.

MGT 06601: Strategic Planning For Operating Managers 3 s.h.
 This course prepares the operating manager for the responsibilities of performing strategic planning. The course will identify what goes into and how strategic planning is performed. Strategy formation and evaluation will be assisted by computer decision models and management games. The interrelationships of organizational units and pro-active management posture with respect to environmental forces will be stressed. This course may not be offered annually.

Course Descriptions

MGT 06603: Business Processes And Improvement 3 s.h.
Prerequisite: MKT 09575

This course introduces the fundamental Lean Six Sigma principles that underlay modern continuous improvement approaches for industry, government and other organizations. Six Sigma is a quality system developed at Motorola which focuses on elimination of variation from all processes. The basic principles have been applied to a wide range of organizations and sectors to improve quality, productivity, customer satisfaction, employee satisfaction, time-to-market and financial performance. In this course, students will learn how lean, six sigma, and ERP systems improve business processes.

MGT 06629: Managing Organizational Strategy 3 s.h.
Prerequisites: Completion or Concurrent with Financial Decision Making (FIN 04500) AND Designing, Developing and Leading High Performances Organizations (MGT 06500), International Business and Society (MGT 06502), AND Marketing Management (MKT 09500) OR Permissions of Instructor.

As understanding organizations in the context of their general and competitive environments is vital, future managers must learn how to utilize the perspectives and frameworks designed for strategic analyses and decision making. In this course students will learn how to conduct analyses across organizational functions and levels and effectively manage goals and strategies for different types of organizations.

MGT 06666: Managing Engineering Teams 3 s.h.

MGT 06677: Management Skills For Engineers 3 s.h.
Prerequisite: Admission to the Master of Engineering Management Program

Technical skills are necessary but insufficient for success in engineering management. It is also necessary for engineering managers to be effective motivators and leaders. In this course, students will also learn optimal techniques of hiring and rewarding engineers.

MGT 07500: Managerial Decision Making Tools 3 s.h.

This course requires the application of analysis and decision making tools in a business setting, with emphasis on the evaluation of problems facing the modern firm in a changing global marketplace. It provides in-depth coverage of analytical tools that are invaluable to the entrepreneur/manager as he or she is confronted with strategy and implementation decisions in a competitive world.

MGT 07600: Predictive Analytics 3 s.h.

This course is designed to acquaint the graduate student with the advanced statistical forecasting techniques. Upon completion of the course, the student should be able to identify a forecasting problem, gather data and use computerized statistical packages to obtain solutions, analyze results, determine the validity and reliability of the model, and if necessary, recommend alternative methods to solve the model. This course may not be offered annually.

MGT 07601: Six Sigma 3 s.h.
Prerequisite: MGT 07500

As an improvement methodology that reduces product waste or service failure rates to near perfection, Six Sigma utilizes a disciplined, data-driven approach. Six Sigma practitioners use data to monitor, control, and improve operational performance by eliminating and preventing defects in products and associated processes, including management, service delivery, design, production and customer satisfaction. Lean Six Sigma helps eliminate not only product defects, but six other forms of waste. This course will give a complete overview of the Six Sigma process and prepare students for its management and methodology/

MGT 98242: Legal Environment Of Business 3 s.h.
Students in this course examine the legal process and the legal environment within which business must operate, as well as the interrelationship of government and business. Students develop an understanding of the methods by which legal decisions are formulated as they affect both individual rights and business transactions.

BUS 01303: Business Practicum 3 s.h.

BUS 01401: Issues in Business: Directed Research (WI) 3 s.h.
Pre-reqs: COMP 01.III, COMP 01.II2, BUS 01.101 COLLEGE COMP 1 & 2 AND BUSINESS PERSPECTIVES OPEN ONLY TO LIBERAL STUDIES: HUMANITIES AND SOCIAL SCIENCES MAJORS

An upper-division course for students in Liberal Studies: Humanities & Social Sciences, Sequence B Perspectives of Business, Issues in Business: Directed Research is a course that focuses on the current issues and trends in business as found in the business media. The course is designed to allow students to explore areas of personal interest through the collection of research and the presentation of such material in written and spoken formats.

Course Descriptions

- MIS 02150: Integrated Business Software Tools-RS 3 s.h.
Students will expand their use of integrated software tools that include database management systems, spreadsheets, and other business applications. They will apply these tools to actual business decision-making situations by means of case studies and research projects.
- MIS 02234: Management Information Systems 3 s.h.
Prerequisites: 15 earned credits required and MATH 01123 or MATH 03125 or MATH 01130 or MATH 01140 or STAT 02260 or College Level Math test with minimum score 60
Information systems are an integral part of all business activities and careers. This course is designed to introduce students to contemporary information systems and demonstrate how these systems are used throughout organizations. This course focuses on the key components of information systems - organizations, people, software, hardware, data, and telecommunications - and how these components can be integrated and managed to create competitive advantage. Students will gain hands-on experience with business software tools commonly applied to business data analysis and database management. It is expected that students entering this class have completed College Algebra or its equivalent.
- MIS 02338: Design Of Database Systems 3 s.h.
Prerequisite: Junior standing
This course explores the fundamentals of designing a database for a business organization. It emphasizes the relational model; however, the course also explores the hierarchical and network models. Additionally, the course covers such topics as recovery, integrity, security, concurrency, distributed databases, data dictionaries and the role of the database administrator.
- MIS 02500: Issues In Management Information Systems 3 s.h.
Prerequisite: Admission to the MBA Program or admission to the COGS in Business or admission to the COGS in MIS
Information technology and systems are pervasive in business today and will become more so in the future. Therefore, this course is designed to provide skills for managing this changing environment. The primary focus of the course is on the management of technology. The management of technology and systems is not left solely to information systems professionals; it is the responsibility of all managers.
- MIS 02510: EXPERT SYS BUSINESS 3 s.h.
- MIS 02511: ERP Systems For Management 3 s.h.
Prerequisites: Admission to MBA, COGS in MIS, or CAGS in MIS programs
Students will learn the various key business processes, the role of enterprise resource planning systems (ERPs) in integrating and supporting these processes, and the many challenges an organization faces during implementation and management of such systems. There will be hands-on computer laboratory exercises where students will gain experience in executing the key business steps and extracting meaningful information about the business processes using a well-regarded ERP software solution.
- MIS 02515: Electronic Commerce 3 s.h.
Prerequisite: Admission to the MBA Program or Admission to Certificate of Graduate Study (COGS) in MIS or Admission to Certificate of Advanced Graduate Study (CAGS) in MIS
This course will introduce students to electronic business. It will cover such diverse issues as: e-commerce payment mechanisms, encryption and authentication of data, web assurance, electronic data interchange, legal issues on the web, and web marketing. There will also be a lab component that will provide students with exposure to and practice in web page design and creation.
- MIS 02522: Systems Analysis And Design 3 s.h.
Prerequisites: Admission to the MBA Program OR Admission to Certificate of Graduate Study (COGS) in MIS OR Admission to Certificate of Advanced Graduate Study (CAGS) in MIS
This course explains the methodology and techniques in analysis and design of computer information systems. The systems analyst, the architect of information systems, is a liaison between user and programmer. The roles and responsibilities of the systems analyst are emphasized at all stages of the systems development life cycle.
- MIS 02525: Project Management 3 s.h.
Prerequisites: Admission to the MBA Program OR Admission to Certificate of Graduate Study (COGS) in MIS OR Admission to Certificate of Advanced Graduate Study (CAGS) in MIS
In this course, students will learn the Project Management Body of Knowledge (PMBOK) as put forward by the professional association, the Project Management Institute (PMI). Students will not only study the various phases and documents of project management, they will also have experience creating each of the documents for a given project.

Course Descriptions

- MIS 02526: Project Management For Engineers 3 s.h.
In this course, students will learn the Project Management Body of Knowledge (PMBOK) as put forward by the professional association, the Project Management Institute (PMI). Students will not only study the various phases and documents of project management, they will also have experience creating each of the documents for a given project.
- MIS 02528: Business Application Design And Development 3 s.h.
Prerequisites: Admission to MBA, COGS in MIS, or CAGS in MIS programs
Students will design, create, and maintain web applications that: dynamically display content from relational and hierarchical databases, provide transaction processing from procurement to fulfillment, connect to and share internal data with supply chain partners (extranet), afford ubiquitous access to internal data via secure channels (intranet). Students will gain experience working with integrated software development tools, various programming languages, and many web-based business standards.
- MIS 02538: Database Design 3 s.h.
Prerequisites: Admission to the MS in Bioinformatics, MBA, COGS in MIS, or CAGS in MIS programs
This course explores the fundamentals of designing a database. It emphasizes the relational model; however, the course also explores the hierarchical and network models. Additionally, the course covers such topics as data insertion, modification, and extraction using SQL. CASE tools and database management tools will be employed.
- MIS 02599: Special Topics In Management Information Systems 3 s.h.
Prerequisite(s): Admission to the MBA Program or Admission to Certificate of Graduate Study (COGS) in MIS or Admission to Certificate of Advanced Graduate Study (CAGS) in MIS
Students will study advanced level topics in Management Information Systems. The exact topics to be covered will change over time. Contact the MBA office or the Management and MIS Department for details.
- MKT 09200: Principles Of Marketing 3 s.h.
Prerequisite(s): COMP 01105 or COMP 01111 and 12 Credits completed
This course provides an overview of the theory and practice of marketing within a corporate and societal context in a dynamic environment. The major functions of marketing are covered from the perspective of management strategy seeking competitive advantage.
- MKT 09375: Business Logistics 3 s.h.
Prerequisite(s): MKT 09200 and Junior status or C918 Systems Engineering Concentration.
This course focuses on the logistics of physical distribution and supply chains. Topics include traffic routing, inventory analysis and control, warehousing, location of production and storage facilities, and transportation.
- MKT 09379: International Marketing 3 s.h.
Prerequisites: MKT 09200 with a minimum grade of C- and Junior status
Basic marketing concepts as they relate to foreign markets are analyzed in depth in this course. Two approaches are used: the environmental approach introduces the setting in which international marketing takes place; and the managerial approach incorporates marketing strategies of firms that choose to venture abroad.
- MKT 09500: Marketing Management 3 s.h.
Prerequisite: Admission to the MBA Program or COGS in Business
This course focuses on managing the marketing function in a dynamic, competitive environment in coordination with other organizational functions to enhance the overall performance of an organization. Attention will be devoted to the design of strategies for the achievement of competitive advantage in product/service offerings, pricing, promotion and distribution. Students will build upon their existing knowledge base of marketing concepts and will develop or extend competencies in analytical decision-making, ability to identify market opportunities, and ability to develop and evaluate marketing plans.
- MKT 09501: Consumer Analysis 3 s.h.
Students will conduct detailed analyses of consumer and/or business markets. After examining a range of conceptual materials and research methodologies, they will apply these insights to the analysis of actual decision-making situations by means of case studies and/or independent research projects.
- MKT 09502: Marketing Research 3 s.h.
Contemporary marketing decisions are based on marketing research information. This course will help students develop a managerial perspective on the use of marketing research information in making decisions, as well as specific research skills and practical experiences that will enhance their career advancement. The skills covered in this course are applicable to marketing problems encountered in both consumer and business-to-business markets. Students will experience a "project-based learning" to apply marketing research tools and methods to identify and solve specific marketing problems.

Course Descriptions

MKT 09503: Marketing Communication And Promotion 3 s.h.

MKT 09510: Foundations of Marketing 3 s.h.

Prerequisite(s): Admission into the MBA or Business COGS program

For graduate students in the MBA or Business COGS programs, this course provides a foundational overview of the theory and practice of marketing within a corporate and societal context in a dynamic environment. The major functions of marketing are covered from the perspective of management strategy seeking competitive advantage by better serving customers' needs more effectively and profitably than competitors.

MKT 09575: Introduction To Logistics And Supply Chain Management 3 s.h.

Prerequisite: Admission to graduate programs

The course is a basic introduction to the field of logistics and supply chain management, including both defense logistics and commercial supply chain management. The objective of the course is to provide students a solid awareness and understanding of the processes and functions that comprise a supply chain. The course serves as the introductory course of a three course specialization in Supply Chains and Logistical Systems in the MBA program. Moreover, students are required to complete a term project to demonstrate their understanding of logistics and supply chain issues. Case analysis and hands-on experience in this class will offer students the opportunity to broaden their horizon on the critical roles that the supply chain plays in this globalized and interdependent world.

MKT 09599: Special Topics In Marketing 3 s.h.

Prerequisites: Admission to the MBA Program

Students will study advanced-level topics in Marketing. The exact topics to be covered will change over time. Contact the MBA office or the Marketing Department for details.

MKT 09600: International Marketing 3 s.h.

Students will examine all issues facing marketing managers in the light of the unique challenges posed by the internationalization of the economy. The cultural, economic, political, and legal environment will be examined. Market research in world markets, the planning and development of consumer and industrial products, promotion, pricing and distribution will also be analyzed. This course may not be offered annually.

MKT 09605: Competitive Advantage Through Supply Chain Management 3 s.h.

Prerequisite: MGT 09575

The course has been developed to be the capstone course for the Supply Chain and Business Systems specialization in the Master of Business Administration program. As such, the course will provide the culminating experience for graduate students in their final courses in the graduate program and will serve as a point of assessment. Utilizing the relationship between the RCOB and SAP, students will have the opportunity to utilize the SAP SD (Sales and Distribution) Module of SAP software in applications that are common in logistical systems. Students will have to complete their term projects. In addition, students will be required to participate in SAP case competition, which encourages students to comprehend, integrate and apply supply chain management concepts in the context of SAP.

SCL 01380: Global Supply Chain 3 s.h.

Prerequisite: MKT 09375

The course is designed to assist students in developing the analytical skills necessary to manage the processes and functions existent in modern global supply chains. Using the case method and recommended textbook, students will analyze realistic situations and problems confronting supply chain managers in a global setting. They will also identify solutions and develop implementation plans for their recommended solutions. Within this process, students will develop an acceptance, understanding, and appreciation of the economic, political, and cultural differences that make up a global market. Cases for analysis and discussion will include topics such as supply chain strategy, operations management, inventory management, lean systems and six sigma quality issues, and sustainability supply chain management.

MATH 01122: Precalculus Mathematics 4 s.h.

Prerequisites: Old SAT score of 550+ or New SAT score of 570+ or ACT score of 24+ or Elem Algebra score of 77+ or AAF score of 263+ or "S" in MATH 01095

This course helps prepare students for Calculus I or Calculus T&A. The contents include: a brief review of intermediate algebra, the structure of the real number system, elementary analytic geometry, and algebraic, exponential, logarithmic and trigonometric functions (including their inverses and related functions). Graphs of functions and conic sections also are studied. A graphing calculator is required. Students are expected to have completed an equivalent of Basic Algebra II.

MATH 01130: Calculus I 4 s.h.
Prerequisites: C- or better in MATH 01122, or CLM score of 60+ or AAF score of 276+ or Old SAT score of 600+ or New SAT score of 620+ or ACT 27+

Calculus is a subject about functions. This course deals primarily with the two most fundamental concepts in Calculus: derivatives and definite integrals. It begins with a discussion of notions of the limit and continuity of a function. Then the definition of a derivative is introduced, and techniques of computing derivatives are studied. Through applications to analysis of functions, optimizations and problems in sciences, a student can appreciate the importance of the derivative. The concept of a definite integral as a limit of approximating sums emerges naturally in the context of problems of areas. Hidden links between the two concepts are formulated in the Fundamental Theorems of Calculus, which also provide a convenient shortcut for computing definite integrals. A graphing calculator is required for this course, and so is the use of computer software, such as Mathematica.

MATH 01131: Calculus II 4 s.h.
Prerequisites: C- or better in MATH 01130

This course begins with applications of integration (such as volume of a solid of revolution work, arc length, area of a surface of revolution, center of mass) and derivatives of inverse trigonometric functions. Integration by parts, partial fractions and other more advanced integration techniques are introduced, along with a discussion of numerical integration, improper integrals, indeterminate form, sequences and infinite series. A graphing calculator is required for this course, and so is the use of computer software, such as Mathematica.

MATH 01205: Technological Tools For Discovering Mathematics 2 s.h.
Prerequisites: C- or better in each of CS 01104 and MATH 01131 and MATH 03150

This course will use mathematics-specific technologies to help students discover mathematics and to develop a better understanding of new content. Throughout the course students will become aware of the broad range of mathematics-specific technologies available to mathematicians, become proficient in the use of these, and pursue the advantages, disadvantages, and limitations of such technologies. Students will solve problems and advance their understanding of topics in the areas of pre-calculus, calculus, geometry and statistics.

MATH 01210: Linear Algebra 3 s.h.
Prerequisite: C- or better in MATH 01131

This course includes: linear equations and matrices, vector spaces, linear dependence and independence, dimension and basis of a vector space, linear transformations, inner product and cross product, orthogonality, eigenvalues and eigenvectors. Use of graphing calculators is required and computers may be used at the option of the instructor. It is recommended that MATH 03150 or MATH 03160 should be taken prior to this course.

MATH 01230: Calculus III 4 s.h.
Prerequisites: C- or better in MATH 01131

This course includes: vectors, vector functions, velocity, acceleration, partial differentiation, directional derivatives, multiple integration, and vector calculus. The student is expected to use computer software, such as Mathematica, in addition to the graphing calculator.

MATH 01231: Ordinary Differential Equations 3 s.h.
Prerequisites: C- or better in both MATH 01210 and MATH 01230

Applications of ordinary differential equations and their methods of solution form the major part of this course. It also includes the solution of nth order equations, particularly of first and higher degree linear differential equations, and series and Laplace Transform solutions. Students might be asked to use computers and/or graphics calculators as an aid in solving equations.

MATH 01310: College Geometry 4 s.h.
Prerequisites: C- or better in each of PHIL 09130 and MATH 01210 and MATH 01230 and MATH 03150

This geometry course will use both synthetic and analytic approaches to study advanced concepts in Euclidean geometry, to introduce non-Euclidean geometry, to explore the basics of Transformational geometry and Higher Dimensional geometry, and to trace the historical development of geometry. Computer use will be emphasized throughout the course.

MATH 01330: Introduction To Real Analysis I 3 s.h.
Prerequisites: C- or better in both MATH 01230 and MATH 03150

This course prepares students for more advanced courses in analysis as well as introducing rigorous mathematical thought processes. Topics included are sets, functions, the real number system, sequences, limits, continuity and derivatives.

- MATH 01331: Introduction To Real Analysis II 3 s.h.
Prerequisites: C- or better in MATH 01330
 This course is a continuation of Introduction to Real Analysis I. The purpose is to extend student's understanding of basic analysis and the calculus. Topics included are: the mean-value theorem, existence of the Riemann integral, Riemann-Stieltjes integration, infinite series, convergence tests and Fourier series.
- MATH 01332: Numerical Analysis 3 s.h.
Prerequisites: C- or better in each of CS 01104 and MATH 01131 and MATH 01210
 This course includes: elements of error analysis, real roots of an equation, polynomial approximation by finite difference and least square methods, interpolation, quadrature, numerical solution of ordinary differential equations, and numerical solutions of systems of linear equations. The student should expect to program a computer in addition to using a graphing calculator.
- MATH 01340: Modern Algebra I 3 s.h.
Prerequisites: C- or better in each of MATH 03150 and MATH 01210 and PHIL 09130
 This course includes: the natural numbers, integers, rationals, and reals as mathematical systems, and the introductory theory of groups, rings, integral domains, and fields. Also included are homomorphisms and isomorphisms, subgroups, kernels, rings and ideals and polynomial rings. At the option of the instructor, computer use can be required.
- MATH 01341: Modern Algebra II 3 s.h.
Prerequisites: C- or better in MATH 01340
 This course extends the study begun in Modern Algebra I to a more detailed investigation of abstract algebraic structures. Included are Sylow theorems, rings and ideals, polynomial rings, ring and field extension and Galois theory.
- MATH 01352: Theory Of Numbers 3 s.h.
Prerequisite: C- or better in both MATH 01210 and MATH 03150, or C- or better in both MATH 01210 and MATH 03160
 This course includes divisibility properties of integers, theory of congruence, Diophantine Analysis, congruences of higher degree, quadratic residues and famous problems of number theory.
- MATH 01354: Introduction To Topology 3 s.h.
Prerequisites: MATH 01330
 This course covers the properties of general topological spaces, separation, compactness, connectedness and the Heine-Borel and Bolzano-Weierstrass theorems.
- MATH 01386: Introduction To Partial Differential Equations 3 s.h.
Prerequisites: C- or better in MATH 01231 or MATH 01236
 This course is a study of partial differential equations and their applications. Topics include the derivation of the wave equation, Laplace's equation and the heat equation, Fourier series and integrals, boundary value problems, Bessel functions and Legendre Polynomials.
- MATH 01410: History Of Mathematics 3 s.h.
Prerequisites: C- or better in two 300-level (or higher) Math major courses
 This course includes a survey of the development of mathematical ideas from early times up to present day college mathematics. Emphasis is on historical mathematical problems and their solution. Readings and reports on selected topics are required.
- MATH 01421: Mathematics Field Experience 3 s.h.
Prerequisites: MATH 01131 and STAT 02360 and permission of instructor
 Students accept assigned projects in a professional environment. These projects normally involve applied mathematics or statistics. Students are expected to work at least 150 hours during the semester for which they receive credit. Written reports are required.
- MATH 01430: Introduction To Complex Analysis 3 s.h.
Prerequisites: C- or better in MATH 01330
 This course includes properties of complex numbers and their conjugates, functions of a complex variable, limits, continuity and derivatives for complex functions. Also included are: Integration and the Cauchy integral theorems, uniform convergence, Taylor's and Laurent's series and conformal mapping.

Course Descriptions

- MATH 01498: Math Seminar (WI)** 3 s.h.
Prerequisite(s): C- or better in each of MATH 01231, MATH 01330, MATH 01340, and either MATH 01310 or STAT 02360
This course is designed to integrate students' knowledge of mathematics and to further develop their problem solving abilities. The course content includes problem-solving techniques, a review of the literature of mathematics, solving problems drawn from a variety of current resources, and study of techniques of proof and issues in the philosophy of mathematics and its foundation. Additionally, each student is required to write and to present orally, a research report on a mathematical topic.
- MATH 01500: Foundations Of Mathematics** 3 s.h.
Strategies and tools for problem solving, including computer use, will be applied to specific problems from number theory, geometry, analytic geometry, algebra, discrete mathematics, logic, and calculus.
- MATH 01502: Linear Algebra And Matrix Theory** 3 s.h.
This course includes linear systems, linear dependence and independence, linear transformation theory, multilinear forms, matrices, determinants, inner product spaces.
- MATH 01503: Number Theory** 3 s.h.
This course includes divisibility properties of integers, mathematical induction, modular congruence, linear congruences and diophantine analysis, congruences of higher degree, quadratic residues, famous problems of number theory.
- MATH 01504: Introduction To Mathematical Logic** 3 s.h.
This course includes intuitive set theory, relations and functions, sentential calculus, predicate calculus, mathematical systems, axiomatic theories.
- MATH 01505: Probability And Mathematical Statistics** 3 s.h.
This course includes probability for discrete sample spaces, probability distributions, Chebyshev's theorem, moment generating functions, continuous random variables, sampling distributions, point and interval estimation, theory of hypothesis testing, regression and correlation, introductory analysis of variance. Other than on the recommendation of the adviser, this course should not be chosen if a corresponding similar course has been part of the student's undergraduate study.
- MATH 01507: Differential Geometry** 3 s.h.
This course explores the application of calculus towards the study of higher-dimensional surfaces and their geometry. Topics include geodesics, tangent space, directional derivative, Riemannian metrics, isometrics, Gaussian curvature, first and second fundamental forms, Gauss-Bonnet Theorem, minimal surfaces, differential manifolds, connections, and Riemannian curvature tensors. Special topics (at the discretion of the instructor) may include Lie groups, symmetric spaces, general relativity, cohomology, and complex geometry. Students will be required to use a computer algebra system to gain geometric intuition.
- MATH 01510: Real Analysis I** 3 s.h.
The theoretical treatment of the foundations of calculus covering the real and complex number systems, elementary set theory, number sequences and series, topological treatment of the real line, continuity and differentiation.
- MATH 01511: Real Analysis II** 3 s.h.
The continuation of Real Analysis I covering Riemann-Stieltjes integration, sequences and series of function, functions of several variables, elements of measure theory and Lebesgue integration.
- MATH 01512: Complex Analysis I** 3 s.h.
The elementary theory of the functions of a complex variable covering operations with complex numbers, graphing on the Argand-Gauss-Wessel plane, analytic functions, complex integration. Cauchy's theorem and its applications, poles and residues, power series and conformal mapping are studied.
- MATH 01513: Complex Analysis II** 3 s.h.
The continuation of Complex Analysis I covering Riemann-Stieltjes integration, meromorphic functions, conformal mappings, analytic continuation, fractional linear transformations and periodic functions.
- MATH 01515: Engineering Applications Of Analysis** 3 s.h.
This course will cover various techniques for solving linear and nonlinear partial differential equations (PDEs) arising from physical and engineering applications; this includes both analytical and numerical methods. More specifically, students will learn the method of separation of variables for solving multi-dimensional problems, Fourier/Laplace transforms for solving infinite-domain problems, numerical methods (finite-difference, finite-element, Monte-Carlo), Green's functions, method of characteristics, and inverse scattering. Basic applications include a vibrating membrane (wave equation), heat flow along a metal plate (heat equation), steady-state fluid flow (Laplace's equation), traffic flow (shock waves), and solitary waves (solitons). Students will be required to use a computer algebra system, e.g. Mathematica, to solve problems.

Course Descriptions

MATH 01520: Topics In Applied Mathematics 3 s.h.

This course provides an overview of the mathematical modeling process and includes applications to optimization, dynamical systems, and Stochastic processes. Models of specific real world systems will be developed and studied using analytical and numerical methods.

MATH 01521: Nonlinear Differential Equations 3 s.h.

This course examines analytic and computer methods for the solution of ordinary differential equations which are of interest in applications. Topics are selected from differential equations in the phase plane, geometrical and computational aspects of the phase plane, averaging methods, perturbation methods, stability, Liapunov methods, existence of periodic solutions, bifurcations and chaos. Applications are also included that are of use in science and engineering.

MATH 01522: History Of Mathematics 3 s.h.

Topics will include: Babylonian, Egyptian and Greek mathematics. Attention will be given to the development of trigonometry, algebra, analytic geometry and the calculus.

MATH 01523: Selected Topics In Mathematics 1 to 6 s.h.

This course provides students with the opportunity to explore current issues in mathematics. The course will have a changing focus that will permit faculty to offer specialized seminars focused on new developments in the field, issues of significance, areas of faculty research, or in response to students' requests. Students may take this course for credit more than once (limit: 9 s.h.), as long as the focus of the course is different each time the student enrolls.

MATH 01524: Abstract Algebra I 3 s.h.

This introduction of abstract algebra will include the construction of number systems, theory of groups, rings, integral domains and fields. Other than on recommendation of the adviser, this course should not be chosen if a corresponding similar course has been part of the student's undergraduate study.

MATH 01525: Modern Geometry 3 s.h.

This course provides an overview of the field of geometry by studying selected geometries in depth, both Euclidian and non-Euclidian. Indicative exploration and the axiomatic method, as well as synthetic and algebraic approaches to problems, are examined. Unless recommended by the adviser, this course should not be chosen if a similar course has been part of the student's undergraduate program.

MATH 01526: Point Set Topology 3 s.h.

An introduction to one of the major branches of modern mathematics covering axiomatic development of topological spaces and metric spaces, and the concepts of convergence, continuity, separation, compactness and connectedness.

MATH 01527: Abstract Algebra II 3 s.h.

The continuation of Abstract Algebra I covering advanced material from group theory, ring theory and field theory.

MATH 01528: Mathematical Modeling & Algebraic Reasoning 3 s.h.

Students in this course will learn about polynomial, rational, and exponential functions by building and analyzing mathematical models for a variety of situations. Using algebraic representations, problem solving, using technology, connecting abstract algebra with middle grades mathematics, and fluency with algebraic procedures will be stressed.

MATH 01529: Numerical Analysis 3 s.h.

This course examines the theoretical foundations of numerical methods and studies in detail existing numerical methods for solving many standard mathematical problems in analysis and algebra. Error analysis will be developed for all methods. Some recent advances in the theory of chaos and nonlinear dynamics will also be presented.

MATH 01533: Graduate Seminar In Mathematics 3 s.h.

Students will be introduced to mathematics not found in textbooks. They will learn how to read journal articles and analyze them. An emphasis will be placed on communication skills, both oral and written. Students will be required to give both oral and written analysis of their readings.

MATH 01550: Independent Study 1 to 6 s.h.

This course is designed for an individual who wishes to study a mathematical subject or topic not included in the listed offerings of the program. The student undertakes independent study under the supervision of a mathematics staff member. Registration by permission of the department chairman and the supervising department member.

Course Descriptions

MATH 01552: HISTORY OF MATH 3 s.h.

MATH 01561: School Mathematics From An Advanced Standpoint 3 s.h.
 This course is to develop a deeper understanding of mathematics and a new appreciation of its beauty, its logical structure and its applicability. The course will take into account not only the many interconnections among school mathematics topics but also their relationship to higher mathematics.

MATH 01603: Analytic Number Theory 3 s.h.
Prerequisites: MATH 01503, MATH 01512

This course covers introductory topics in analytic number theory. Topics include theory of congruence, multiplicative functions, distribution of prime and the Prime Number Theorem, subgroups of the modular group and their fundamental domains, modular forms and their Fourier series expansions.

MATH 03125: Calculus: Techniques And Applications 3 s.h.
Prerequisites: CLM Re-test with a score of 60 or higher or MATH 01123 or MATH 01122 or MATH 01124 with a minimum grade of C-

This course introduces students to the fundamental concepts and techniques of differential and integral calculus. Emphasis is placed on practical and informative applications of limits, derivatives and integrals in today's world, with those in business highlighted. A graphics calculator is required. Students are expected to have completed an equivalent of the course of College Algebra.

MATH 03150: Discrete Mathematics 3 s.h.

This course provides an overview of the branch of mathematics commonly known as discrete mathematics. Topics included are sets, relations, functions, induction and other methods of proof, recursion, combinatorics, graph theory, and algorithms. Emphasis is placed on the solution of problems and proofs. The use of graphing calculator is required.

MATH 03160: Discrete Structures 3 s.h.

This course covers mathematical topics essential for work in computer science. This material includes number bases, mathematical induction, sets, relations, functions, congruence, recursion, combinatorics, graphs, trees, logic, Boolean algebras, and proof techniques. While this is a course in mathematics, many of the examples and applications will be taken from computer science. The instructor may require use of a graphing calculator and/or computer. This course covers much of the same material as Discrete Mathematics (MATH03.150), but with a computer science focus. In no case will a student be allowed to receive credit for both courses. Both courses will be treated as equivalent for the purposes of satisfying prerequisites and course requirements.

MATH 03400: Applications Of Mathematics 3 s.h.
Prerequisites: C- or better in each of MATH 01210, MATH 01230, and MATH 01231

This course may include examples of mathematical models applied to the various fields of the biological, physical and social sciences. The process of building a mathematical model to describe a real world system will be demonstrated. Emphasis will be placed on the value of mathematical models for solving problems and obtaining new results. Computers and graphing calculators will be used.

MATH 03411: Deterministic Models In Operations Research 3 s.h.
Prerequisites: C- or better in (MATH 01230 or MATH 01141) and C- or better in (MATH 01210 or MATH 01235)

This course is an introduction to mathematical modeling, analysis, and solution procedures applicable to decision-making problems in deterministic environment. Methodologies covered include the simplex and interior point methods of solving linear programming models, inventory theory, assignment and transportation problems, dynamic programming and sensitivity analysis. Solutions will be obtained using theoretical methods and software packages.

MATH 03412: Stochastic Models In Operations Research 3 s.h.
Prerequisites: C- or better in each of STAT 02360 and MATH 03411, or C- or better in each of STAT 02360 and (MATH 01230 or MATH 01141) and (MATH 01210 or MATH 01235)

This course is an introduction to mathematical modeling, analysis, and solution procedures applicable to decision-making problems in an uncertain (stochastic) environment. Methodologies covered include dynamic programming, Markov chains, queuing theory, decision trees, system reliability and inventory theory. Solutions will be obtained using theoretical methods and software packages.

MATH 03501: Mathematical Modeling for Biological Systems 3 s.h.
Prerequisite(s): MATH 01210 or MATH 01231 or permission of instructor

This course introduces students to modeling biological systems using ordinary differential equations. It focuses on the modeling process including the construction, analysis, and interpretation of mathematical models. It introduces new techniques for studying the solutions to these mathematical models and develops procedures for making the models more realistic.

Course Descriptions

MATH 03511: Operations Research I 3 s.h.

This course is an introduction to mathematical modeling, analysis, and solution procedures applicable to decision-making problems in deterministic environment. Methodologies covered include the simplex and interior point methods of solving linear programming models, project planning, network optimization, assignment and transportation problems, dynamic programming and game theory. Solutions will be obtained using theoretical methods and software packages.

MATH 03512: Operations Research II 3 s.h.

This course is an introduction to mathematical modeling, analysis, and solution procedures applicable to decision-making problems in an uncertain (stochastic) environment. Methodologies covered include dynamic programming, simulation, Markov chains, queuing theory, decision analysis, dynamic programming, system reliability and inventory theory. Solutions will be obtained using theoretical methods and software packages.

MATH 03525: Partial Differential Equations in Biomathematics 3 s.h.

Prerequisite(s): MATH 01231 or permission of instructor.

This course covers topics in partial differential equations as it applies to biomathematics. These include second order linear and nonlinear partial differential equations, diffusion and conservation laws, waves and pattern formation, Chemotaxis and other forms of cell and organism movement. Computer software, such as Mathematica, will be used.

MATH 03550: Topics In Discrete Mathematics 3 s.h.

This course provides an advanced approach to topics in discrete mathematics for persons with substantial backgrounds in traditional mathematics. Selected topics are explored in depth and related to concepts from other areas of mathematics. Topics normally included are logic, combinatorics, number systems, data structures and representations, Boolean algebra, induction, graphs and trees.

MATH 03600: Topics In Elementary Mathematics 3 s.h.

This course is designed to improve the understanding and attitudes of practicing elementary teachers (K-8). Specific topics to be addressed include quantitative reasoning, spatial reasoning, inductive and deductive reasoning, mathematical systems, and communication in mathematics. Students are expected to engage in some independent work.

MATH 03610: Applied Statistical Epidemiology 3 s.h.

Prerequisite: MATH 01505, MATH 01502 AND CS 01104 or equivalent or Permission of Instructor

This course introduces the basic concepts of epidemiology and focuses on analyzing epidemiological data using a statistical programming language such as R, one of the most efficient programming languages for statistical computing and graphics. This course will lay the ground work to successfully design, conduct, analyze and interpret findings from epidemiological studies using the appropriate statistical methods.

MATH 03611: Special Topics in Biomathematics 3 s.h.

This course covers in depth a wide-range of advanced topics in biomathematics inspired by applications of mathematics in biology and health sciences problems. The course will offer students the opportunity to learn modern emerging cutting edge research approaches not covered by other courses.

MATH 03612: Masters Thesis 3 s.h.

This course is a graduate Master's thesis course and will serve as capstone experience. It provides students with hands-on research experience in a topic of interest in mathematics, applied mathematics or statistics under the supervision of a faculty from the Department of Mathematics. Upon completion of the research project, the results will be presented to a Master's thesis committee for approval.

STAT 02100: Elementary Statistics 3 s.h.

This course gives a basic introduction to the fundamental concepts and methods of statistics. Its topics include: basic measures of central tendency and variability, graphical displays, elementary design of experiments, descriptive simple linear regression, elementary probability, the normal and t-distributions, confidence intervals and hypothesis testing. Use of a statistical calculator, graphing calculator or software package is required. Note: many majors require a different introductory statistics course; students should check their major requirements before signing up for this course.

STAT 02260: Statistics I 3 s.h.

Students learn to use various graphical displays and measures of location and variability to describe data. The course considers elementary probability and sampling distributions, and uses the normal and t-distributions in estimation and hypotheses testing. It includes descriptive techniques for simple linear regression and correlation. Use of a graphing calculator is required; computer software may be used. Students are expected to have completed an equivalent of College Algebra.

STAT 02280: Biometry 4 s.h.
Prerequisites: (MATH 01130 and BIOL 01104 and BIOL 01106) or (MATH 01130 and BIOL 01202) or (MATH 01130 or (MATH 01130 and BIOL 01100 and BIOL 01101))

This laboratory course considers elementary data analysis, probability and sampling distributions. It uses the normal and t-distributions to introduce estimation and hypotheses testing. It includes descriptive techniques and inference for simple linear regression and correlation. Analyses of variance, nonparametric tests and chisquare tests are covered in this course. Emphasis is placed on experimentation and the application of statistical methods to the biological sciences. Computer software is used regularly in data manipulation, statistical analyses, and formal presentation of results.

STAT 02290: Probability And Statistical Inference For Computing Systems 3 s.h.
Prerequisites: C- or better in each of (MATH 03150 or MATH 03160) and MATH 01131 and (CS 04113 or CS 01104 or CS 04103)

This laboratory course considers descriptive techniques for presenting and summarizing data, techniques in probability, discrete and continuous random variables, estimation and hypothesis testing. Emphasis is placed on concepts and simulation, regularly using computer software for data manipulation and presentation, function manipulation and presentation, simulation, and statistical analyses. Examples will be drawn from the field of Computer Science.

STAT 02360: Probability And Random Variables 3 s.h.
Prerequisites: C- or better in both of MATH 03150 and (MATH 01230 or MATH 01141)

This course is an introduction to the theory and application of probability and random variables, with a short introduction to mathematical statistics, as the post-calculus level. Topics covered include sample spaces, random variables, discrete and continuous probability distributions, mathematical expectation, and multivariate distributions. At the end of the course the concept of estimation, from mathematical statistics, will be introduced. A few of the concepts of descriptive statistics will be introduced as needed. Use of a graphing calculator is required.

STAT 02361: Mathematical Statistics 3 s.h.
Prerequisites: C- or better in STAT 02360

A continuation of STAT 02360, the course emphasizes the theory of inferential statistics and its applications. The Central Limit Theorem is more fully developed as are the concepts of estimation and hypothesis testing. The properties of estimators are covered and tests using normal, t, chi-square, and F distributions are studied. Nonparametric methods, regression, and correlation are also covered. Use of a graphing calculator is required.

STAT 02371: Design Of Experiments: Analysis Of Variance 3 s.h.
Prerequisites: MATH 01210 and (STAT 02260 or STAT 02280 or STAT 02284 or STAT 02290 or STAT 02361)

Students will gain an understanding of the major theoretical and practical concepts in the design of experiments using the statistical technique called the analysis of variance (ANOVA). A brief discussion of the concept of power, and the minimum number of experimental trials to achieve that power, will be used as this motivation for careful design. Students will be introduced to several aspects of the design of experiments beyond one- and two-way ANOVA, such as blocking, factorial designs, fractional designs, and random factors.

STAT 02510: Introduction to Statistical Data Analysis 3 s.h.
Prerequisites: Probability & Random Variables (STAT 02360) or equivalent, and Linear Algebra (MATH 01.210) or equivalent.

This course examines the principles behind statistical data analysis, and introduces students to major areas of statistical data analysis needed by a practicing biomathematician. Using simulation, students will use bootstrapping to develop the mechanics of confidence intervals, use randomization to develop the mechanics of hypothesis tests, and learn the types of conclusions that can justifiably be made from a study. They will also be introduced to models of analyzing data that is categorical, numerical, and a combination of both, through the study of contingency tables, linear regression, and the analysis of variance. They will use at least one statistical software package.

STAT 02513: Applied Stochastic Processes 3 s.h.
Prerequisite(s): STAT 02360 and MATH 01210 or ECE 09433 or permission of instructor.

This course introduces the concept of a sequence of random events known as a stochastic process, as well as the mathematical methods used to model variety of types of stochastic processes and analyze their short and long-term behavior. A broad spectrum of examples from biology, health, and medicine will be included throughout the course. Topics include the basic classifications of stochastic processes, Markov chains, Poisson processes, continuous-time Markov chains, renewal processes, and branching processes. Statistical and computer algebra system software will be used when relevant.

STAT 02514: Decision Analysis 3 s.h.
Prerequisite(s): STAT 02360 or equivalent.

This course examines the basic principles for performing a decision analysis, including those needed for decision making in areas such as medicine, the environment, and public health. Topics include the components of a decision and a model of a decision, the use of probability as a model for reasoning with uncertainty, subjective probability, utility theory, Bayesian inferential methods, sensitivity analysis, Monte Carlo simulation, and multi-objective decision problems. Professional decision analysis software will be used throughout the course.

STAT 02515: Applied Multivariate Data Analysis 3 s.h.
Prerequisite(s): Graduate standing in M.S. in Data Analytics or (MATH 01131 and MATH 01210) and (STAT 02360 and STAT 02260 or STAT 02290) or permission of the instructor.

This course examines the principles behind statistical data analysis for multivariate data, and introduces the students to major areas of multivariate I data analysis. Topics include multiple and logistic regression, principal component analysis, factor analysis, cluster analysis, MANOVA, multidimensional scaling, discriminant analysis and canonical correlation. The students will use at least one statistical software package.

STAT 02525: Design and Analysis of Experiments 3 s.h.
Prerequisite(s): Graduate standing and an introductory statistics course at at-least the 200 level, or permission of the instructor.

This is a graduate level course that investigates fundamental topics in experimentation as well as design methods. The course also introduces the analysis associated with various experiments. Examples and case studies based on real-world events will be used to illustrate course concepts. Students will be required to complete an end-to-end project that will include an experiment's design, data collection and analysis.

STAT 02530: Applied Survival Analysis 3 s.h.
Prerequisite: STAT 02510

This course provides an introduction to the methods used for the analysis of time-to-event data, such as time to first recurrence of a tumor after initial treatment (i.e. length of remission) and time to failure in mechanical systems. The topics covered include types of censoring and truncation, common nonparametric (i.e., Kaplan-Meier estimator), parametric, and semi-parametric (i.e. Cox model) approaches, model checking methods, reliability topics (homogeneous Poisson process), sample size, and power estimation. While the theoretical basis for the methodology will be discussed, the primary focus of the course will be on model selection, data analysis, and interpretation of results. Extensive use of statistical software will be incorporated into the course.

STAT 02585: Introduction to Bayesian Statistical Methods 3 s.h.
Prerequisite: STAT 02510

This course provides an introduction to statistics from a Bayesian perspective in which one's inferences about parameters or hypotheses are updated as evidence accumulates. The course will focus on Bayesian methods for inference and how these methods compare with commonly-taught Frequentist approach. Benefits of the Bayesian approach will also be discussed. Methods learned will be applied in the analyses of various practical problems using a statistical programming language such as R or SAS.

ENGR 01512: Principles Of Nanotechnology 3 s.h.
Prerequisites: (PHYS 02200 or PHYS 00220) and (PHYS 02201 or PHYS 00222) and CHEM 06100

This course explores the science and engineering at the nanometer scales. Topics include fundamentals of nanotechnology; types and properties of nanomaterials; methods of fabrication; how these materials are characterized and the potential applications.

ENGR 10513: Renewable Energy: Photovoltaics and Energy Harvesting 3 s.h.

This course covers concepts and technologies related to renewable energy. The emphasis will be placed upon photovoltaics and energy harvesting. Topics include energy economy, renewable energy concepts and resources, photovoltaics, semiconductors, p-n junctions, solar cells using crystal materials, thin films, and organic materials, and energy harvesting using piezoelectric and thermoelectric devices. Course topics will be reinforced by in-depth discussion on research progress in renewable energy. Students will complete a term paper with the focus on an advanced topic in renewable energy.

ME 10501: Computer Integrated Manufacturing and Automation 3 s.h.

The course covers the basic aspects of computer integrated manufacturing and automation systems. Hard and flexible automation concepts are introduced. Various automation strategies are presented. Coding and classification ideas of group technology are related to computer aided process planning. Topics of numerical control, industrial robotics, and artificial intelligence are discussed.

ME 10505: Special Topics in Mechanical Engineering 3 to 6 s.h.
 The topics will be announced in the course schedule.

ME 10506: Computational Materials Science 3 s.h.

ME 10511: Combustion 3 s.h.

This course presents the concepts of chemically reacting systems (flames) along with many practical applications. Topics include chemical equilibrium, chemical kinetics, premixed laminar flames, detonations, diffusion flames and environmental issues. The course uses chemically reacting flow software for combustion modeling.

ME 10512: Rocket Propulsion 3 s.h.

Principles of rocket propulsion theory are presented along with practical applications of rocket propulsion design. Theoretical topics include performance analysis of ideal rocket engines, departure from ideal performance and detailed thermochemical propellant calculations. Practical design issues are addressed for both liquid propellant engines and solid rocket motors. The course also includes an introduction to electric propulsion.

ME 10513: Principles in Advanced Heat and Mass Transfer 3 s.h.

Prerequisite: CHE 06311 or ME 10322

The topics covered in this course extend and complement the Thermal-Fluid Sciences II course. While Thermal-Fluid Sciences II provides an overview and introduction to the engineering fundamentals of heat transfer, Principles of Advanced Heat and Mass Transfer will provide a deeper knowledge of heat transfer principles, and will allow more rigorous and open-ended problems to be examined. The course will include two additional topics, radiation and mass transfer. Students successfully completing this course will be able to solve a wider range of heat and mass transfer problems encountered in industry.

ME 10514: Energy Conversion Systems 3 s.h.

This course will introduce energy conversion technologies for the generation of electrical power. Topics will include a review of power cycles, steam and gas cycles, generation of thermal power, combustion and fuels, steam power plant design considerations, gas turbine power plant operation and design considerations, combined cells, and environmental considerations in power generation. A course project will be required on an advanced topic of mutual interest between the student and instructor.

ME 10521: Gas Dynamics 3 s.h.

This course emphasizes application of the conservation equations of mass, momentum and energy to solve problems in one-dimensional and two-dimensional compressible flow including one-dimensional isentropic flow, flow with area change, adiabatic flow with friction, normal shock waves and flow with heat addition. The method of characteristics is introduced to solve two-dimensional compressible flow problems. Numerical techniques are presented and a numerical analysis project is completed on one-dimensional, unsteady flow.

ME 10522: Computational Fluid Dynamics 3 s.h.

This course introduces computational fluid dynamics (CFD) using a primarily software-based approach. Following an overview of the key steps involved with CFD, the class reviews the fundamental mathematics that govern fluid dynamics. An overview of governing equation discretization techniques is presented with assignments that involve building custom algorithms to solve simplified CFD problems. CFD essentials such as consistency, stability and convergence are covered in-depth. Several modeling labs are used to build software skill and explore internal and external flows that are largely incompressible and viscous. The final weeks of this class are dedicated to a final project on a student-selected topic. The student will complete an independent laboratory exercise of project.

ME 10540: Advanced Manufacturing 3 s.h.

This course will provide students with knowledge of modern manufacturing processes, how design is optimized for manufacture, and information on future directions of manufacturing, such as additive (3D printing) manufacturing techniques and the use of digital data across the product life cycle. The course will also discuss the taxonomy of manufacturing processes and provide an examination of current state of the art manufacturing with an emphasis on trends and directions in manufacturing, the relationship of digital data to design and production, and the impact of supply chain on production decisions.

ME 10541: Advanced Mechanism Design 3 s.h.

This course presents an in-depth coverage of the design of mechanisms using matrix methods as the platform to model, synthesize, analyze and simulate mechanisms. It covers advanced design techniques that include type synthesis, numerical optimization techniques as applied to mechanism design. It also covers branch defects and circuit defects that occur during mechanism synthesis and modeling and simulation of mechanical systems. Students will perform analysis and simulation using appropriate mechanism design software.

ME 10542: Advanced Mechatronics 3 s.h.

This course introduces the students to the design and development of mechatronic systems. It introduces the students to the multidisciplinary nature of mechatronic products, and teaches them to design and develop such products. Students will learn about mechatronic design philosophy, mechatronic system modeling, sensors, actuators, microprocessors and their interfaces. The course project will involve the design of a real-world mechatronic system. A final project will be required.

Course Descriptions

ME 10543: Advanced Design for X 3 s.h.

This course introduces students to the design of systems from the Design for X perspective. The Design for X course teaches how to deal with conflicting and ever-increasing constraints upon the design process. It teaches students to adopt a systematic design approach that addresses issues related to manufacture, assembly, environment, reliability and other factors.

ME 10544: Automotive Engineering 3 s.h.

ME 10550: Advanced Solid Mechanics 3 s.h.

ME 10551: Mechanics of Continuous Media 3 s.h.

Students will engage the three-tiered framework used to interrogate problems involving bodies of continuous media. This begins with derivation of the governing equations from the conservation of mass, momentum, and energy followed by the application of constitutive models, such as Hooke's law, that govern the behavior of particular materials, and concludes with the solution of boundary value problems. In addition to the study of classical problems and their solutions, students will be required to program numerical algorithms for the solution of problems that can not be solved in closed form. Kinetic and kinematic constraints, such as material frame indifference, compatibility, and objectivity, will be addressed. The material covered will include both cylindrical and Cartesian coordinate frames.

ME 10552: Structural Acoustics 3 s.h.

Control of noise is an important part of engineering practice in many industries today. Vital to effective noise control is an understanding of wave behavior in structures. This course will teach engineers the fundamentals of the generation of noise in structures, with an emphasis on the phenomena of mechanical resonance and modal behavior. Topics covered include vibration of strings, bars, beams and plates. An introduction to simple acoustic sources will be given.

ME 10553: Analytical Dynamics 3 s.h.

This course is an advanced introduction to three-dimensional motion of particles and rigid bodies. Students study modern analytical rigid body dynamics equation formulation and computational solution techniques applied to mechanical systems and multibody systems. Students will formulate Newton/Euler and Lagrangian equations for applications to engineering systems, Hamiltonians principle, study kinematics of motion generalized coordinates and speeds, analytical and computational determination of inertia properties, generalized forces, holonomic and nonholonomic constraints, computational simulation.

ME 10554: Elastic Stability of Structures 3 s.h.

Many important structures (e.g. buildings, bridges, aircraft frames) have buckling as a primary mode of failure. Because of this, it is important for structural engineers to have at least a cursory knowledge of elastic stability phenomena. This course will provide graduate-level Mechanical Engineering students with an overview of elastic stability in structures, and a brief introduction to dynamic stability, as applied to rotating shafts. Applications of mathematical theory to real-world structural design problems will be emphasized.

ME 10570: Principles in Biomechanics 3 s.h.

This course presents topics in the biomechanics of human motion. The course will encompass the use of engineering principles to describe, analyze and assess human movement. Topics will include kinematics, kinetics, anthropometry applied to the synthesis of human movement and muscle mechanics. A course project and laboratory project will enhance this course.

ME 10571: Principles in Biotransport 3 s.h.

Prerequisites: ENGR 01341 or ME 10321

This course introduces biotransport in terms of heat transfer, mass transfer, and fluid mechanics related to the human body. Some examples include cryosurgery of warts and drug delivery from skin patches. Beginning with biotransport problem formulation, the course explores software tools that enable mathematical modeling. Fundamental principles of model validation, mesh convergence, sensitivity analysis, and objective functions are presented. Several modeling labs are used to build software skill and explore various heat and mass transfer processes inside and around the human body. Medical device development concepts are presented, making a connection between modeling activities and product development. The final weeks of this class are dedicated to a final project on a student-selected topic. The student will complete an independent laboratory exercise or project.

Course Descriptions

ME 10572: Principles in Biomaterials 3 s.h.
Prerequisites: ENGR 01281 or ENGR 01283

The goal of this course is to introduce the numerous issues that factor into material selection for biomedical devices. Issues to be examined include mechanical properties, biocompatibility, production costs, and ease of manufacture. This course will familiarize students with relevant material issues and highlight the process for matching material performance with the desired design characteristics and functionality.

ME 10576: Principles in Orthopaedic Biomechanics 3 s.h.
Prerequisite: ENGR 01272 or ENGR 01273

This course presents both introductory and emerging areas of orthopaedic biomechanics. The course will encompass the use of engineering principles to describe, analyze and assess the musculoskeletal system. Topics will include bone and soft tissue mechanics, implant systems, fracture fixation, joint replacements and reviews of current research.

ME 10705: Special Topics in Mechanical Engineering for Doctoral Students 1 to 6 s.h.
Prerequisite: Doctoral Student Standing in Engineering

The students will study advanced topics in Mechanical Engineering. Special Topics courses may be traditional classroom-based courses or research-related courses sponsored by specific advisors.

MED 01627: Scholars Workshop IV 1 s.h.

MED 01628: Ambulatory Clerkship IV 1 s.h.

BINF 05555: Bioinformatics: Advanced Biological Applications 3 s.h.

This course in bioinformatics covers the application of modern computational and functional genomics methods to current questions in biological and biomedical sciences. Bioinformatics approaches and philosophy will be highlighted through exploration of research problems in cell and developmental biology, and ecology. Collaborative learning and problem solving using computational, statistical and genomics methods will be emphasized. Students will design and carry out collaborative research projects.

BINF 07500: Bioinformatics Seminar 3 s.h.
Prerequisites: CHEM 07595 and BIOL 05555 and CS 07595

This advanced literature survey course in bioinformatics covers current and emerging topics in the field of Bioinformatics through the analysis of current primary literature. The multidisciplinary nature of bioinformatics will be highlighted through examples of computational approaches to solving biological, biochemical, and applied biomedical research problems. Emphasis is placed on the interplay between computational methods and how they are applied to solve real problems in biology and biochemistry. Students will engage in semester-long research projects culminating in a presentation of a topic from the primary literature.

BINF 07501: MS Thesis Research 1 3 s.h.
Prerequisites: CHEM 07595 and BIOL 05555 and CS 07595

This is the first semester of research in Bioinformatics for students pursuing a MS degree with thesis. Thesis project outline and thesis committee must be selected and approved PRIOR to the start of this course.

BINF 07502: MS Thesis Research 2 3 s.h.
Prerequisite: BINF 07501

This is the second semester of research in Bioinformatics for students pursuing a MS degree with thesis. Thesis project outline and thesis committee must be selected and approved PRIOR to the start of this course. This course is an extension of the project undertaken as part of MS Thesis Research 1 (BINF 07501)

BINF 07503: MS Thesis Research 3 3 s.h.
Prerequisites: BINF 07502

This is the third semester of research in Bioinformatics for students pursuing a MS degree with thesis. Thesis project outline and thesis committee must be selected and approved PRIOR to the start of this course. This course is an extension of the project undertaken as part of MS Thesis Research 2 (BINF 07502)

BINF 07504: MS Thesis Research 4 3 s.h.
Prerequisite(s): BINF 07503 and permission of the Instructor

This is the fourth semester of research in Bioinformatics for students pursuing a MS degree with thesis. Thesis project outline and thesis committee must be selected and approved PRIOR to the start of this course. This course is an extension of the project undertaken in MS Thesis Research 3 (BINF 07503).

Course Descriptions

- BINF 07595: Bioinformatics: Advanced Biochemical Applications** 3 s.h.
Prerequisite: CHEM 07548
This introductory course in bioinformatics covers the application of modern computational methods to the fundamentals of molecular biology (protein and DNA structure, transcription and translation). The biochemical tools of molecular biology will be discussed. Methods of aligning DNA sequences will be studied in relation to mutations, phylogenetic tree analysis, forensic science, and genetic diseases. Algorithms for protein structure prediction, microarray technology and gene expression will be explored. Computer based lab exercises will support the topics presented. Students will be required to do a literature based research project.
- MCB 01101: Foundations in Biology for Biomedical Sciences I** 4 s.h.
This laboratory course is the first of the two semester sequence designed for students not majoring in Biology but interested in pursuing studies in biomedical areas through advanced Biology courses. This sequence serves as an introduction to fundamental biological concepts and the foundation for upper-level biology courses for such students. Both courses of the sequence focus on genetics, cell biology, and evolution and theory relation to human health. This course focuses more specifically on the molecular basis of variation and heredity and its evolutionary context.
- MCB 01102: Foundations in Biology for Biomedical Sciences II** 4 s.h.
Prerequisite(s): BIOL 01205 or MCB 01101
This laboratory course is the second of the two semester sequence designed for students not majoring in Biology but interested in pursuing studies in biomedical areas through advanced Biology courses. This sequence serves as an introduction to fundamental biological concepts and the foundation for upper-level biology courses for such students. Both courses of the sequence focus on genetics, cell biology, and evolution and their relation to human health. This course focuses on molecular and cellular mechanisms of life and their evolutionary context.
- MCB 01360: Biophysics I** 4 s.h.
Prerequisite(s): PHYS 00300 and (BIOL 01203 OR BIOL 01202) and (PHYS 00211 OR PHYS 00222)
This course is aimed at understanding the physics of biological systems. The goal of the course is to quantitatively define biological systems and their functions. Key emphasis will be placed on (1) understanding theories, laws, and axioms that govern systems and their behavior and (2) the use of physics to determine quantitative information about systems and their behaviors. For each topic, the basic laws of physics will be reviewed followed by their application to specific biomolecular or biological system examples. The laboratory component is aimed at giving students hands-on experience in measurement and observation for biological systems.
- MCB 01506: Graduate Translational Cell Biology** 3 s.h.
This graduate course focuses on advanced translational approaches of cellular processes towards analysis, diagnostics, and treatment of human diseases. Topics including biological causes of cellular and metabolic diseases, molecular diagnostics, gene therapy, and stem cell therapy will be addressed.
- MCB 01514: Infectious Agents** 3 s.h.
This course aims at preparing students for health professions and biomedical research by exploring host-pathogens interactions. Infectious agents among viruses, bacteria, parasites and/or fungi will be selected to examine life cycles, interaction with hosts and pathogenicity. Translational use of pathogens in disease prevention and therapies will also be explored. In this course, students will also develop research proposals on selected infectious agents.
- MCB 01521: Graduate Cell Culture Techniques** 4 s.h.
This graduate course features hands-on instruction in the techniques, methodologies, principles, and applications of mammalian cell culture. The students will learn principles of cell culture in monolayers and suspension as well as concepts of cell proliferation, viability, differentiation and tissue histology. Stem cell phenotypes and differentiation genetic marker profiles will be compared for adipogenesis, chondrogenesis, and osteogenesis.
- MCB 01534: Advanced Medical Biochemistry** 3 s.h.
This course is intended to introduce graduate students to fundamental biochemical principles relating to disease states. This will include structure and function of biomolecules, biochemical pathways in cells, and cellular processes relevant to diseases and medical disorders. Special emphasis will be placed on reviewing and evaluating peer-reviewed medical literature. Students in this course should have taken at least one previous course in biochemistry.
- MCB 01538: Graduate Immunology** 4 s.h.
This graduate course studies infection and resistance and the principles and types of immunity and hypersensitivity. Laboratory applications include: antigen-antibody formation, structure and reactivities.

Course Descriptions

- MCB 01550: Graduate Molecular Genetics 4 s.h.
 This graduate course considers the principal concepts in biochemical genetics including gene function and regulation, DNA replication, and mutation. Laboratories focus on fundamental biotechnology concepts and techniques.
- MCB 22450: Molecular Genetics 4 s.h.
Prerequisite(s): BIOL 01203 or MCB 01102 or BIOL 0211 or BIOL 01202 with C- or better and at least junior status
 This course considers the principal concepts in biochemical genetics including gene function and regulation, DNA replication, and mutation. Laboratories focus on fundamental biotechnology concepts and techniques.
- MCB 22598: Human Genetics 4 s.h.
 Patterns of transmission of single gene traits, human biochemical genetics, autosomal and sex-linked chromosomal anomalies, immunogenetics and blood groups, screening for genetic diseases and prenatal diagnosis. Lecture, laboratory sessions or the equivalent. This course may not be offered annually.
- MHP 00610: Basic Laboratory Techniques-Biology 3 s.h.
Prerequisite(s): MBS 00501 and MBS 00502 ("C" grade or better in each course)
 This course will teach students the most basic techniques used in a modern biomedical laboratory, to prepare them to integrate these techniques into more advanced processes they will use later. *This course is only open to students in the Masters in Histopathology program.*
- MHP 00611: Histology I: Basic Tissue Types 3 s.h.
Prerequisite: MBS 00501 and MBS 00502; or equivalent, with course director's permission.
 This course introduces students to the basic tissue types, as well as some of the common stains used to differentiate elements of tissue. In addition, students will learn to use a microscope and analyze photomicrographs critically. *This course is only open to student in the Masters in Histopathology program.*
- MHP 00612: Histology II: Techniques 4 s.h.
Prerequisite(s): MHP 00610 and 00611 ("C" grade or better in each course)
 This lab-intensive course builds upon the theory learned in Histology I: Basic Tissue Types. Students will be trained in histological techniques in a hands-on setting, in order to develop the critical skills required to become a histotechnologist. Students will learn to section various animal tissue utilizing a microtome and cryostat, and perform basic staining procedures. *This course is only open to students in the Masters in Histopathology program.*
- MHP 00613: Histology III: Organ Systems 3 s.h.
Prerequisites: MHP 00511 and MHP 00503; or equivalent, with course director' permission.
 In this course, students will apply their knowledge of tissue types to develop an understanding of organ structure and function. This will include information specific to commonly used animal models (e.g. rats, mice, rabbits). *This course is only open to students in the Masters in Histopathology program.*
- MHP 00614: Basic Animal Techniques 4 s.h.
Prerequisites: MHP 00511 and MHP 00512 and MHP 00514.
 This basic animal techniques course will teach students mouse colony management and preclinical research techniques. This course is lab intensive . Students will receive one-on-one instruction for each of the indicated skills listed in the syllabus. This format will allow student to develop basic skills in managing a mouse colony and processing of tissues, which is valuable for job replacement upon graduation. *This course is only open to students in the Masters in Histopathology program.*
- MHP 00615: Advanced Animal Techniques 4 s.h.
Prerequisites: MHP 00514 and MHP 00511 and MHP 00512 andMHP 00611
 This advanced animal techniques course will reinforce what students learned about basic mouse colony management and teach students advanced preclinical research techniques. This course is lab intensive. Students will receive one-on-one instruction for each of the indicated skills listed in the syllabus. This format will allow students to develop advanced animal research skills, which is valuable for job placement upon graduation. *This course is only open to students in the Masters in Histopathology program.
- MHP 00616: Topics in Pathology 2 s.h.
Prerequisite: MBS 00609Co=requisite: MHP 00513
 This course will provide students in the Masters in Histopathology program exposure to the pathology of major organ systems. This course is only open to students in the Masters in Histopathology program.

Course Descriptions

- MUS 04514: Choral Procedures 2 s.h.
Designed as a laboratory course for choral directors in the organization of rehearsal techniques, selection and placing of voices and development of programs. Special attention is given to individual vocal needs.
- MUS 04536: Chamber Music I 1 s.h.
The study and performance of selected repertoire for specific instrumental groups and combinations. Students will be assigned to a small ensemble and will be required to rehearse and to perform the chosen repertoire in a public setting.
- MUS 04537: Chamber Music II 1 s.h.
The study and performance of selected repertoire for specific instrumental groups and combinations. Students will be assigned to a small ensemble and will be required to rehearse and to perform the chosen repertoire in a public setting.
- MUS 04540: Jazz Arranging And Composition 3 s.h.
The course presents techniques in arranging and composition in the jazz idiom and is tied to the course CD Project in that it coordinates the needs of the second course through preparation in Jazz Arranging and Composition. Students will be required to arrange and orchestrate existing compositions and compose original music in the jazz idiom.
- MUS 04541: Jazz Piano 1 s.h.
This course in applied music for the non-pianist focuses on the basic keyboard skills needed by the professional jazz musician, especially the use of the piano to realize harmonic progressions and concepts. The student must have passed the piano proficiency exam before enrolling for this course.
- MUS 04545: Opera Role Study I 3 s.h.
A complete opera role from the standard repertoire will be learned and performed in each semester through private instruction and coaching, either in staged or unstaged, in public.
- MUS 04546: Opera Role Study II 3 s.h.
A complete opera role from the standard repertoire will be learned and performed in each semester through private instruction and coaching, either in staged or unstaged, in public.
- MUS 04551: Piano Accompanying I 1 s.h.
This course in applied piano accompanying will pair the student with a vocal or instrumental student under the supervision of the piano instructor.
- MUS 04555: Counterpoint 3 s.h.
The principles of counterpoint and its practical application in musical literature are studied.
- MUS 04557: Advanced Orchestration 3 s.h.
This course will introduce the conducting student to the practical considerations of performance on orchestral instruments and their use in orchestral repertoire.
- MUS 04560: Form And Analysis 3 s.h.
The course presents important contemporary approaches to the analysis and understanding of music of all periods including those of the present. Students will present analyses of works appropriate to their graduate level studies in their major area. This is a required course for all students in the master of music program.
- MUS 04561: Score Reading I 1 s.h.
This course begins training the conducting student to read orchestral scores, including the mastery of clefs and transposition. It is a requirement for the Master of Music in Instrumental Conducting.
- MUS 04562: Score Reading II 1 s.h.
This course continues training the conducting student to read orchestral scores, including the complete mastery of clefs and transposition, and the study of score reductions. It is a requirement for the Master of Music in Instrumental Conducting.
- MUS 04565: Seminar In Band Conducting 3 s.h.
This course will involve classroom discussion, research, and scholarly presentations of topics related to the business of conducting, where students will share their views with other students and the facilitator. The class will visit rehearsals of professional organizations and bands and will interview known professionals in the field. A lecture presentation by each student on a relevant conducting topic will conclude the semester.

Course Descriptions

- MUS 04570: 20th Century Literature And Techniques 3 s.h.
This course explores 20th century music and the compositional techniques it embodies. Emphasis will be upon important trends and developments that are still current in the music of today. Each student will present his/her own research in this area of study as it relates to their major area of study. This is a required course for the master of music in composition.
- MUS 04575: Cd Project 2 s.h.
The student will develop and produce a compact disk containing the student's original compositions through the choice of repertoire to be performed, the rehearsal of the material, to the completion of the technical and business details leading to a final product.
- MUS 05500: Analyzing Jazz Structures 1 s.h.
Prerequisite(s): None
This course will guide the student through the basics of jazz song forms and solo construction. Analysis of both will be stressed. This course is repeated for three semesters, focusing on different materials and repertoire each semester.
- MUS 05501: Jazz Analyzing Structures 1 s.h.
Prerequisite(s): None
This course will guide the student through the basics of jazz song forms and solo construction. Analysis of both will be stressed. This course is repeated for three semesters, focusing on different materials and repertoire each semester.
- MUS 05502: Analyzing Jazz Structures 1 s.h.
Prerequisite(s): None
This course will guide the student through the basics of jazz song forms and solo construction. Analysis of both will be stressed. This course is repeated for three semesters, focusing on different materials and repertoire each semester.
- MUS 05503: Jazz Composition 3 s.h.
Prerequisite(s): None
This course will guide the student through the basics of jazz composition from historical perspectives, analysis of great seminal composers, small and large form compositions, and analysis of various compositional styles.
- MUS 08156: Contemporary Music Ensemble 1 s.h.
Dedicated to the performance of new music, this ensemble performs the works of Rowan composition students and other contemporary composers.
- MUS 10501: Graduate Secondary Applied Instrument I 2 s.h.
Private instruction on a student's major instrument. Designed to guide the development of each student toward the realization of his fullest potential as a performer.
- MUS 10502: Graduate Secondary Applied Instrument II 2 s.h.
Private instruction on a student's major instrument. Designed to guide the development of each student toward the realization of his fullest potential as a performer.
- MUS 10503: Graduate Secondary Applied Instrument III 2 s.h.
Private instruction on a student's major instrument. Designed to guide the development of each student toward the realization of his fullest potential as a performer.
- MUS 10504: Graduate Secondary Applied Instrument IV 2 s.h.
Private instruction on a student's major instrument. Designed to guide the development of each student toward the realization of his fullest potential as a performer.
- MUS 10505: Graduate Secondary Applied Voice I 2 s.h.
Private instruction in techniques of singing. Designed to guide the development of each student toward the realization of his fullest potential as a performer.
- MUS 10506: Graduate Secondary Applied Voice II 2 s.h.
Private instruction in techniques of singing. Designed to guide the development of each student toward the realization of his fullest potential as a performer.

Course Descriptions

MUS 10507:	Graduate Secondary Applied Voice III	2 s.h.
Private instruction in techniques of singing. Designed to guide the development of each student toward the realization of his fullest as a performer.		
MUS 10508:	Graduate Secondary Applied Voice IV	2 s.h.
Private instruction in techniques of singing. Designed to guide the development of each student toward the realization of his fullest potential as a performer.		
MUS 10509:	Graduate Applied Instrument I	4 s.h.
Private instruction on a student's major instrument. Designed to guide the development of each student toward the realization of his fullest performer as a performer.		
MUS 10510:	Graduate Applied Instrument II	4 s.h.
Private instruction on a student's major instrument. Designed to guide the development of each student toward the realization of his fullest potential as a performer.		
MUS 10511:	Graduate Applied Instrument III	4 s.h.
Private instruction on a student's major instrument. Designed to guide the development of each student toward the realization of his fullest potential as a performer.		
MUS 10512:	Graduate Applied Instrument IV	4 s.h.
Private instruction on a student's major instrument. Designed to guide the development of each student toward the realization of his fullest potential as a performer.		
MUS 10513:	Graduate Applied Voice I	4 s.h.
The continuation, on an advanced level, of the intensive study of vocal technique and performance begun in the undergraduate level. Successful completion requires the preparation and performance of a graduate recital of sufficiently high quality to provide access to professional auditions, doctoral programs and teaching positions in higher education.		
MUS 10514:	Graduate Applied Voice II	4 s.h.
The continuation, on an advanced level, of the intensive study of vocal technique and performance begun in the undergraduate level. Successful completion requires the preparation and performance of a graduate recital of sufficiently high quality to provide access to professional auditions, doctoral programs and teaching positions in higher education.		
MUS 10515:	Graduate Applied Voice III	4 s.h.
The continuation, on an advanced level, of the intensive study of vocal technique and performance begun in the undergraduate level. Successful completion requires the preparation and performance of a graduate recital of sufficiently high quality to provide access to professional auditions, doctoral programs and teaching positions in higher education.		
MUS 10516:	Graduate Applied Voice IV	4 s.h.
The continuation, on an advanced level, of the intensive study of vocal technique and performance begun in the undergraduate level. Successful completion requires the preparation and performance of a graduate recital of sufficiently high quality to provide access to professional auditions, doctoral programs and teaching positions in higher education.		
MUS 10517:	Graduate Applied Instrument I	6 s.h.
Private instruction on a student's major instrument. Designed to guide the development of each student toward the realization of his fullest potential as a performer.		
MUS 10518:	Graduate Applied Instrument II	6 s.h.
Private instruction on a student's major instrument. Designed to guide the development of each student toward the realization of his fullest potential as a performer.		
MUS 10519:	Graduate Applied Instrument III	6 s.h.
Private instruction on a student's major instrument. Designed to guide the development of each student toward the realization of his fullest potential as a performer.		
MUS 10520:	Graduate Applied Instrument IV	6 s.h.
Private instruction on a student's major instrument. Designed to guide the development of each student toward the realization of his fullest potential as a performer.		

Course Descriptions

- MUS 10521: Graduate Applied Voice I 6 s.h.
The continuation, on an advanced level, of the intensive study of vocal technique and performance begun in the undergraduate level. Successful completion requires the preparation and performance of a graduate recital of sufficiently high quality to provide access to professional auditions, doctoral programs and teaching positions in higher education.
- MUS 10522: Graduate Applied Voice II 6 s.h.
The continuation, on an advanced level, of the intensive study of vocal technique and performance begun in the undergraduate level. Successful completion requires the preparation and performance of a graduate recital of sufficiently high quality to provide access to professional auditions, doctoral programs and teaching positions in higher education.
- MUS 10523: Graduate Applied Voice III 6 s.h.
The continuation, on an advanced level, of the intensive study of vocal technique and performance begun in the undergraduate level. Successful completion requires the preparation and performance of a graduate recital of sufficiently high quality to provide access to professional auditions, doctoral programs and teaching positions in higher education.
- MUS 10524: GRADUATE APPLIED VOICE IV 6 s.h.
The continuation, on an advanced level, of the intensive study of vocal technique and performance begun in the undergraduate level. Successful completion requires the preparation and performance of a graduate recital of sufficiently high quality to provide access to professional auditions, doctoral programs and teaching positions in higher education.
- MUS 10525: Graduate Music Composition I 4 s.h.
The student develops his undergraduate compositional skills, completing a major work for chamber ensemble which demonstrates an ability to use contemporary compositional ideas in the organization of music.
- MUS 10526: Graduate Music Composition II 4 s.h.
This course prepares the student to complete his/her major requirement in music composition: a thesis consisting of a major compositional work and a paper describing its genesis. May be re-taken.
- MUS 10527: Graduate Music Composition I 6 s.h.
The student develops his undergraduate composition skills, completing a major work for chamber ensemble which demonstrates an ability to use contemporary compositional ideas in the organization of music.
- MUS 10528: Graduate Music Composition II 6 s.h.
This course prepares the student to complete his/her major requirement in music composition: a thesis consisting of a major compositional work and a paper describing its genesis. May be re-taken.
- MUS 10529: Graduate Conducting I 4 s.h.
Private instructing in conducting. This course in the conducting sequence, is designed to guide the development of conductors to a full realization of their technical and musical potential.
- MUS 10530: Graduate Conducting II 4 s.h.
Private instructing in conducting. This course in the conducting sequence, is designed to guide the development of conductors to a full realization of their technical and musical potential.
- MUS 10531: Graduate Conducting III 4 s.h.
Private instructing in conducting. This course in the conducting sequence, is designed to guide the development of conductors to a full realization of their technical and musical potential. During semester III of the conducting sequence, the student is expected to serve as Assistant Conductor of an appropriate ensemble at the discretion of the conducting faculty.
- MUS 10532: Graduate Conducting IV 4 s.h.
Private instructing in conducting. This course in the conducting sequence, is designed to guide the development of conductors to a full realization of their technical and musical potential. During semester IV of the applied conducting sequence, the student is expected to serve as Assistant Conductor of an appropriate ensemble at the discretion of the conducting faculty. In addition, as a culminating activity, the student will present a full-length conducting recital.
- MUS 10533: Graduate Conducting I 6 s.h.
Private instructing in conducting. This course in the conducting sequence, is designed to guide the development of conductors to a full realization of their technical and musical potential.

Course Descriptions

MUS 10534:	Graduate Conducting II Private instructing in conducting. This course in the conducting sequence, is designed to guide the development of conductors to a full realization of their technical and musical potential.	6 s.h.
MUS 10535:	Graduate Conducting III Private instructing in conducting. This course in the conducting sequence, is designed to guide the development of conductors to a full realization of their technical and musical potential. During semester III of the conducting sequence, the student is expected to serve as Assistant Conductor of an appropriate ensemble at the discretion of the conducting faculty.	6 s.h.
MUS 10536:	Graduate Conducting IV Private instructing in conducting. This course in the conducting sequence, is designed to guide the development of conductors to a full realization of their technical and musical potential. During semester IV of the conducting sequence, the student is expected to serve as Assistant Conductor of an appropriate ensemble at the discretion of the conducting faculty. In addition, as a culminating activity, the student will present a full-length conducting recital.	6 s.h.
MUS 10537:	Graduate Ensemble: Concert Choir	1 s.h.
MUS 10538:	Graduate Ensemble: Concert Choir	1 s.h.
MUS 10539:	Graduate Ensemble: Concert Choir	1 s.h.
MUS 10540:	Graduate Ensemble: Concert Choir	1 s.h.
MUS 10541:	Graduate Ensemble: Jazz Band	1 s.h.
MUS 10542:	Graduate Ensemble: Jazz Band	1 s.h.
MUS 10543:	Graduate Ensemble: Jazz Band	1 s.h.
MUS 10544:	Graduate Ensemble: Jazz Band	1 s.h.
MUS 10545:	Graduate Ensemble: Lab Band	1 s.h.
MUS 10546:	Graduate Ensemble: Lab Band	1 s.h.
MUS 10547:	Graduate Ensemble: Lab Band	1 s.h.
MUS 10548:	Graduate Ensemble: Lab Band	1 s.h.
MUS 10549:	Graduate Ensemble: Orchestra	1 s.h.
MUS 10550:	Graduate Ensemble: Orchestra	1 s.h.
MUS 10551:	Graduate Ensemble: Orchestra	1 s.h.
MUS 10552:	Graduate Ensemble: Orchestra	1 s.h.
MUS 10553:	Graduate Ensemble: Wind Ensemble	1 s.h.
MUS 10554:	Graduate Ensemble: Wind Ensemble	1 s.h.
MUS 10555:	Graduate Ensemble: Wind Ensemble	1 s.h.
MUS 10556:	Graduate Ensemble: Wind Ensemble	1 s.h.

Course Descriptions

<p>MUS 40315: Entrepreneurship in the Music Industry <i>Prerequisites: MUS 40111 and MUS 40113 and MUS 40212</i></p>	<p>3 s.h.</p> <p>This course provides an in-depth view of the major technological disruptions and the ensuing business opportunities that have shaped the music industry, from wax cylinder to vinyl record, cassette, CD, MP3, and Internet streaming services, with a particular focus on how the digital age has utterly transformed the music industry. Comprehensive research and analysis of current and cutting-edge music business models and marketing strategies complete this course curriculum.</p>
<p>MUS 97301: Trombone Class</p>	<p>.5 s.h.</p> <p>Designed for Music Education majors, this course addresses trombone pedagogy and basic trombone performance.</p>
<p>MUS 97302: Percussion Class</p>	<p>1 s.h.</p> <p>A study of rudimental and ensemble techniques of snare drum, timpani, bass drum, cymbals and accessory instruments.</p>
<p>MUS 97309: Trumpet Class</p>	<p>.5 s.h.</p> <p>Designed for Music Education majors, this course addresses trumpet pedagogy and basic trumpet performance.</p>
<p>MUS 97310: Tuba Class</p>	<p>.5 s.h.</p> <p>Designed for Music Education majors, this course addresses tuba pedagogy and basic tuba performance.</p>
<p>MUS 97312: Conducting-Instrumental II <i>Prerequisites: MUS 97212</i></p>	<p>2 s.h.</p> <p>This course demonstrates and rehearses the skills of instrumental conducting through music for instrumental ensembles.</p>
<p>MUS 97313: Conducting-Choral II <i>Prerequisites: MUS 97213</i></p>	<p>2 s.h.</p> <p>Students apply basic conducting techniques to repertoire spanning each of the major time periods. In addition to gesture, great emphasis is given to score reading and score analysis skills.</p>
<p>MUS 97400: Voice Class</p>	<p>1 s.h.</p> <p>A study of the basic principles of singing taught in a group setting. Students will learn beginners breathing technique, tone placement and projection through the singing of group and solo repertoire. Course is open to non-music majors.</p>
<p>MUS 97401: Bassoon Class</p>	<p>.5 s.h.</p> <p>This course teaches the fundamentals of the bassoon.</p>
<p>MUS 98101: Foundations of Music Therapy <i>Prerequisite: Admissions to Music Therapy Program.</i></p>	<p>3 s.h.</p> <p>Develop an understanding of the methodological and theoretical foundations of this discipline. Learn how to use music as a therapeutic tool to treat a variety of clients, as well as the sociological, psychological, and philosophical theories of music.</p>
<p>MUS 98102: Principles of Music Therapy I <i>Prerequisite(s): Admission to Music Therapy Program</i></p>	<p>3 s.h.</p> <p>In Principles of Music Theory I students will learn to interact with people who have learning, neurological, motor, and medical problems. Students will need to focus on music therapy literature specific for this group of people and be ready to apply their theoretical studies to clinical work.</p>
<p>MUS 98103: Music Therapy Practicum I <i>Prerequisite: Admission to Music Therapy program</i></p>	<p>1 s.h.</p> <p>This course will provide an opportunity for students to acquire supervised experience using music therapy, including assessment, treatment planning, evaluation, and other aspects that support clinical practice. Students will complete a total of 60 supervised clinical hours as part of this course.</p>
<p>MUS 98104: Therapeutic Principles for Music Therapist <i>Prerequisite: Admission to Music Therapy program</i></p>	<p>1 s.h.</p> <p>This course focuses on understanding of therapeutic principles and the therapeutic relationship that are at the basis of music therapy treatment. Topics covered are foundational to music therapy, focusing on therapeutic principles underlying music therapy. These include awareness of personal motivation and values in therapy, dynamics and process of the therapeutic relationship, awareness of ethical issues in therapy, group dynamics, multicultural awareness and applications to therapy, and theories underlying various approaches to therapy.</p>

Course Descriptions

- MUS 98105: Clinical Piano Skills I 2 s.h.
Prerequisite(s): Admission to Music Therapy program; functional piano competence; students must have passed the piano proficiency exam required of undergraduate music majors.
Students learn piano skills needed to implement music therapy in clinical settings. Includes harmonization, accompanying in various styles, and various styles of improvisation. Course includes application of musical concepts and terminologies, such as modes, idioms, styles, scales, and various musical forms into clinical scenarios.
- MUS 98106: Clinical Guitar Skills 2 s.h.
Prerequisite: Admission to Music Therapy program
This course is designed to enable students to accompany themselves and to lead others in the singing of simple folk and popular songs, progressing from simple strumming and finger picking to more advanced accompaniment patterns, transposition and the use of the capo.
- MUS 98107: Music Applications to Music Therapy I 1 s.h.
Prerequisite: Admission to Music Therapy program
This course will provide an opportunity for music therapy students to apply the music skills that they are learning in other courses (music and music therapy) to the type of musical situations that they will encounter as music therapists. Skills to be practiced include leading songs using simple accompaniment styles, playing and singing songs of basic music therapy repertoire using Q-chord, autoharp, and percussion instruments, and sight reading basic music therapy repertoire.
- MUS 98108: Psychology of Music 3 s.h.
Prerequisite(s): Admission to Music Therapy program
This course will provide an opportunity for students to learn about psychological foundations of music, including neurology and the brain, music cognition and perception, emotional meaning of music, musical development and learning, and testing for musical ability. Students will be expected to apply the knowledge acquired in this course in music therapy, music education, and other musical interests.
- MUS 98109: Principles of Music Therapy II 3 s.h.
Prerequisite: Admission to Music Therapy program
In Principles of Music Therapy II students will learn to interact with people who have learning, neurological, motor, and medical problems. Students will need to focus on music therapy literature specific for this group of people and be ready to apply their theoretical studies to clinical work.
- MUS 98110: Music Therapy Research Methods 3 s.h.
Prerequisite: Admission to Music Therapy program
This course will focus on research methods in conducting, reading, and interpreting music in the context of music therapy; it will include quantitative, qualitative, and mixed methodologies.
- MUS 98111: Music Therapy Practicum II 1 s.h.
Prerequisite(s): Admission to Music Therapy program; MUS 98103
This course will provide an opportunity for students to acquire supervised experience using music therapy, including assessment, treatment planning, evaluation, and other aspects that support clinical practice. Students will complete a total of 60 supervised clinical hours as part of this course.
- MUS 98112: Clinical Piano Skills II 2 s.h.
Prerequisite(s): Admission to Music Therapy program; MUS 98105
Further development of piano skills needed to implement music therapy in clinical settings. Includes harmonization, accompanying in various styles, and various styles of improvisation. Course includes application of musical concepts and terminologies, such as modes, idioms, styles, scales, and various musical forms into clinical scenarios. Builds on material learned in Clinical Piano Skills I and includes additional applications to clinical settings.
- MUS 98113: Music Applications to Music Therapy II 1 s.h.
Prerequisite(s): Admission to Music Therapy program; MUS 98107
This course will provide an opportunity for music therapy students to apply the music skills that they are learning in other courses (music and music therapy) to the type of musical situations that they will encounter as music therapists. Skills to be practiced include leading songs using simple accompaniment styles, playing and singing songs of basic music therapy repertoire using Q-chord, autoharp, percussion instruments, and guitar, and sight reading basic music therapy repertoire.

Course Descriptions

- MUS 98115: Music Therapy Practicum III 1 s.h.
Prerequisite(s): Admission to Music Therapy program; MUS 98111
This course will provide an opportunity for students to acquire supervised experience using music therapy, including assessment, treatment planning, evaluation, and other aspects that support clinical practice. Students will complete a total of 60 supervised clinical hours as part of this course.
- MUS 98116: Music Applications to Music Therapy III 1 s.h.
Prerequisite(s): Admission to Music Therapy program; MUS 98113
This course will provide an opportunity for music therapy students to apply the music skills that they are learning in other courses (music and music therapy) to the type of musical situations that they will encounter as music therapists, refining their skills in these areas. Skills to be practiced include leading songs using simple accompaniment styles, playing and singing songs of basic music therapy repertoire using Q-chord, autoharp, percussion instruments, guitar, and piano and keyboard, and sight reading basic music therapy repertoire.
- MUS 98117: Residency in Music Therapy 2 s.h.
Prerequisite: Completion of all courses in Music Therapy program; residency is final requirement; MUS 98101, MUS 98108, MUS 98102, MUS 98109, MUS 98110, MUS 98103, MUS 98111, MUS 98115, MUS 98105, MUS 98112, MUS 98106, MUS 98107, MUS 98113, MUS 98116, MUS 98104, PSY 03200
Residency of 1040 hours at an AMTA- or Rowan-approved clinical training center. Application is made upon departmental approval. Development of music therapy clinical skills. Requires clinical work and ongoing supervision from the clinical site (residency supervisor) and/or music therapy faculty. Student will plan and lead individual and group music therapy sessions, write assessment and goal plans, participate in treatment teams, and take part in other activities of the clinical facility. The residency should be taken at a medical facility.
- MUSG 05547: Music And The Related Arts 3 s.h.
The aesthetics of music is approached from the point of view that the same forces motivate all the arts and that significant parallels exist among them. This course may not be offered annually.
- MUSG 06303: Choral Literature 2 s.h.
A chronological study and analysis of small and large choral works from the early chant to the present is stressed through recordings, live performances and class participation. Conducting of choral work is a major activity of this course.
- MUSG 06503: Jazz History 3 s.h.
This course presents an overview of jazz history and requires the student to prepare indepth studies of any three topics related to the history of jazz, chosen in consultation with the professor. Students must exhibit their mastery of these areas by written and oral assignments.
- MUSG 06505: History And Literature Of Guitar And Lute 3 s.h.
This course provides indepth study of the literature of the family of plucked instruments, especially the guitar and lute, from the Renaissance to the present day.
- MUSG 06506: Art Song Literature 3 s.h.
The indepth study of the evolution and development of the art song as a genre, its development, structure, styles and composers from the 17th century to the present. Aural familiarity and stylistic recognition will be emphasized, as will the association of song composers with their works and periods.
- MUSG 06509: String Instrument Literature 3 s.h.
This course explores the literature written for stringed instruments from both stylistic and technical points. Students will study and analyze the most important solo works for the bowed string instruments and will be expected to identify aurally these works and to provide written analyses of several. It is a required course for string students in the master of music program and is available also as an elective.
- MUSG 06510: Keyboard Literature 3 s.h.
This course presents a broad overview of the massive literature for the keyboard from Baroque through the end of the 20th century. Students learn to listen, to analyze, and to identify the stylistic characteristics of the great composers for the piano. They will, within the course of the semester, choose several composers whose works are of particular interest to them, thoroughly catalogue their literature and analyze in depth several compositions by each. The results of this work will be presented in oral and written form.

Course Descriptions

- MUSG 06511: Twentieth Century Band Literature 3 s.h.
This course will survey all levels of band repertoire, from elementary through high school, and standard college and professional band works. Students will have a knowledge of where to find musical selections for any scenario, from teaching works to standard competition pieces and public performance selections.
- MUSG 06542: Opera Literature 3 s.h.
An historical survey of opera, its development and composers, from 1600 to the present. The course will emphasize the most important operas, their plots, forms and main musical numbers.
- MUSG 06545: Development And Interpretation Of Choral Literature 2 s.h.
Studies choral music from Gregorian chant to contemporary works. Representative works of various types studied in detail. These are drawn from various categories such as motet, madrigal, polyphonic chanson, cantata and oratorio. This course may not be offered annually.
- MUSG 06546: Development And Interpretation Of Symphonic Literature 3 s.h.
The evolution of instruments, the standardization of the orchestra in the classic period, the introduction of new instruments and the growth of the orchestra are studied. The principal orchestral forms such as the symphony and the concerto are studied and various types of orchestration are examined. This course may not be offered annually.
- MUSG 06555: SEL TOPICS-MUSIC ED 3 s.h.
- SMED 01120: Foundations Of Music Education 3 s.h.
Foundations of Music Education is an introductory course in the music education program. It provides a broad overview of the field of music education, addressing the historical development of music education in the United States as well as current approaches and issues in the field. The course is framed by three guiding questions: What is the purpose of music education?; How can students best explore music?; and How can teachers best create music learning experiences for their students? In addition, two projects that extend throughout the music education major are introduced: a personal philosophy of music education, and a digital portfolio.
- SMED 32329: Teaching/Learning Music A: Elementary General Music 3 s.h.
Prerequisites: C- or better in MUS 04130, MUS 04131, MUS 04132, MUS 04133, MUS 04240, MUS 04241, MUS 04242, MUS 04243, EDUC 01284, READ 30319 and SMED 33420
The methods, materials and techniques of teaching music from K through 12 are surveyed. Attention is given to the developmental sequence in the building of musical concepts necessary for the organization of an effective general music program in the public schools.
- SMED 32330: Teaching/Learning Music B: Vocal Methods And Techniques 3 s.h.
This course, along with other courses in a series, helps to prepare students to teach the choral arts in the public schools with particular attention to grades 7-12. Techniques of teaching, vocal training, choral organization and the philosophy of teaching choral music are the areas to be emphasized.
- SMED 32331: Teaching/Learning Music B: Instrumental Methods And Techniques 3 s.h.
A survey is made of the necessary understanding, techniques, and materials to develop an effective instrumental music program. Consideration is given to the place of instrumental music and its relationship to the total school program.
- SMED 32502: Teaching Of Music Theory 3 s.h.
Methods of teaching theory such as listening, reading, writing, analyzing, playing and creating are examined. The content of music theory courses and representative music theory texts are analyzed and evaluated. This course may not be offered annually.
- SMED 32505: Selected Approaches In Music Education 3 s.h.
The approaches are those of: Gordon, Kodaly, Orff, Montessori, Suzuki, and Jacques-Dalcroze. The student will research each approach, and while doing an in-depth study on one approach, develop a curriculum for his or her teaching situation. This course is offered bi-annually.
- SMED 32506: Guitar Pedagogy 3 s.h.
The student will be made aware of the philosophies of guitar instruction, be familiar with the two or three most widely-used method books and will have begun to develop his/her own pedagogical system. A practicum experience is included in the course.

Course Descriptions

SMED 32507: Piano Pedagogy 3 s.h.
The course will systematically present the pedagogical methods and materials readily found in the United States for teaching beginning, intermediate and early advanced students of the piano. A supervised practicum is an essential part of the course.

NURS 03303: Comprehensive Health Assessment 3 s.h.
This course builds upon the Registered Nurse's fundamental knowledge and skills of health assessment. In utilizing a systematic approach, the student will develop a holistic approach in assessing the patient throughout the lifespan. Upon completion, the student will show competency in obtaining a thorough health history and becoming efficient in the physical skills of inspection, palpation, percussion and auscultation. Differences between normal and abnormal findings will be explored and appropriate documentation of findings will be stressed. Students will also be exposed to the cultural differences in health and will incorporate evidence based approaches to assessment.

NURS 03304: Nursing Informatics 3 s.h.
This course reviews the information needs and information systems related to nursing practice. Students will experience the manner in which informatics supports all areas of practice, including education, clinical practice, administration and research.

NURS 03309: Topics In Health Care Ethics 3 s.h.
Students in this nursing course will examine moral dilemmas created or intensified by recent advances in medical technology and study ways of analyzing those dilemmas. Discussion topics include: euthanasia and the right to die, abortion, behavior modification, allocation of scarce medical resources, in vitro fertilization, genetic screening and engineering and human experimentation. These moral dilemmas will be related to nursing.

NURS 03401: Community Health Nursing 6 s.h.
Prerequisite: NURS 03303
This course will explore how community health nurses use concepts from nursing and public health to provide comprehensive, continuous, preventative healthcare thereby promoting health for communities, populations at risk, aggregates, families, and individuals. This course prepares the RN to BSN student to develop competencies in managing health status in the context of multicultural communities. Students will be able to expand current knowledge and skills, develop enhanced research and critically thinking skills with the application of these skills to the multicultural community and the global society considering the biopsychosocial, cultural, ethical, legal, and economic issues that impact the community as a client. The clinical practicum focuses on clients with diverse needs in a variety of settings.

NURS 03403: Nursing Care Delivery Systems 4 s.h.
Prerequisite: NURS 03303
The focus of this course is the professional nurse's leadership and management role within health care delivery systems. The multi-faceted aspects of the role of the nurse as leader and manager are explored in depth, with emphasis on the role of the nurse as change agent. Organizational behavior, decision-making, the change process and the management of health care organizations are components of this course. The concepts of professionalism, leadership-management, research and teaching-learning are integrated with the professional nurse's role. This course prepares students to function as change agents in the health care delivery system. The clinical component focuses on the application of relevant theory and research as a basis for decision-making. Students are mentored by faculty, and interact with members of the nursing leadership team to explore Nursing leadership.

NURS 03404: Research Applications In Nursing Practice - WI 3 s.h.
Prerequisites: STAT 02100 and COMP 01112
This course introduces students to the concepts and process of research in nursing. Emphasis is placed on writing and critiquing published studies and developing plans for using research findings in practice.

NURS 03405: Health Care Policy And Finance 3 s.h.
The focus of this course is the professional nurse's role in health care policy and finances within health care systems. The multi-faceted aspects of health care policy making and financing within today's ever-changing health care environment are explored. Risk management and quality care are integrated into the course. This course gives the student a financial understanding of the health care delivery system. Students are exposed to the political and legislative process within health care agencies and health care policy development at the state and federal levels. Ethical and legal issues in nursing and health care are explored.

Course Descriptions

- NURS 03503: Nursing Research** 4 s.h.
Prerequisite(s): STAT 02100 or the equivalent and enrollment in the UMDNJ/Rowan Joint R.N. to B.S.N. Program and NURS 03404
Students focus on the theoretical and scientific underpinnings for evidence-based advanced nursing practice. In-depth critical analysis of scientific research and methods for systemic review, as relevant to patient care and health policy outcomes, are emphasized. Ethical, legal, economic, and cultural issues surrounding the conduct and utilization of research practice are examined. Students obtain skills in using bibliographic databases. The roles of the advanced practice nurse in research are explored.
- NURS 05500: Integrated Information Technology in Health Care** 3 s.h.
Prerequisite(s): BSN, BS, BA (in health care related field) and evidence of successful completion of an undergraduate computer course that contained content in healthcare informatics.
The delivery of efficient health care requires the integration of information technology. This course builds on basic informatics knowledge and challenges the learner to apply these principles to the health care setting. The student will consider emerging technology and creatively investigate ways to improve patient care.
- NURS 05501: Advanced Health Assessment** 3 s.h.
Prerequisite(s): Licensed as a Registered Nurse (R.N.) AND BSN OR BA (If student has BA then NURS03303 AND NURS 03404 AND NURS 03405)
Advanced Health Assessment prepares the graduate nurse to identify abnormal findings and critically analyze these findings. Critical analysis will result in problem identification and planning. This course will serve as a core requirement for completion of a graduate nursing degree.
- NURS 05502: Teaching and Learning in Nursing** 3 s.h.
Successful Completion of Core MSN courses with a minimum GPA of 3.0
This course begins preparation for the professional nurse to investigate teaching and learning in the nursing field. This initial course lays the foundation for more advanced testing and curricular development courses. Key concepts for investigation include evidence based teaching, learning theories, nursing education theories, technological advances in nursing education and clinical competency.
- NURS 05503: Advanced Nursing Research** 4 s.h.
Prerequisite(s): STAT 02100 or equivalent; enrollment in Rowan Nursing Program
Students focus on the theoretical and scientific underpinnings for evidence-based advanced nursing practice. In-depth critical analysis of scientific research and methods for systemic review, as relevant to patient care and health policy outcomes, are emphasized. Ethical, legal, economic, and cultural issues surrounding the conduct and utilization of research practice are examined. Students utilize skills in searching bibliographic databases. The roles of the master's prepared nurse in research are explored.
- NURS 05504: Advanced Pathophysiology** 3 s.h.
Prerequisite: Licensure as a registered nurse and NURS 03303
This course describes the disordered physiology and clinical consequences resulting from common disease processes. Seminar discussions focus on alterations in normal functions of major organ systems. Through problem-solving exercises and case studies, students are encouraged to recognize the pathophysiologic basis of clinical findings associated with disease processes. This course serves as an essential link between the basic sciences and clinical management.
- NURS 05505: Advanced Pharmacology** 3 s.h.
Prerequisite: Licensure as a registered nurse and NURS 03303 and NURS 05504
This course expands students' knowledge of clinical pharmacology to provide a sound basis from which to engage in prescriptive drug management. Pharmacodynamics, pharmacokinetics and pharmacotherapeutics of drug classes are explored through a variety of teaching-learning methodologies, including seminar discussion, problem-based case study presentations, focused readings, and web-based exercises.
- NURS 05506: Learning Assessment in the Classroom and Clinical Environment** 3 s.h.
Successful Completion of Core MSN courses with a minimum GPA of 3.0
Nurse educators use a variety of strategies to evaluate student learning in a variety of settings. This course prepares the nurse educator to use assessment and evaluation strategies effectively in relationship to all domains of learning.
- NURS 05507: Leadership & Care Delivery Environment** 3 s.h.
Prerequisite(s): Licensed as a Registered Nurse (R.N.) AND BSN OR BA (If BA then NURS 03303 AND NURS 03404 AND NURS 03405)
This course is focuses on the analysis, integration and application of principles of leadership and management to health care organizations and to population-based efforts across the health care delivery system. The concepts of leadership and stewardship are explored from a historical and contemporary perspective with particular application to the health professions. The course fosters self awareness as a necessary condition for effective self management and self development, and a prerequisite for leading others. Special emphasis is placed on the practical skills needed for nurses to succeed as leaders

and managers in today's local, state, national and international health care environment.

NURS 05508: Special Issues & Trends In Nursing 3 s.h.
Prerequisites: Licensed as a Registered Nurse (R.N.) AND BSN OR BA (if BA then NURS 03303 AND NURS 03404 AND NURS 03405)

This course focuses on current trends and issues in professional nursing and health care delivery. The course is individually tailored to meet each student's educational goals and area of special interest in nursing and healthcare delivery in the twenty-first century. The topic will vary dependent on the student's interests, goals and objectives as discussed with faculty. Students under the direction of an instructor complete individually designed projects addressing major trends and issues in their emphasis area of nursing and health care delivery.

NURS 05509: Clinical Nurse Leader Role 3 s.h.
Prerequisites: Minimum GPA of 3.0: NURS 03504 AND NURS 03505 AND NURS 03503 AND NURS 05501 ANDAH 05501 AND NURS 05507 AND NURS 05508 AND LICENSED AS A REGISTERED NURSE (R.N.) AND BSN

This course immerses the student in the role of the Clinical Nurse Leader. The Clinical Nurse Leader (CNL) is a master's prepared nurse who delivers expertise in care as a generalist. The CNL manages care for patients, individuals, families, and communities. The CNL functions as a provider and manager for care at the point of system entry and strives to produce quality based outcomes. This course discusses the role of the clinical nurse leader as leader, outcomes manager and care environment manager. The graduate student, through participatory learning, will master the key concepts that are imperative to the successful transition into the CNL role.

NURS 05510: Evidence Based Practice In Illness/Disease Management 3 s.h.
Prerequisites: Minimum GPA of 3.0: NURS 03504 AND NURS 03505 AND NURS 03503 AND NURS 05501 ANDAH 05501 AND NURS 05507 AND NURS 05508 AND LICENSED AS A REGISTERED NURSE (R.N.) AND BSN

Evidence based practice in illness and disease management is a requirement for quality care delivery. This course serves as one of the mandatory courses in the clinical nurse leader track. This course discusses care management, client outcomes, application of assessment, pharmacology, and pathophysiology to specific disease states, and evidence-based practice.

NURS 05511: Clinical Nurse Leader Practicum I 4 s.h.
Prerequisites: NURS 05509 AND NURS 05510

This course prepares the graduate nursing student for the full clinical implementation of the Clinical Nurse Leader role. Concepts of care environment management are discussed and explored in the clinical setting. Through and interwoven marriage of didactic and clinical experience, the registered nurse will begin to experience the role of the Clinical Nurse Leader. 200 Clinical Hours Required

NURS 05512: Clinical Nurse Leader Practicum II 4 s.h.
Prerequisite: NURS 05511

The Clinical Nurse Leader (CNL) is a master's prepared nurse who delivers expertise in care as a generalist. The CNL manages care for patients, individuals, families, and communities. The CNL functions as a provider and manager for care at the point of system entry and strives to produce quality based outcomes. This course prepares the graduate nursing student for the full clinical implementation of the Clinical Nurse Leader role. Through an interwoven marriage of didactic and clinical experience, the registered nurse will experience the role of the Clinical Nurse Leader. 200 Clinical Hour Required

NURS 05513: Nursing Curricular Design and Evaluation 3 s.h.
Prerequisite(s): Successful completion of CORE MSN courses with minimum GPA of 3.0, NURS 05502, NURS 05506

Nurse educators are responsible to develop curricular plans that reflect contemporary health care trends. Curricular plans should hinge upon realistic program outcomes that prepare graduates to function effectively in the health care environment. This course explores curricular design, program outcomes, and robust changes in response to curricular evaluation.

NURS 05514: Nurse Educator: Leadership, Quality, and Planned Change in the Practice Environment I 3 s.h.
Prerequisite(s): NURS 05502 and NURS 05506

The nurse educator must be aware of the political, institutional, social and economic factors that impact the role. This course introduces the nurse educator student to concepts of competence, self-assessment, quality improvement and scholarship within the educational environment. Nursing theory and nursing research are presented as a focus for clinical practice implications. The student is provided the opportunity to analyze nurse education and identify an area of practice interest by exploring various roles, such as nurse education at bedside, nurse educator in technical setting, and nurse educator in academia.

100 clinical hours required

Course Descriptions

NURS 05515: Nurse Educator: Leadership, Quality, and Planned Change in the Practice Environment II 4 s.h.

Prerequisite(s): NURS 05514

This course serves as the final comprehensive nurse educator course. All course activities are based upon the eight competencies of a nurse educator defined by the National League of Nursing (NLN) and supported by the American Association of the College of Nursing (AACN). Through ongoing faculty tutelage the graduate student completes eight competency projects. In addition, clinical submersion in the role of nurse educator occurs in a precepted environment. 200 clinical hours required

NURS 05516: Epidemiology Health Promotion & Disease Management 2 s.h.

Prerequisite: Completion of the core MSN course with a GPA of 3.0 or higher and admission into a Nurse Practitioner specialization

This course introduces the graduate nursing student to the concepts of epidemiology and population based medicine. Theories of wellness, health promotion and global opportunities for healthy living are presented. Through synthesis of these concepts the advanced practice nursing student will develop a theory of practice that incorporates health promotion throughout the lifespan. This course examines the relation of human groups to their environments as mediated by culture.

NURS 05517: Nurse Practitioner Role: History, Practice Regulations, Reimbursement and Ethics 2 s.h.

Prerequisite: Completion of the core MSN course with a GPA of 3.0 or higher and admission into a Nurse Practitioner specialization

This course will investigate the role of the nurse practitioner from a historical perspective with implications to current practice requirements. The nurse practitioner student will investigate the history of their specialty nurse practice, the regulations that apply to their specialty nurse practice, their role as a leader and advocate. A synthesis of this information that incorporates evidence based practice initiatives will occur. Special emphasis on ethical and cultural diversity and considerations about age variations, cultural variations, religious variations, health promotion and diversity across the lifespan will assist nurse practitioner students in developing their practice own practice philosophy.

NURS 05518: AGACNP: Assessment, Diagnosis, & Differential Disease Management 1 s.h.

Prerequisite: Completion of the core MSN courses with a GPA of 3.0 or higher and admission in the Adult-Gerontology Acute Care Nurse Practitioner specialization

This course challenges the nurse practitioner student to apply previously obtained advance assessment techniques to technologically derived data to differentiate conditions in acutely ill patients. Interpretation of relevant data, radiographs, and electrocardiographs will be presented. Condition treatment plans will be discussed in relation to available acute care settings. Laboratory practice will occur and include procedures commonly encountered in the acute setting. The student who does NOT meet the clinical requirements will receive a failing grade in this course regardless of the course work evaluation scores. 25 clinical hours

NURS 05519: AGACNP I: Evidence Based Clinical Care for Adult Gerontological Acute Care Nurse Practitioner 3 s.h.

Prerequisite(s): NURS 05518

This course introduces the AGACNP student to key concepts in the management of acutely ill individuals across the adult lifespan. All information is presented via case study format. The graduate student will apply evidence based practice, and diagnostic reasoning when developing the treatment plan. The need to organize advanced assessment, diagnostic interventions, and caring practices will be illuminated. Disease specific conditions are presented with a focus on pathophysiology and advanced therapeutics. This is the first of three clinical practice courses. Successful course completion is defined as success in both the didactic and clinical portions of the course. The student who does NOT meet the clinical requirements will receive a failing grade in this course regardless of the course work evaluation scores.

NURS 05520: AGACNP II: Evidence Based Clinical Care for Adult Gerontological Acute Care Nurse Practitioner 4 s.h.

Prerequisite(s): NURS 05519

This course investigates medical conditions encountered by the acutely ill adult across the lifespan. Special consideration is given to medically challenging cases and mental health disorders. The AGACNP student will analyze data and develop evidence based treatment plans. The challenges to perform in a collaborative environment and partner with patients, families and communities will be discussed. Topics for future nurse practitioner researcher will be discussed. The student will be submersed in clinical practice with an experienced preceptor. The student who does NOT meet the clinical requirements will receive a failing grade in this course regardless of the course work evaluation scores.

Course Descriptions

NURS 05521: AGACNP III: Evidence Based Clinical Care for Adult Gerontological Acute Care Nurse Practitioner 4 s.h.

Prerequisite(s): NURS 05520

This course investigates surgical conditions encountered by the acutely ill adult across the lifespan. Special consideration is given to challenging cases and traumatic injuries. The AGACNP student will analyze data and develop evidence based treatment plans. The ethical dilemmas presented by acute injury and advanced age will be discussed. Reimbursement and quality improvement initiatives will be presented. Topics for future nurse practitioner researcher will be discussed. The student will be submersed in clinical practice with a experienced preceptor.

The student who does NOT meet the clinical requirements will receive a failing grade in this course regardless of the course work evaluation scores.

NURS 05522: Family Nurse Practitioner I: Primary Care of the Adult Patient and Older Adult Patient 3 s.h.

Prerequisite(s): Completion of the core MSN courses with a GPA of 3.0 or higher and admission into the Family Nurse Practitioner specialization

This course focuses on the role of the APN in the primary care of the adult and older adult. Utilizing lectures, assigned readings, and case studies the advanced practice student will incorporate advance assessment skill to formulate differential diagnoses of a variety of acute and chronic conditions that inflict the adult and older adult client. Conditions discussed in this course focuses on the Skin, Head, Eyes, Ears, Nose and Throat, Heart and Lungs. Clinical judgment skills will be developed to select proper pharmacological and non-pharmacological therapies of management. Concentration of the aspects of health promotion and disease prevention will be highlighted. Clinical portion will emphasize didactic components of the course and apply them to episodic and chronic problems of the adult and older adult.

100 clinical hours

NURS 05523: Family Nurse Practitioner II: Primary Care Management of the Adult Patient and Older Adult Patient 3 s.h.

Prerequisite: NURS 05522

This course focuses on the role of the APN in the primary care of the adult and older adult. Utilizing lectures, assigned readings, and case studies the advanced practice student will incorporate advance assessment skills to formulate differential diagnoses of variety of acute and chronic conditions that inflict the adult and older adult client. Conditions discussed in this course will address the gastrointestinal, hepatobiliary, neurology, renal and urinary, and reproductive systems. Issues of Mental Health such as anxiety, depression, bipolar, eating and substance abuse will also be brought into focus. Clinical judgment skills will be developed to select proper pharmacological and non-pharmacological therapies in the management of these conditions. Concentration of the aspects of health promotion and disease prevention will be highlighted. Clinical portion will emphasize didactic components of the course and apply them to episodic and chronic problems of the adult and older adult.

NURS 05524: Family Nurse Practitioner III: Primary Care Management of the Female Patient 4 s.h.

Prerequisite: NURS 05523

The course build upon the current knowledge from primary care management of the adult and older adult I and II and extending its focus to the issue of women's health issues. Using lecture, assigned readings and case studies, the didactic component of this course will focus on episodic and chronic disease facing woman from diverse populations from menarche throughout the postmenopausal stage. Care management concepts of the pregnant client will also be introduced. Course content will also reflect prescribing practices in relation to the pharmacodynamics and pharmacokinetics that can affect pregnant and lactating women. Clinical hours will reinforce the didactic element of the class incorporating skills of assessment, differential diagnosis, and evidence base practice to provide optimal obstetrical and gynecological care of the female client.

NURS 05525: Family Nurse Practitioner IV: Primary Care Management of Children and Adolescents 4 s.h.

Prerequisite: NURS 05524

This course focuses on the primary care of the infant, child and adolescent population. Developmental and culturally competent health assessment is a key component of the course. Utilizing these skills the advanced practice student will learn thru lecture, assigned readings and case studies how to develop differential diagnoses in order to plan, implement and manage common acute and chronic health problems of the pediatric/adolescent client. Clinical hours will reinforce the didactic component of the class in addition to concentrating on evidence based practice to address the needs of this population.

Course Descriptions

NURS 05526: Family Nurse Practitioner V: Practicum in Family Practice 4 s.h.
Prerequisite: NURS 05525

This is a clinical immersion practicum that is a culmination of the learning experience for the family nurse practitioner student. Its purpose is to allow the students the opportunity to provide comprehensive health care to diverse clients across the lifespan. Successful completion will entail the ability for the student to completely demonstrate the use of theory, evidence-based practice in assessing, diagnosing, and treating clients. Students will be able to provide cost-effective and safe family based care integrating concepts of health promotion and disease prevention. Monthly meetings with assign faculty will occur within this clinically focused course to identify problems and answer relevant questions.

NURS 05527: Adv Dev, Hlth Asmt, Wellness, Hlth Promotion & Disease Prvntn of the Infant, Child, and Adolescent 3 s.h.

Prerequisite(s): Admission into Acute Care Pediatric Nurse Practitioner Specialty and 100 Clinical Hours

This course focuses on the role of the Acute Care in the health assessment, advanced development, wellness, health promotion and disease prevention of the infant, child and the adolescent. Utilizing lectures, assigned readings, laboratory experienced, clinical solutions and case studies the advanced practice pediatric student will utilize advance assessment skills to promote health and wellness in the infant, child and adolescent. This course will focus on the health assessment of infant's, children and adolescent. Disease prevention will be a focus to promote optimal health in the infant, child and adolescent. The clinical component will integrate concepts discussed in the class and apply them to the patient population in welll baby and pediatric situations.

NURS 05528: Advanced Chronic Care of the Infant, Child and Adolescent in the Health Care System 3 s.h.

Prerequisite(s): NURS 05527 and 150 Clinical Hours

This course focuses on the role of the Acute Care Pediatric Nurse Practitioner in the care of the infant child and adolescent in the health care system with chronic conditions. Chronic health conditions will be reviwed in relation to each body system. The pharmacological interventions for each condition will be explored and evaluated. Utilizing lectures, assigned readings, laboratory experiences, clinical situations and case studies the advanced practice pediatric student will implement evidenced based practice to care for the infant, child and the adolescent with chronic health care deviations. The clinical component will integrate concepts discussed in class and apply them to the patient population.

NURS 05529: Advanced Acute Care of the Infant, Child and Adolescent in the Health Care System 3 s.h.

Prerequisite(s): NURS 05528 and 150 Clinical Hours

This course focuses on the role of the Acute Care Pediatric nurse practitioner in the care of the infant, child and adolescent in the treatment of acute health care deviations. Acute health conditions will be reviewed in the relation to each body system. The pharmacological interventions for each condition will be explored and evaluated. Course content relates to the acute health care problems in infants, children and adolescent and their impact on the family. Incorporating evidenced based research, a family-centered perspective, care is provided which includes psychosocial factors, and ethical considerations. Utilizing lectures, assigned readings, laboratory experiences, clinical situations and case studies the pediatric nurse practitioner will prescribe and provide care based on outcomes. The clinical component will integrate concepts discussed in class and apply them to the patient population in well baby and pediatric situations.

NURS 05530: Advanced Clinical Care for the infant, child and adolescent in the community and medical home 4 s.h.

Prerequisite(s): NURS 05529 200 Clinical hours The student who does NOT meet the clinical requirements will receive a failing grade in this course regardless of the course work evaluation scores.

This course focuses on the care provided to the infant, child and adolescent in the community and medical home. THis course provides the Acute Care Pediatric nurse practitioner with the ability to synthesize and integrate the knowledge, skills, and attitudes important to providing care for infant, child, and adolescent and the community in which they live. The course emphasizes the importance of a holistic perspective and an understanding of the client and family as individuals with diverse spiritual and cultural needs and expectations and as a member of the community. Synthesis and analysis of previously learned concepts will provide the student with the opportunities to recognize their own feelings, needs, and issues regarding care, and issues pertaining to end of life while addressing the multicultural needs of the infant, child and adolescent while addressing health care disparities. Content includes societal, physical, psychological, ethical, and spiritual aspects of life and death. The pharmacological interventions will be explored and evaluated individually. Course content relates to the health care problems in infants, children and adolescent and their impact on the community. Incorporating evidenced based research, a family-centered perspective, care is provided which includes psychosocial factors, and ethical considerations. Utilizing lectures, assigned readings, laboratory experiences, clinical situations and case studies the Acute Care Pediatric nurse practitioner will prescribe and provide care based outcomes.

NURS 05531: FNP ACROSS THE LIFESPAN 3 s.h.

Prerequisite(s): NURS 05504 and NURS 05505 and NURS 05503 and NURS 05501 and AHI 05501 and NURS 05507 and NURS 05508 and NURS 05538 and NURS 05545 and NURS 05546 and NURS 05544

Nurse Practitioners must possess advanced knowledge and skill to deal with complex issues. This course focuses on the integration of assessment findings with differential diagnoses, appropriate diagnostics and treatments based upon evidence in practice. A special focus on health screenings, head, eyes, ears, nose and throat disorders, endocrinology, cardiac disorders, dermatology, musculoskeletal and hepatic disorders is investigated in young adults, middle aged adults, and older adults.

NURS 05532: FNP Across the Lifespan 3 s.h.

Prerequisite(s): NURS 05504 and NURS 05505 and NURS 05503 and NURS 05501 and AHI 05501 and NURS 05507 and NURS 05508 and NURS 05538 and NURS 05545 and NURS 05546 and NURS 05544

Nurse Practitioners must possess advanced knowledge and skill to deal with complex issues. This course focuses on the integration of assessment findings with differential diagnoses, appropriate diagnostics and treatments based upon evidence in practice. A special focus on health screenings, head, eyes, ears, nose and throat disorders, endocrinology, cardiac disorders, dermatology, musculoskeletal and hepatic disorders is investigated in young adults, middle aged adults, and older adults.

NURS 05533: AGACNP Adult Medicine Clinical I 3 s.h.

Prerequisite(s): NURS 05504 and NURS 05505 and NURS 05503 and NURS 05501 and AHI 05501 and NURS 05507 and NURS 05508

The focus of this course is integration of the Adult-Gerontologic Acute Care Nurse Practitioner (AGACNP) core knowledge in health promotion and diagnosis and management in the care of the mature and aging patient in the acute care setting. Emphasis is placed on the care of mature and aging patients and families with acute and chronic complex health problems. In addition, the Adult-Gerontologic Nurse Practitioner as a collaborative member of the interprofessional team will be emphasized. This course requires 200 clinical hours.

NURS 05534: Evidence Based Clinical Care for Adult Gerontologic Acute Care Nurse Practitioner I 3 s.h.

Prerequisite(s): NURS 05504 and NURS 05505 and NURS 05503 and NURS 05501 and AHI 05501 and NURS 05507 and NURS 05508 and NURS 05527 and NURS 05533

Nurse Practitioners must possess advanced knowledge and skill to deal with complex issues. This course focuses on the integration of assessment findings with differential diagnoses, appropriate diagnostics and treatments based upon evidence in practice. A special focus on cardiac, toxic exposure, sepsis, pain, oncology, fluid and electrolyte imbalances, endocrine, musculoskeletal, and gastrointestinal disorders is investigated in young adults, middle aged adults, and older adults.

NURS 05535: AGACNP ADULT MEDICIN CLINCL II 3 s.h.

Prerequisite(s): NURS 05504 and NURS 05505 and NURS 05503 and NURS 05501 and AHI 05501 and NURS 05507 and NURS 05508 and NURS 05527 and NURS 05533

The focus of this course is integration of the Adult-Gerontologic Acute Care Nurse Practitioner (AGACNP) core knowledge in health promotion and diagnosis and management in the care of the mature and aging patient in the acute care setting. Emphasis is placed on the care of mature and aging patients and families with acute and chronic complex health problems. In addition, the Adult-Gerontologic Nurse Practitioner as a collaborative member of the interprofessional team will be emphasized. This course requires 200 clinical hours.

NURS 05536: Evidence Based Clinical Care for Adult Gerontological Acute Care Nurse Practitioner II 3 s.h.

Prerequisite(s): NURS 05504 and NURS 05505 and NURS 05503 and NURS 05501 and AHI 05501 and NURS 05507 and NURS 05508 and NURS 05527 and NURS 05533 and NURS 05534 and NURS 05535

Nurse Practitioners must possess advanced knowledge and skill to deal with complex issues. This course focuses on the integration of assessment findings with differential diagnoses, appropriate diagnostics and treatments based upon evidence in practice. A special focus on complex disease from the head to toe with critical illness is represented. These life threatening disorders are investigated in young adults, middle aged adults and older adults.

NURS 05537: AGACNP Adult Medicine Clinical III 3 s.h.

Prerequisite(s): NURS 05504 and NURS 05505 and NURS 05503 and NURS 05501 and AHI 05501 and NURS 05507 and NURS 05508 and NURS 05516 and NURS 05517 and NURS 05527 and NURS 05533 and NURS 05534 and NURS 05535

This course develops clinical competency and emphasizes the integration of theory, assessment and advanced therapeutics for young adults, and adults and older adults in a high acuity setting. Students will perform comprehensive clinical assessments including appropriate diagnostic and therapeutic testing. Management of acute and chronic health problems will be under the direction of clinical preceptors. Clinical placements will include a variety of acute/critical care areas including but not limited to: emergency department, medical/surgical intensive care units, intermediate care and specialty services such as transplant and oncology. Gerontology experiences will be provided in long term care, rehabilitation facilities and the acute care setting. In addition, this course emphasizes collaborative partnership development between patients,

their families, and inter-professional teams. This course requires 200 clinical hours.

NURS 05538: Adult Acute and Chronic Disease Management 3 s.h.
Prerequisite(s): NURS 05504 and NURS 05505 and NURS 05503 and NURS 05501 and AHI 05501 and NURS 05508

Nurse Practitioners must possess advanced knowledge and skill to deal with complex issues. This course focuses on the integration of assessment findings with differential diagnoses, appropriate diagnostics and treatments based upon evidence in practice. Conditions discussed in this course include mental illness, neurologic, renal, pulmonary, vascular, endocrine, and gastrointestinal disorders in young adults, middle aged adults, and older adults.

NURS 05539: Screening of Women throughout the Lifespan & Health Promotion: Genetics, 1 s.h.
 Diagnostics & Interventions

Prerequisite(s): Completion of the core MSN courses with a GPA of 3.0 or higher and admission into the Women's Health Nurse Practitioner specialization. (50 Clinical hours) The student who does NOT meet the clinical requirements will receive a failing grade in this course regardless of the course work evaluation scores.

This course focuses on the role of Women's Health Nurse Practitioner in the health assessment, advanced development wellness, health promotion and disease prevention of the female patient throughout the lifespan in health, pregnancy, post-partum, and acute/chronic illness. Utilizing lectures, assigned readings, laboratory experiences, clinical practicum and case studies the advanced practice will utilize advance assessment skills to promote health and wellness of the female across the lifespan. The clinical component will integrate and apply concepts to the female patient population. Through active clinical learning the student will apply newly acquired knowledge.

NURS 05540: Primary Care for the Women's Health Nurse 3 s.h.

Prerequisite(s): NURS 05539 100 Clinical hours The student who does NOT meet the clinical requirements wil receive a failing grade in this course regardless of the course work evaluation scores.

The course builds upon the current knowledge from screening of women throughout the lifespan and health promotion. Students perform comprehensive assessment of the female client to determine normal, benign variants and disease processes. Based upon assessment plans are formulated and prioritized by differential diagnosis. The student applies knowledge in the clinical setting and demonstrates the ability to deliver effective primary care to females. This care is evidenced based, culturally sensitive, and includes health promotion and disease management.

NURS 05541: Evidence Based Practice for Women's Health and Gynecological Issues Across the 4 s.h.
 Lifespan

Prerequisite(s): NURS 05540 200 Clinical hours The student who does NOT meet the clinical requirement will receive a failing grade in this course regardless of the course work evaluation scores.

This course focuses on the role of the Women's Health Nurse Practitioner in providing evidence based care to women experiencing gynecological issues across the lifespan. Utilizing lectures, assigned readings, laboratory experiences, clinical practicum and case studies the advanced practice student will utilize advance assessment skills to promote health and wellness of the female across the lifespan. This course will focus on the health assessment of the female across the lifespan. The clinical component will integrate and apply concepts to the female patient population. Through active clinical learning the student will apply newly acquired knowledge.

NURS 05542: Evidence Based Practice for Women's Health/Obstetrics: The Pregnant Woman, 6 s.h.
 Fetus, Neonate and Family

Prerequisite(s): NURS 05541 200 Clinical hours The student who does NOT meet the clinical requirements will receive a failing grade in this course regardless of the course work evaluation scores.

This course focuses on the role of the Women's Health Nurse Practitioner in providing evidence based care to women experiencing pregnancy. Utilizing lectures, assigned readings, laboratory experiences, clinical practicum and case studies that advanced practice student will utilize advance assessment skills to promote health and wellness of the pregnant female. The clinical component will integrate and apply concepts to the female patient population. Through active clinical learning the student will apply newly acquired knowledge.

NURS 05543: Evidence Based Practice Clinical Course 2 s.h.

Prerequisite(s): NURS 05503 and NURS 05510 40 Clinical hours and Clinical project

Evidence-based practice in illness and disease management is a requirement for quality care delivery. This course supports the student through the development, implementation, and evaluation of an evidence-based practice project in the clinical setting. This course requires successful completion of 40 clinical hours and a clinical project.

NURS 05544: FNP Women's Health/Pediatrics Clinical 3 s.h.

Prerequisite(s): NURS 05504 and NURS 05505 and NURS 05503 and NURS 05501 and AHI 05501 and NURS 05507 and NURS 05508 and NURS 05538 and NURS 05545

The focus of this course is integration of the Family Nurse Practitioner's (FNP) core knowledge in health promotion and diagnosis and management in the care of the female and pediatric patient in the primary healthcare setting. Emphasis is placed on the care of female and pediatric patients with acute and chronic complex health problems. In addition, the family nurse practitioner as a collaborative member of the interprofessional team will be emphasized. This course requires 200

clinical hours.

NURS 05545: FNP Clinical I 3 s.h.
Prerequisite(s): NURS 05504 and NURS 05505 and NURS 05503 and NURS 05501 and AHI 05501 and NURS 05507 and NURS 05508

The focus of this course is integration of the Family Nurse Practitioner's (FNP) core knowledge in health promotion and diagnosis and management in the care of the mature and aging patient and families in the primary healthcare setting. Emphasis is placed on the care of a mature and aging patients and families with acute and chronic complex health problems. In addition, the family nurse practitioner as a collaborative member of the interprofessional team will be emphasized. This course requires 200 clinical hours.

NURS 05546: Women's Health and Pediatrics 3 s.h.
Prerequisite(s): NURS 05504 and NURS 05505 and NURS 05503 and NURS 05501 and AHI 05501 and NURS 05507 and NURS 05508 and NURS 05538 and NURS 05545

Nurse Practitioners must possess advanced knowledge and skill to deal with complex issues. This course focuses on the integration of assessment findings with differential diagnoses, appropriate diagnostics and treatments based upon evidence in practice. A special focus on the female and pediatric patient.

NURS 05547: FNP Clinical II 3 s.h.
Prerequisite(s): NURS 05504 and NURS 05505 and NURS 05503 and NURS 05501 and AHI 05501 and NURS 05507 and NURS 05508 and NURS 05538 and NURS 05545 and NURS 05546 and NURS 05544

The focus of this course is integration of the Family Nurse Practitioner's (FNP) core knowledge in health promotion and diagnosis and management in the care of the mature and aging patient and families in the primary healthcare setting. Emphasis is placed on the care of mature and aging patients and families with acute and chronic complex health problems. In addition, the family nurse practitioner as a collaborative member of the interprofessional team will be emphasized. This course requires 200 clinical hours.

NURS 05551: Theoretical Foundations of Psychotherapy Across the Lifespan 3 s.h.
Prerequisites: Completion of an accredited Master of Science in Nursing (MSN) program or both NURS 05504 and NURS 05505

This course is designed to provide a theoretical foundation to working with high risk individuals, families, and groups across the lifespan. Students retrieve and analyze the best available evidence to guide the development, implementation, and evaluation of individual, group, and family therapy. This course is designed to synthesize advanced practice psychiatric mental health knowledge related to cultural, legal, ethical and moral issues across the lifespan.

NURS 05552: Biopsychosocial Assessment & Differential Diagnosis 3 s.h.
Prerequisite(s): Completion of an Accredited Master of Science in Nursing (MSN) or NURS 05504

This course will examine the advanced concepts of assessment, psychopathology, and differential diagnosis in advanced practice psychiatric-mental health nursing. The Diagnostic and Statistical Manual (5th edition) will be utilized to formulate diagnoses and treatment formulations for psychiatric patients across the lifespan. The course will review the components and use of the comprehensive psychiatric evaluation as means to gather clinical data and information during a psychiatric interview. Various theoretical perspectives about the etiology of common psychiatric disorders will be reviewed. Factors related to epidemiology, genetics, gender, cultural, and ethnicity of psychiatric disorders across the lifespan will be analyzed. A strong emphasis is placed on proper assessment and identification of discrete aspects of cognition, affect and behavior in the diagnosis and treatment planning of psychiatric illness.

NURS 05553: Principles of Psychopharmacology Across the Lifespan 3 s.h.
Prerequisite(s): Completion of an Accredited Master of Science (MSN) Program or (NURS 05504 and NURS 05505)

This course introduces students to the effects and mechanisms of action of psychoactive drugs. Drugs used in the treatment of psychopathological disorders and drugs of abuse are analyzed. Implications for drug administration are discussed across the lifespan.

NURS 05554: Behavior Theory I: Care of the Adult and the Older Adult and Family 3 s.h.
Prerequisites: NURS 05553 and NURS 05552 and NURS 05551 or (NURS 05500 AND NURS 05501 NURS 05503 and NURS 05504 and NURS 05505 and NURS 05507 and NURS 05508 and NURS 05551 and NURS 05552 and NURS 05553)

This course will focus on synthesized advanced practice knowledge relevant to the multidimensional assessment and interventions processes of the adult and older adult and their family. The examination of theoretical models, evidenced based practice and research findings pertinent to neuroscience, psychopharmacology and psychotherapeutic/psychosocial interventions is evaluated for best evidence-based practices. Students will examine clinical therapeutics, life style modification and complementary therapies as part of their clinical decision making. Knowledge needed for mental health assessment, differential diagnosis, and interventions with culturally diverse individuals is addressed. Diverse psychiatric settings and their patient population dynamics, including presenting psychiatric and medical symptoms and interventions, will be analyzed as part of the advanced practice role.

NURS 05555: Behavior Clinical Practicum I: Care of the Adult and the Older Adult and Family 3 s.h.

Prerequisites: NURS 05553 and NURS 05552 and NURS 05551 or (NURS 05500 and NURS 05501 and NURS 05503 and NURS 05504 and NURS 05505 and NURS 05507 and NURS 05508 and NURS 05551 and NURS 05552 and NURS 05553)

This course will provide the student with an opportunity to evaluate and apply evidenced-based approaches of health promotion, diagnosis and management of psychiatric illness. Theoretical based treatment strategies based on evidence-based research will be analyzed and applied to clinical case studies. Theoretical models and research findings pertinent to neuroscience, psychopharmacology and Psychotherapy will be examined regarding care of adults and older adults and their families. Interventions for the care of adults and older adults and their family will be evaluated. A review of evidence-based knowledge needed for assessing, diagnosing, and treatment planning among adults and older adults and their family systems from culturally diverse backgrounds are addressed. Implications of ethical, legal issues, and health policy relative to advanced practice psychiatric nursing in the care and treatment of adults and older adults will be reviewed. Clinical supervision is a component of this course and requires a minimum of 2 hours per week. This course has intensive supervision with instructor and student on a 1:1 basis to review therapeutic modalities in the clinical setting on a weekly basis. This intensive supervision is required in psychiatric and mental health practicums due to the vulnerability of the population.

NURS 05556: Behavior Theory II: Care of the Adult and the Older Adult and Family 3 s.h.

Prerequisite: NURS 05554

This course will focus on the multidimensional biopsychosocial management of adults and older adults within the framework of the family. The examination of theoretical models and evidenced-based research findings pertinent to neuroscience, psychopharmacology and psychotherapeutic/psychosocial interventions of adults and their families is evaluated for best evidence-based practices. Students will examine the adult and aging process as it relates to symptom development and treatment strategies. Crisis theory, psychological trauma, personality disorders, dementia, and substance use assessment and treatment will be highlighted across the adult and aging process. Legal and ethical implications of treatment for adults and the older adult will be incorporated in the advanced practice role.

NURS 05557: Behavior Clinical Practicum II: Care of the Adult and the Older Adult and Family 3 s.h.

Prerequisite: NURS 05555

This practicum is designed to synthesize advanced practice knowledge relevant to persons with psychiatric illness and their families. Treatment models and evidenced-based research findings related to the interventions through the adult life span will be considered in the clinical settings. Acute and chronic mental health changes will be evaluated relative to crisis and grief, anxiety, personality, sleep, addictions, sexual disorders, psychological trauma, dementias and co-occurring medical issues. Endocrine, metabolic, and toxic states are explored in the formulation of differential diagnosis and implications for advanced practice. Clinical practicums will focus on the incorporation of advanced skills related to conducting psychiatric evaluations; determining differential diagnoses; developing clinical case formulations and treatment plans; delivering evidenced-based supportive, brief, and short-term individual, group and family psychotherapy; identifying and evaluating psychopharmacological agents; and implementing outcome measures with adults and older adults and their families. Clinical supervision is a minimum of 2 hours weekly and a required component of this course. This course has intensive supervision with instructor and student on a 1:1 basis to review therapeutic modalities in the clinical setting on a weekly basis. This intensive supervision is required in psychiatric and mental health practicums due to the vulnerability of the population.

NURS 05558: Behavior Theory III: Care of the Child and Adolescent and Family 3 s.h.

Prerequisite: NURS 05556

This course will provide the student with an opportunity to evaluate and apply evidenced-based approaches for health promotion, diagnosis and management of psychiatric illness in the care of children and adolescents and their families. Theoretically based treatment strategies based on evidenced based research will be analyzed and applied to clinical case studies. Theoretical models and research findings pertinent to neuroscience, psychopharmacology and psychotherapeutic/psychosocial interventions of children and adolescents and their family will be evaluated. A review of evidence-based knowledge needed for assessing, diagnosing, and treatment planning among children, adolescents and their family systems from culturally diverse backgrounds is addressed. Implications of ethical, legal issues, and health policy relative advanced practice psychiatric nursing in the care and treatment of children and adolescent will be reviewed.

NURS 05559: Behavior Clinical Practicum III: Care of the Child and Adolescent and Family 3 s.h.

Prerequisite: NURS 05557

This practicum is designed to synthesize advanced practice knowledge relevant to children and adolescents and their families with psychiatric illness. Treatment models and evidence-based research findings related to the primary, secondary and tertiary care through the childhood life span will be considered in the clinical settings. Acute and chronic mental health changes will be evaluated relative to growth and development, neurodevelopmental disorders, psychotic, mood and anxiety problems, elimination, feeding and eating problems, sleep, gender, disruptive problem, addictions, psychological trauma, and co-occurring medical issues. Endocrine, metabolic, and toxic states are explored in the formulation of differential diagnosis and implications for advanced practice. Clinical practicums will focus on the incorporation of advanced skills related to conducting psychiatric evaluations; determining differential diagnoses; developing clinical case formulations and treatment plans; delivering evidenced- based supportive, brief, and short-term individual, group and family psychotherapy; identifying and evaluating psychopharmacological agents; and implementing outcome measures with children and

adolescents and their families. Legal and ethical issues related to treatment will be applied in the clinical settings. Clinical supervision is a component of this course and requires a minimum of 2 hour per week. This course has intensive supervision with instructor and student on a 1:1 biases to review therapeutic modalities in the clinical setting on a weekly biases. This intensive supervision is required in psychiatric and mental health practicums due to the vulnerability of the population.

PHIL 09110: The Logic Of Everyday Reasoning 3 s.h.

This course in informal logic aims at improving the student's reasoning through a thorough exposure to common logical fallacies as these appear in ordinary language, and through a study of rational procedures for problem-solving. Students have opportunities for extensive practice at discovering and overcoming their own logical faults in writing and speech as well as practice at rational problem-solving.

PHIL 09120: Introduction To Philosophy 3 s.h.

This basic course in the methods of philosophical inquiry investigates how these methods have been applied to selected philosophical issues by classical and contemporary philosophers.

PHIL 09130: Introduction to Symbolic Logic 3 s.h.

This course provides students with a working familiarity with the principles and procedures involved in deductive logic.

PHIL 09150: Introduction to Ethics 3 s.h.

This historically structured course emphasizes both the natural of moral problems and the variety and adequacy of selected moral theories. The course involves reflection and analysis of classic and contemporary theories and thinkers. This course carries a mutual exclusion with the following courses; you may not enroll in it if you have completed any of the following with a passing grade: PHIL 09151

PHIL 09241: Social and Political Philosophy - Writing Intensive 3 s.h.

Prerequisite: COMP 01112

This is an introduction to the broad themes of political philosophy and social theory; How human life is and should be organized into societies; the nature of political systems and different forms of government; the relationship between the individual and the state; the nature of justice; the influence of economy on society; how human nature influences social nature; and the meanings of freedom, equality, and democracy. Meets Rowan Core writing intensive guidelines with a variety of graded and ungraded writing assignments and papers.

PHIL 09310: Aesthetics 3 s.h.

Prerequisite: at least one PHIL 09 course, or more than one Arts course (ART, ARHS, MUS, MUSG, THD, RTF).

This course offers students an approach to such philosophical issues as the nature; the role of the arts in human culture; and the articulation of criteria for interpretation and criticism. Students will refine their own approach to these issues by attending to specific works of poetry, fiction, drama, music, painting, sculpture, and other arts, including student works.

PHIL 09325: American Philosophy 3 s.h.

This course examines the thought of selected American philosophers from the colonial period to the present. It stresses the distinctive American philosophical movement, Pragmatism, and some of its representative figures such as Charles Sanders Peirce, William James and John Dewey.

PHIL 09328: Philosophy And Gender 3 s.h.

This course will explore philosophical issues relating to gender as considered by classical, modern and contemporary philosophers. Recent work by feminist philosophers will be emphasized.

PHIL 09370: Epistemology 3 s.h.

Prerequisite: At least one course in PHIL or PHRE

This course addresses philosophical questions concerning the nature of knowledge. Some of these questions include: How can we be sure that our knowledge of the world is accurate? What is the relation of evidence to our understanding of the world? What distinguishes mathematical knowledge from scientific and ethical knowledge? Students will study and criticize both traditional and contemporary approaches to the understanding of knowledge. Students will also develop and refine their own views in response to these issues.

PHRE 11490: Senior Seminar In Philosophy And Religion 3 s.h.

Prerequisite(s): Four (4) completed courses in PHIL, REL, or PHRE

This capstone course for the Philosophy and Religion major engages students in advanced level work in the disciplines of philosophy and religion studies, by focusing on a particular topic of the instructor's choice. Students complete individual projects. Required for Philosophy and Religion majors.

Course Descriptions

REL 10100:	World Religions This course surveys the major world religions in both the Eastern and Western traditions.	3 s.h.
REL 10210:	Religion In America This course explores the wide variety of religious movements that have existed and continue to exist in America. Both traditional religions and cults are considered within the context of American culture.	3 s.h.
ASTR 11520:	Selected Topics in Space Science	3 s.h.
ASTR 17520:	Selected Topics In Earth And Space Science A three-part course: (A) the importance of astronomy to society, (B) the climates of the Earth and the factors controlling them, (C) forces operating within and upon the surface of Earth. This course may not be offered annually.	3 s.h.
PHSC 01532:	PHYS SCI ACTIV FOR TEACHERS	3 s.h.
PHYS 00150:	Physics Of Everyday Life (Lecture and Lab) The goal of this course is to expose students with a non-science background to physics. The students will experience the excitement of physics by examining phenomena of our everyday environment. The historical development of such ideas will be studied as well. Topics selected for study include Mechanics, Matter, Heat, Sound, Light, Electricity, Magnetism, Atomic and Nuclear Physics. Physics will be communicated in a conceptual framework along with straightforward algebraic and trigonometric formulations.	4 s.h.
PHYS 00210:	Physics I Without Calculus (Lecture and Lab) <i>Prerequisites: Score of at least 60 on CLM OR MATH 01122 OR MATH 01130 with concurrent registration allowed OR MATH 01140 with concurrent registration allowed</i> This course studies the principles of mechanics, heat, and fluids. Calculus is not used. The course emphasizes problem work involving the use of Algebra, Trigonometry, and Geometry.	4 s.h.
PHYS 00211:	Physics II Without Calculus (Lecture and Lab) <i>Prerequisite: PHYS 00210 or PHYS 00220</i> This course studies the basic principles of electricity, magnetism, and light. Calculus is not used. The course emphasizes problem work involving the use of Algebra, Trigonometry, and Geometry.	4 s.h.
PHYS 00220:	Introductory Mechanics (Lecture and Lab) <i>Co/Prerequisite: MATH 01130 or Math 01140</i> This course studies the basic principles of mechanics and is equivalent to most calculus based introductory mechanics courses often entitled Physics I. The course is designed to cover introductory mechanics. (Newton's laws, energy and momentum conservation, rotating systems, statics, gravity and simple harmonic motion) at a level appropriate for future scientists and engineers. The course includes a laboratory component and it emphasizes problem-solving techniques.	4 s.h.
PHYS 00221:	Introductory Thermodynamics, Fluids, Waves, & Optics (Lecture and Lab) <i>Prerequisite: PHYS 00220 Corequisite: MATH 01131 or MATH 01141</i> This introductory course studies the basic principles of thermodynamics, fluids, waves, and optics and their application. The concepts will be applied through problem solving and laboratory experiences. A large portion of the content of this course builds from the concept of conservation of energy covered in the introductory mechanics course. The course is required for any physical science and physics majors and recommended for those majoring in biochemistry, chemistry, biology, engineering, or mathematics. The specific topics covered include elastic properties of materials, fluid mechanics, mechanical waves, sound, conduction of heat, kinetic theory of gasses, the laws of thermodynamics, light, geometric optics, interference and diffraction.	4 s.h.
PHYS 00222:	Introductory Electricity & Magnetism (Lecture and Lab) <i>Prerequisite: PHYS 00220 Corequisite: MATH 01131 or MATH 01141</i> This course studies the basic principles of electricity and magnetism and is equivalent to most calculus based introductory electricity and magnetism courses often entitled Physics II. The course is designed to cover introductory electricity and magnetism (charge, current, potential, fields, AC and DC circuits, Maxwell's Equations, and electromagnetic waves) at a level appropriate for future scientists and engineers. The course includes a laboratory component and it emphasizes problem-solving techniques.	4 s.h.

Course Descriptions

- PHYS 00300: Modern Physics (Lecture and Lab) 4 s.h.
Prerequisites: (MATH 01131 or MATH 01141) AND (PHYS 00211 or PHYS 00222)
This course covers modern physics developed since the turn of the 20th century. After a review of some classical physics, course topics include special relativity, wave and particle aspects of radiation, matter waves, models of the atom, ionization, spectra, x-rays, and introductory quantum theory. It also covers theories developed by Planck, Einstein, Rutherford, Bragg, Bohr, Compton, de Broglie, Pauli, Schrodinger and Heisenberg.
- PHYS 00310: Analytical Mechanics 4 s.h.
Prerequisites: PHYS 00300 AND MATH 01230
This course teaches students Newtonian, Lagrangian and Hamiltonian formulations of mechanics, and their applications to such problems as Central Force Motion, Linear and Nonlinear Oscillations, Collisions between particles, Noninertial Systems, Coupled Oscillations and Normal Coordinates, and Rigid Bodies.
- PHYS 00320: ELECTRICITY & MAGNETISM I 4 s.h.
Prerequisites: PHYS 00300 AND MATH 01230
This course studies classical electromagnetism. Its topics include: the laws of electromagnetic force, Maxwell's equations, electromagnetic induction, interaction of currents, and electromagnetic energy and waves.
- PHYS 00330: Mathematical Methods for Physics 3 s.h.
Prerequisite: MATH 01230 Corequisite: PHYS 00300
This course studies mathematical topics as they apply to physics: complex numbers, determinants and matrices, Fourier series, ordinary and partial differentiation. Certain more advanced topics may be treated: calculus of variations, gamma and beta functions, coordinate transformations, tensor analysis, functions of complex variable, Legendre polynomials and Bessel functions. The course will include computational as well as analytical methods.
- PHYS 00340: Optics And Light (Lecture and Lab) 4 s.h.
Prerequisite: PHYS 00300
This course studies the nature and propagation of light, dispersion, reflection and refraction at plane and spherical surfaces, lenses (thin and thick), aberrations of lenses and mirrors, optical instruments, polarization, diffraction and photometry. It also discusses modern developments and techniques (such as fiber optics, lasers, holography).
- PHYS 00360: Molecular Biophysics 4 s.h.
Prerequisites: PHYS 00300 OR MCB 01102
This course is aimed at understanding the physics of biological systems. The goal of the course is to quantitatively define biological systems and their functions. Key emphasis will be placed on (1) understanding theories, laws, and axioms that govern systems and their behavior and (2) the use of physics to determine quantitative information about systems and their behaviors. For each topic, the basic laws of physics will be reviewed followed by their application to specific biomolecular and biological system examples. the laboratory component is aimed at giving students hands-on experience in measurement and observation for biological systems.
- PHYS 00410: Quantum Mechanics I 4 s.h.
Prerequisites: PHYS 00300 AND MATH 01230
This course will serve as an introduction to quantum mechanics. Students will learn the basic concepts of quantum mechanics and how to solve simple problems using quantum mechanics. Topics selected for study include the origins of quantum mechanics, the free particle in wave mechanics, particles in one-dimensional potentials, the axiomatic formulation of quantum physics, particles in three-dimensions, spin and the Pauli exclusion principle.
- PHYS 00430: Statistical Physics 3 s.h.
Prerequisite: PHYS 00300
The student will study in detail the laws of thermodynamics. The statistical derivation of these laws will be presented. Topics include: ideal gases, classical and quantum distribution functions, phase transitions, and other special topics.
- PHYS 02527: Statistical Mechanics 3 s.h.
The student will consider the laws of thermo dynamics from a statistical point of view. Topics may include: ideal gases, simple thermodynamic systems, classical and quantum distribution functions, phase transitions, and other special topics. The requirements for this course include a graduate laboratory project and/or research paper. Admission to the course will be at the discretion of the graduate advisor.

Course Descriptions

PHYS 02528: Electricity And Magnetism I 4 s.h.

This course studies static fields and charges and the application of vector calculus to electricity and magnetism. Maxwell's equations are derived from basic electrostatic phenomena. Some of the immediate consequences of Maxwell's equations, such as electromagnetic waves, will also be covered. The requirements of this course include a graduate research paper or a laboratory project. Admission to the course will be at the discretion of the graduate advisor.

PHYS 02529: Electricity And Magnetism II 3 s.h.

In this course, some of the major consequences of Maxwell's equations, such as the generation and propagation of electromagnetic waves, scattering, and special relativity will be explored. A special attention will be given to the connection of electricity and magnetism with relativity. The requirements of this course include a graduate laboratory project or research paper. Admission to the course will be at the discretion of the graduate advisor.

PHYS 02530: Applied Physics Lab 4 s.h.

This course introduces modern experimental techniques commonly used in physics. Projects consist of original experimental research experiences in Solid State Physics, Laser Physics, and/or other experimental areas of current research in the department. Experimental results are correlated with existing theories. Technical writing and presentation skills are developed and evaluated.

PHYS 02541: Quantum Mechanics I 4 s.h.

This course will serve as an introduction to quantum mechanics. Students will learn the basic concepts of quantum mechanics and how to solve simple problems using quantum mechanics. Topics selected for study include the origins of quantum mechanics, the free particle in wave mechanics, particles in one-dimensional potentials, the axiomatic formulation of quantum physics, particles in three-dimensions, spin and the Pauli exclusion principle. The requirements of this course include a graduate research paper or a laboratory project.

PHYS 02542: Quantum Mechanics II 3 s.h.

This course is a continuation of Quantum Mechanics I. Students will learn more advanced concepts and problems in quantum mechanics. Topics selected for study include the formalism of quantum mechanics, particles in three-dimensions, spin and angular momentum, quantum statistical mechanics, time-independent perturbation theory, time-dependent perturbation theory, and scattering. Some topics may overlap with the ones in Quantum Mechanics I, but are taught at a higher level. The requirements of this course include a graduate research paper or a laboratory project.

PHYS 02555: Mechanics 4 s.h.

Emphasizes Newton's laws of motion, the conservation laws, kinetics and reactions, calculation of moments of inertia, periodic motion and heat. Theories and principles will be related to the motion and properties of gross bodies, and the relevance of these ideas to modern atomic physics will be pointed out. The requirements of this course include a graduate laboratory project and/or research paper. Admission to the course will be at the discretion of the graduate advisor. This course may not be offered annually.

PHYS 02599: INDEP STUDY PHYS SCI 3 s.h.

ECON 04101: An Introduction To Economics-A Macroeconomic Perspective 3 s.h.

This course analyzes the overall level of economic activity in the United States and examines its major determinants, public stabilization policies, economic growth and international trade.

ECON 04102: An Introduction To Economics-A Microeconomic Perspective 3 s.h.

This course analyzes resource allocation among alternative uses. It studies consumer demand, product and factor price determination, general equilibrium and optimal income distribution.

ECON 07520: Colloquium in Economics 3 s.h.

This course introduces students to in-depth analysis of a selected theme in Economics, including economic theories, models, and method as well as intensive research, data analysis, problem solving, and class discussion. Selected topics include Economic Development, Environmental Economics, Global Economics, Health Economics, Labor Economics, Public Finance, Money & Banking, and Urban Economics.

EDPA 02320: Public Administration 3 s.h.

Students consider public administration principles and organizations, internal governmental administrative structures, the interactions between organizations and their environments, personnel and policy procedures, administrative communication methods, and other management techniques. This course may not be offered annually.

Course Descriptions

- EDPA 02410: Public Policy 3 s.h.
Students analyze U.S. public policy using a variety of conceptual models including cost-benefit analysis. Case studies are emphasized. This course may not be offered annually.
- EDPA 02490: Public Service Internship 3 to 12 s.h.
Prerequisites: EDPA 02320 or POSC 07300 or POSC 07303
Students are provided with an opportunity to get first-hand experience in government administration and related political processes through work in a variety of public settings (government agencies, public officials' offices, law firms, etc.).
- EDPA 02510: Introduction to Policy Analysis 3 s.h.
This course explores various aspects of the policy process. Students analyze U.S. public policy using a variety of conceptual models, including cost-benefit analysis, with an emphasis on case studies.
- POSC 07100: Introduction To Government And Politics 3 s.h.
Professors who teach this course will normally focus on some, but not all, of the following topics: political and governmental structures, functions, and processes; political behavior; public law and public policy; and political values or philosophies.
- POSC 07110: American Government 3 s.h.
This course focuses on the American Federal government, emphasizing the structure, operation and processes of our political system. Coverage will include political values as they are reflected in major public policies.
- POSC 07230: Comparative Political Systems 3 s.h.
This course presents a comparative analysis of the fundamental law, political institutions, policies and processes and their relationship to political culture in Britain, France, the C.I.S. and a selected Third World country.
- POSC 07321: Contemporary World Problems 3 s.h.
This course examines selected problems such as terrorism, world population and hunger, regional conflicts and arms control and disarmament.
- POSC 07360: Methodology And Statistics In Political Science Research 3 s.h.
This course considers the varied ways that political scientists study problems, with primary attention to scientific method and quantitative skills. Students are expected to become adept at using and interpreting forms of descriptive statistics commonly used in the social sciences.
- POSC 07520: CIVIL RIGHTS/LIBERTIES 3 s.h.
- POSC 07521: Colloquium in Public Policy 3 s.h.
This course explores various aspects of the policy process. Students analyze U.S. public policy using a variety of conceptual models, including cost-benefit analysis, with an emphasis on case studies.
- POSC 07530: Colloquium in Political Science 3 s.h.
This course explores various ways in which the executive, legislative, and judicial branches influence the policy process in the United States, as well as introducing students to elements of the political system - its bureaucracy, foreign policy establishment, parties and interest groups - that also inform public policy.
- CMS 05381: PSYCHOLINGUISTICS 3 s.h.
- PSY 01107: Essentials Of Psychology 3 s.h.
Students will be introduced to psychology, the scientific study of behavior. This course will highlight the key areas in psychology that help to explain human behavior. This course will include discussion of diverse topics such as, perception, learning, thinking, memory, motivation, emotion, stress, and health, personality, physiological processes, psychological disorders and treatment, development, intelligence, and social psychology.
- PSY 01108: Essentials of Psychology for Pre-Health Students 3 s.h.
This specific Essentials of Psychology course is designed for students planning to attend medical school and take the MCAT, which includes a new section on Psychology. This class will prepare students to take that section of the MCAT. Students will be introduced to psychology, the scientific study of behavior. This course will highlight the key areas in psychology that help to explain human behavior. This course will include discussion of diverse topics such as perception, learning, thinking, memory, motivation, emotion, stress, and health, personality, physiological processes, psychological disorders and treatment, development, intelligence, and social psychology.

Course Descriptions

- PSY 01199: Navigating Psychology 1 s.h.
Prerequisite: B.A. in Psychology or B.S. in Psychological Science as declared major
This course provides students with information and guidance regarding their future education in Psychology. This introductory class gives incoming Psychology students resources that they will need to guide their coursework, professional development, and research/employment to further their psychological education and future careers. This course will prepare students to make decisions that will tailor their Psychology program to their interests and goals. During this course, assessments are also taken as a part of larger program assessment.
- PSY 01230: Psychology Of Personality 3 s.h.
Prerequisite: PSY 01107
Students study major theories of personality and techniques for measuring personality. Personality is that field of psychology that investigates the predispositions or inherited characteristics and the acquired or learned qualities that affect an individual.
- PSY 01316: Behavioral Assessment And Measurement 3 s.h.
Prerequisite: PSY 02310
This course provides students with the knowledge and skills needed to conduct behavioral assessments and choose appropriate target outcomes and intervention strategies. Additionally, students will learn to objectively measure behavior, display data graphically, and experimentally evaluate the effectiveness of behavioral interventions. This course is one of the courses required for the Specialization in Behavioral Services for Children and Their Families in the psychology department.
- PSY 01326: Perception 3 s.h.
Prerequisite: PSY 01107
This course involves the study of sensation and perception. Topics include the scientific study of sensory systems, classical and contemporary psychophysical methods, principles of perceptual organization, aftereffects, illusions and space perception.
- PSY 01327: Cognitive Psychology 3 s.h.
Prerequisite: PSY 01107
This course involves the study of information processing. Its topics may include the history and methods of cognitive psychology, selection and processing of sensory information, pattern recognition, memory processes, language acquisition and cognition.
- PSY 01424: Professional Issues In Applied Behavior Analysis 3 s.h.
Prerequisites: PSY 02305 (Concurrency Allowed) AND PSY 02310 AND PSY 02320 AND PSY 02325
This course is a capstone course in Specialization for Behavioral Services for Children and their Families, providing an in-depth overview of innovative and empirically validated behavior assessment and intervention techniques aimed at promoting system-wide change. Students will be exposed to professional development as behavior analysts including ethical issues, career options and responsibilities, and development of clinical skills.
- PSY 01425: Fieldwork in Applied Behavior Analysis 3 s.h.
Prerequisites: PSY 02305 AND PSY 02320 AND PSY 02325
Students should be matriculated in the Specialization for Behavioral Services for Children & Families OR the Post-Baccalaureate in ABA to enroll in this course due to limited enrollment. Students are assigned placements in applied settings under the supervision of a Board Certified Behavior Analyst (BCBA) to gain experience in the design and implementation of behavioral interventions. Students are required to complete 150 hours of supervised fieldwork in their assigned placements.
- PSY 01499: Psychology Senior Capstone 1 s.h.
Prerequisite: Students must have at least 110 completed credits
This course provides students with information and guidance regarding their future careers in Psychology and the resources they will need to further their education and possible careers. During this course, assessments are also taken as a part of larger program assessment.
- PSY 01500: Professional Skills for Behavior Analysts 3 s.h.
Prerequisites: Matriculation into the MA in ABA.
This course introduces students to the professional standards of the field of applied behavior analysis. This course emphasizes essential skills and strategies that students need to be successful professional behavior analysts. Topics include vital work habits, interpersonal relationships, business skills, applying behavioral knowledge, consulting repertoires, introduction to professional and scientific writing, and professional service. This course is the first course to be taken in the MA in the ABA program and will be offered annually.

Course Descriptions

PSY 01501: IND STUDY PSYCH 3 to 6 s.h.

PSY 01510: Philosophy, History, and Conceptual Foundations of Behavior Analysis 3 s.h.
Prerequisite: Matriculation in the Master of Arts in Applied Behavior Analysis.

The course provides an in-depth examination of the philosophical and conceptual underpinnings of behavior analytic theory. Students will evaluate how behavior analysis as a conceptual system fits in the larger historical and conceptual contexts of philosophy, science, and psychology. Applications to behavior analytic problem solving and case conceptualization in applied setting will be emphasized.

PSY 01550: Clinical Research Practicum 3 s.h.
Prerequisites: PSY 01.500 AND PSY 01.510

This graduate level course will provide students with the pre-requisite skills needed to develop an independently executed research project evaluating applied behavior analytic techniques for changing behavior. In this course, students will meet with a Faculty Advisor regularly to read and review current literature to gain an appreciation and critical understanding of research in the area of Applied Behavior Analysis. Students will also work with more senior students to get experience with recruiting participants, executing a study protocol, collecting and coding data, and analyzing and interpreting data. Finally, students will lead discussions and review literature relevant to their own independent research project.

PSY 01564: Counseling Theory And Techniques I 3 s.h.
Prerequisite: Matriculation in the Master's Program in Clinical Mental Health Counseling

This course is designed to be an overview of several major theoretical approaches to psychotherapy, including: Humanistic-Existential, Behavioral, and Cognitive-Behavioral. The course will include didactic and experiential components, and will focus on developing the skills and knowledge necessary to use techniques from these theories in a professional context.

PSY 01566: Counseling Theory And Techniques II 3 s.h.
Prerequisite: PSY 09595 and PSY 01564 with grade of B- or above

This course is designed to be an overview of several major theoretical approaches to psychotherapy, including: Psychodynamic, Systems, Cognitive, and Interpersonal. The course will include didactic and experiential components, and will focus on developing the skills and knowledge necessary to use techniques from these theories in a professional context. In addition to these general skills, the course will also focus on the application of these techniques to specific populations of interest within the psychological community.

PSY 01570: Research Methodology And Statistics In Counseling Psychology 3 s.h.
This is a graduate level introduction to research methodology and statistics with special application of these principles to the practice of mental health counseling. Students will develop the skills necessary to critically evaluate and interpret research and statistics, thus allowing them to be excellent consumers of research as well as developing practice-relevant research projects.

PSY 01572: Research Methodology And Statistics In Counseling Psychology I: Basics 3 s.h.
Prerequisite: Matriculation in the Masters Program in Clinical Mental Health Counseling

This is a graduate level introduction to research methodology and statistics with special application of these principles to the practice of mental health counseling. Students will develop the skills necessary to critically evaluate and interpret research and statistics, thus allowing them to be excellent consumers of research as well as developing practice-relevant research projects.

PSY 01574: Research Methodology And Statistics In Counseling Psychology II: Applied 3 s.h.
Prerequisite: PSY 01572 with B- or above

In this graduate level course, students will learn how to apply the skills learned in Research Methodology & Statistics in Counseling Psychology I: Basic course through all of the steps required to propose an empirical project requiring either postulating a testable hypothesis and delineating the methodology used to test the hypothesis or to apply knowledge of research methodology to the empirical evaluation of counseling interventions with a single or small number of clients.

PSY 01610: Career And Lifestyle Development 3 s.h.

Advanced students will learn the major theories of career choice and development, gaining an understanding of the complex personal, organizational, and societal factors that impact upon career choice. Students will learn to understand occupational trends and occupational classification systems, and have the opportunity to study and administer various career interest batteries. Students will gain an appreciation for the changing nature of work and career focus across the life span, including predictable career transitions and challenges. Theoretical and self assessment techniques will be utilized to help students gain an understanding of the need for balance between work and personal life, and will provide insight into the theories and choices involved in leisure activity and in stress management practices. Experiential exercises and projects will be an integral aspect of the course leading to an appreciation not only of theory but of its application.

Course Descriptions

- PSY 01612: Group Counseling And Psychotherapy 3 s.h.
Prerequisite: PSY 09595 and PSY 01624 with grade of B- or above
This course addresses fundamental issues concerning the development and dynamics of group counseling and provides the student with a background in group counseling theories and methods. Issues covered include group process components, the stages of group development and leadership styles and approaches. Methods for evaluating the effectiveness of group counseling are discussed.
- PSY 01615: Professional Proseminar 1 s.h.
Prerequisites: Matriculation in the Masters Program in Clinical Mental Health Counseling
This seminar is intended to serve two purposes for students in the first year of training in the MA Program in Clinical and Counseling Psychology. First, students will be provided with the ability to discuss how the skills and knowledge they have acquired during their training should be integrated to form a coherent professional identity. Second, students will have the opportunity to gain more knowledge and understanding of the profession they are being trained in and how to become an active/contributing member to that profession. Current accreditation standards in the field place a particular emphasis on students developing a solid sense of professional identity, which includes knowledge of a) the history of the profession, b) current trends in the field, c) licensing and credentialing issues, and d) areas of work and influence in the field. This course will provide the vehicle for discussing and disseminating these issues.
- PSY 01616: The Counseling Profession: Ethics And Professional Identity 3 s.h.
This course is designed to enrich the student's understanding of the counseling profession and the professional identity of counselors. The student will be exposed to the professional roles, functions, goals, and objectives of the counseling profession, as well as organizations and associations of the profession. Students will study the history and development of counseling as a profession and will examine current trends in counseling. Finally, the student will explore professional ethics and standards of practice (ACA, ASGW, AMHCA, NCAD) and will become familiar with professional licensure in New Jersey and national certifications (NBCC AND CCE) and with accreditation standards for counseling (CACREP). (For Summer 2011 the course is offered as web-assisted, with some content delivered online.)
- PSY 01620: Legal, Ethical, and Professional Issues In Counseling 3 s.h.
Prerequisite: Matriculation in the Masters Program in Clinical Mental Health Counseling
This course covers legal and ethical issues involved in the delivery of human services and counseling. Issues addressed include ethical standards for therapists, the role of the mental health professional in the legal system, and standards of ethical practice for counselors. The student will consider the possible legal consequences of treatment decisions and approaches. This course will provide an understanding of all aspects of professional functioning including history, roles, ethics, standards and credentialing.
- PSY 01623: Psychopathology I: Diagnosis And Epidemiology 3 s.h.
This course reviews the diagnostic criteria for the major categories of psychopathology included in the DSM-IV-TR. The emphasis for course is reviewing the prevalence rates and differential diagnosis for the various categories. The course reviews the concepts and skills necessary to provide a five axis diagnosis for adults and children.
- PSY 01624: Psychopathology II: Conceptualization And Etiology 3 s.h.
Prerequisites: PSY 01623 with B- or above
This course reviews the diagnostic criteria for the major categories of psychopathology included in the DSM-IV-TR. The course emphasizes the etiological factors for the various diagnostic categories as well as the course and prognosis for each disorder. Current research for evidence based interventions for each of the disorders will also be reviewed.
- PSY 01630: Family Systems Theory And Family Therapy 3 s.h.
This graduate level course will explore the importance of family therapy in the human service delivery system. The course will emphasize several areas. First, the course will review the major theoretical approaches to family therapy as well as the foundation concepts of general system theory. Second, the skills and techniques unique to family therapy will be reviewed. This aspect of the course will utilize role plays to demonstrate specific intervention strategies. Third, the course will review assessment tools and evaluation research of family therapy. Finally, the ethical and documentation issues involved in a family therapy will be discussed.
- PSY 01650: Practicum In Counseling 1 to 9 s.h.
Prerequisite: PSY 01624 and PSY 01566 and PSY 01620
Students will be placed in human service settings where they will provide, under supervision, counseling and related services. Both on-site and Psychology Department supervisors will monitor student progress. Students will work with clients to establish goals for change, employ appropriate counseling techniques and evaluate goal attainment.

Course Descriptions

- PSY 01660: Practicum In Applied Behavior Analysis I 3 s.h.
Prerequisite(s): PSY 02670 and PSY 02690 and Permission of Program Advisor
In this course students are placed in a community agency to apply their knowledge and skills in applied behavior analysis. Students will be required to meet weekly with the instructor of the course.
- PSY 01661: Practicum In Applied Behavior Analysis II 3 s.h.
Prerequisites: PSY 01660
In this course students are required to complete intensive supervised fieldwork in a community agency to further develop their clinical skills in applied behavior analysis. Focus will be placed on advanced assessment, intervention, and maintenance programming, treatment integrity, consultation, and staff supervision and training. Students will be required to meet weekly with the instructor of the course.
- PSY 01685: Master's Thesis In Psychology I 3 s.h.
Prerequisite: PSY 01574 with B- or above
This course requires the design of an independently executed research project. The project will be supervised by a member of the Psychology Department. The student may choose a group design, single subject ABA design or Case Study for their project. The thesis will include a literature review, design of the project and the initial implementation.
- PSY 01687: Master's Thesis In Psychology II 3 s.h.
Prerequisite: PSY 01685
This course requires the completion of the independently executed research project that was initiated in Masters Thesis in Psychology I. The project will be supervised by a member of the Psychology Department. Completion of the course will include the production of a comprehensive final product that needs to be approved by the student's project supervisor.
- PSY 01750: Multicultural Perspectives 3 s.h.
Prerequisite: PSY 09.700
The purpose of this course is to ensure that students know and are able to define culture, assimilation, acculturation, and cultural differences, identify different types of diversity, explores challenges and benefits of diversity, recognize the problem of stereotyping, prejudice, bias, and discrimination and the ways to avoid them, and describe ethnocentrism and its relationships to diversity. Students will gain specific competencies necessary to work effectively with an increasingly diverse population. This graduate level course is required for student in the Ph.D. program in Clinical Psychology.
- PSY 01850: DISSERTATION RESEARCH I 1 s.h.
Prerequisite: Grade of Pass in PSY 03814
The purpose of this course is to for students to begin to work with their research advisors on their dissertations. At the end of this course, students are expected to have completed at least one draft of the introduction of their research proposal. This course is restricted to students matriculated into the doctoral program in clinical psychology.
- PSY 01852: DISSERTATION RESEARCH II 1 s.h.
Prerequisites: PSY 01.850 Dissertation Research I
The purpose of this course is to for students to continue to work with their research advisors to develop a high-quality, scientifically rigorous research study. At the completion of this course, students are expected to have written a complete proposal including the introduction, background, and methodology for the study. This course is restricted to students matriculated into the doctoral program in clinical psychology.
- PSY 01853: DISSERTATION RESEARCH III 1 s.h.
Prerequisite: Grade of Pass in PSY 01852
The purpose of this course is to for students to continue to work with their research advisors to develop a high-quality, scientifically rigorous research study. At the completion of this course, students are expected to have begun data collection. This course is restricted to students matriculated into the doctoral program in clinical psychology.
- PSY 01854: DISSERTATION RESEARCH IV 1 s.h.
Prerequisite: Grade of Pass in PSY 01853
The purpose of this course is to for students to complete work on their dissertation research project. At the end of this course, students are expected to have completed a draft of their research project. This course is restricted to students matriculated into the doctoral program in clinical psychology.
- PSY 01855: Dissertation Research 1 to 6 s.h.
Prerequisites: Grade of B or higher in PSY 03815 or (Grade of Pass in PSY 03812 or PSY 03814) or Permission of Instructor
The purpose of this course is for students to begin to develop an empirical project that will result in a manuscript containing a relevant literature review (Introduction), research aims/hypotheses, a detailed accounting of how info/data were collected or compiled (Method section), an accounting of the statistical analyses applied and the results, with a discussion portion that adequately explores the implications of the findings. This course is restricted to students matriculated into the doctoral program in Clinical Psychology.

Course Descriptions

- PSY 02305: Applied Behavior Analysis 3 s.h.
Prerequisite: PSY 02310
This course deals with the principles, procedures and utility of behavior modification in normal and clinical settings.
- PSY 02310: Learning And Behavior 3 s.h.
Prerequisites: PSY 01107 or Matriculation in the Post-Baccalaureate Certificate in Applied Behavior Analysis.
This course provides an overview of the experimental analysis of behavior with minor attention to other theories of learning. Topics may include classical conditioning, operant conditioning, and schedules of reinforcement.
- PSY 02500: Basic Principles Of Behavior 3 s.h.
This course is a graduate course in the basic principles of behavior. Course content includes the historical basis of behavior analysis, the distinction between respondent/classical and operant conditioning, and the basic principles, processes, and concepts of behavior analysis.
- PSY 02510: Research Methods In Behavior Analysis 3 s.h.
Prerequisite: PSY 02500
This course provides students with the knowledge and skills to choose and implement an appropriate experimental design to evaluate the success of behavioral interventions.
- PSY 02520: Assessment And Interventions For Social Skills And Relationships In Children 3 s.h.
This course is a graduate course in examining the development of social and emotional competence in children, the assessment of social skill deficits, and various interventions aimed at improving social skills and relationships in children and children with special needs.
- PSY 02600: ABC's Of Applied Behavior Analysis 3 s.h.
This course provides a graduate level introduction to the field of behavior analysis. The course will cover the history of the field, behavioral assessment, and behavioral intervention. The focus of this course is on knowledge of the field and not the application of skills.
- PSY 02610: APPLIED BEHAVIOR ANALYSIS 3 s.h.
Prerequisite(s): PSY 02500 and PSY 02510 and PSY 02620
- PSY 02620: Behavioral Assessment & Functional Analysis 3 s.h.
Corequisite: PSY 02500
This course teaches students how to conduct a comprehensive assessment for behavior problems, to identify, with the client, the appropriate goals and objectives for intervention, to conduct the appropriate assessment techniques, and to select the appropriate measurement procedures to evaluate outcomes.
- PSY 02630: Experimental Foundations of Behavior Therapy of Psychology 3 s.h.
Prerequisite: Matriculation into Ph.D. Program in Clinical Psychology
This course provides Ph.D. students in Clinical Health Psychology with advanced and highly specialized knowledge in the experimental analysis of human behavior, specifically as it relates to problems of clinical relevance. Students will matter the conceptual underpinnings of the behavior therapies through an examination of complex behavior problems from a behavior analytical and rigorously experimental perspective, including but not limited to behavioral economic, behavioral momentum, variability, Skinner's analysis of verbal behavior, and Relational Frame Theory (RFT). This course is restricted to students matriculated into the doctoral program in clinical psychology.
- PSY 02660: Research Project In Applied Behavior Analysis I 3 s.h.
Prerequisite: PSY 02510 and PSY 01550
This graduate level course requires the design of an independently executed research project evaluating applied behavior analytic techniques for changing behavior. In this course students will work from foundational skills acquired in the prerequisite course in Research Methods in Behavior Analysis (PSY 02510) and with close instructor consultation to fully design, write up, and defend the proposal of an empirical study.
- PSY 02661: Special Topics Applied Behavior Analysis 3 s.h.
Prerequisite: PSY 02500 and PSY 01610
This course is a graduate seminar course providing in-depth coverage of special topics in the practice of Applied Behavior Analysis. Course content will reflect the most current issues involving the design and implementation of behavioral interventions for specific populations and circumstances. Course topics may include but are not limited to: verbal behavior, curriculum design for children with autism, behavioral interventions for basic life skills, behavior analysis in education, behavioral interventions for children with emotional/behavioral disorders, behavior analysis of addiction, legal issues for applied behavior analysts, early intensive behavioral intervention, and large-scale behavioral intervention.

Course Descriptions

PSY 02662: Research Project in Applied Behavior Analysis II 3 s.h.
Prerequisite: PSY 02660

This capstone graduate level course requires the student to write and defend their completed, independently executed research project evaluating applied behavior analytic techniques for changing behavior. In this course students will complete their independent research project requirement that was proposed in the prerequisite course in Research Project in Applied Behavior Analysis I (PSY 02660) with close instructor consultation. This is a required course for students pursuing the Certificate of Graduate Studies (COG) in Research and Leadership in Applied Behavior Analysis.

PSY 02670: Ethics In Applied Behavior Analysis 3 s.h.
Prerequisite(s): PSY 02610 and PSY 02620 and PSY 02690

This graduate level course is required for students in the Master's of Arts program in Applied Behavior Analysis. The purpose of this course is to ensure that students know and are able to apply the Behavior Analyst Certification Board's (BACB) Guidelines for Responsible Conduct for Behavior Analysts. In addition, students will be taught the BACB Professional Disciplinary and Ethical Standards.

PSY 02671: Behavioral Consultation, Supervision, and Management 3 s.h.
Prerequisite(s): PSY 02670 and PSY 02690

The purpose of this course is to provide students with best practice skills in behavior analytic personnel supervision, management, and consultation. In this course students will learn to provide effective supervision, train staff to competency, and improve personnel performance. Students will also demonstrate consultative competencies involving rapport building, effective communication, problem identification and analysis, intervention selection, and outcome evaluation. This course is required for all students in the Master of Arts in Applied Behavior Analysis program.

PSY 02672: Performance Management 3 s.h.
Prerequisites: PSY 02671 & Acceptance in the Concentration in Research & Leadership in Applied Behavior Analysis

PSY 02680: Advanced Practice In Applied Behavior Analysis 3 s.h.
Prerequisite(s): PSY 02500 and PSY 02510 and PSY 01610 and PSY 02620 and PSY 02670 and PSY 02690 and Permission of Program Advisor

This course provides in-depth hands-on demonstration and practice of a variety of behavior analytic clinical techniques. Students will demonstrate competencies in a variety of clinical skills including those involving specific behavior change procedures, broad behavior change systems and the implementation, management, and supervision of those procedures.

PSY 02690: Comprehensive Exam in Applied Behavior Analysis 1 s.h.
Prerequisite(s): PSY 01510 and PSY 02500 and PSY 02620 and PSY 02610 and PSY 02510

This graduate level course requires the student to demonstrate that they have met the requirements for continuing in the Master of Arts in Applied Behavior Analysis. The students will be required to satisfactorily complete a written and oral comprehensive exam to pass this course. The comprehensive exams will cover all coursework completed up to that point. This is a required course for students pursuing the Certificate of Graduate Studies (COGS) in Research in the Master's of Arts program in Applied Behavior Analysis.

PSY 02706: RESEARCH METHODS 3 s.h.
Prerequisite: Matriculation into the Ph.D. in Clinical Psychology Program.

This doctoral level course provides an overview of group research methodologies frequently used in professional psychological research. Topics covered in this course include validity and reliability, systematic observation, self report measures, sampling techniques, control and comparison groups, treatment evaluation strategies, and research ethics. This course is designed to provide students the tools to design their own research in the discipline of professional psychology as well as the ability to evaluate research generated by others. This course is restricted to students matriculated into the doctoral program in clinical psychology.

PSY 03200: Abnormal Psychology 3 s.h.
Prerequisite: PSY 01107

Abnormal Psychology is a division of the science of psychology that investigates disordered behaviors, deficiencies in behavior capacities, and the persons exhibiting them. This course of Abnormal Psychology is concerned with the application of the methods, concepts, principles and findings of psychological research to deviant behavior. It is also concerned with perception, learning, development and social factors as related to disturbed behavior and experiences of individuals.

Course Descriptions

PSY 03205: Intake And Interviewing Skills In Psychology 3 s.h.
Prerequisites: PSY 01107 and PSY 03200

This course is designed to prepare undergraduates to be able to perform an initial interview or intake in an entry level, human service position. Topics include basic skill development, understanding of content and process in interviewing, family interviews, use of standard intake procedures, and ethical considerations in interviewing.

PSY 03518: Psychological Evaluation And Counseling Services To Combat Alcohol And Drug Abuse 3 s.h.

This course provides students with information needed to evaluate and counsel drug and/or alcohol dependent or addicted individuals and their families. Topics covered include strategies necessary for the coordination and delivery of intervention and referral services in a school setting.

PSY 03620: Cognitive-Behavioral Treatment Strategies 3 s.h.

This course is designed to be an overview of cognitive-behavioral treatment and theory. The course will include didactic and experiential components, and will focus on developing the skills and knowledge necessary to use cognitive-behavioral treatment in a professional context. In addition to these general skills, the course will also focus on the application of these techniques to specific populations of interest within the psychological community.

PSY 03624: Psychopathology Of Children And Adolescents 3 s.h.

This course includes relating personality theory to psychopathology, diagnostic nomenclature in child psychopathology, review of major psychotherapeutic approaches for children, techniques for working with parents and treatment facilities away from home. This course may include field trips to appropriate agencies and as well as case preparation.

PSY 03701: Assessment I: Psychometrics and Cognitive Testing 3 s.h.

Prerequisite: Matriculation into Ph.D. Program in Clinical Psychology

This course is part of the two-course sequence and provides the foundational knowledge needed to critically evaluate test measures and their uses. In addition, students will gain exposure to a wide range of cognitive assessment tools and strategies. Students will be taught the basic assessment skills necessary to conduct an initial consultation regarding cognitive issues, test selection, standardized test administration, test scoring & interpretation using appropriate normative data while considering cultural factors, integrative report writing, and communications of results and treatment recommendations. Students will also be introduced to ethical and professional issues related to cognitive assessment, and they will be expected to demonstrate their skills as part of their classroom experience.

PSY 03704: Assessment II: Individual Differences and Personality 3 s.h.

Prerequisite: Grade of B- or better in PSY 03.701

This class is designed to promote an understanding of the unique individual and contextual factors that influences individual development and personality. Issues related to personality test development and use will be examined in-depth. Student will have opportunities to administer, score and interpret various measures that provide information about important individual differences and personality functioning. This course will also cover the use of normative data and cultural factors during the assessment process. Students will gain experience with integrative report writing and the communication of results and treatment recommendations. Students will be introduced to ethical and professional issues related to personality assessment.

PSY 03710: Intervention I: Foundational Clinical Skills 3 s.h.

Prerequisites: Matriculation into the Ph.D. Program in Clinical Psychology.

The course will focus on an introduction to the practical skills that may enhance the development of rapport in context of a therapeutic relationship between therapist and client. This course will also review mental status exams, the content areas of the initial intake interview, assessing for suicide and homicide risk, and basic conceptualization skills. Students are expected to demonstrate these skills through use of roleplays and active learning processes.

PSY 03712: Intervention II: Evidence-Based Interventions with Adults 3 s.h.

Prerequisites: Grade of B- or better in PSY 03.710 Intervention I: Foundational Clinical Skills

This course is designed to be an overview of the major theoretical approaches to adult psychotherapy including: Behavioral, Cognitive, Humanistic-Existential, and Psychodynamic traditions. The course will include didactic and experiential components, and will expose students to the fundamental aspects of each theory and treatment approach. The ultimate goal is for students to develop the skills and knowledge necessary to use techniques from these theories in a professional context. This course is restricted to students matriculated into the doctoral program in clinical psychology.

PSY 03715: Intervention III: Evidence-Based Interventions with Children & Adolescents 3 s.h.
Prerequisites: Grade of B- or better in PSY 03.712 Intervention II: Evidence-Based Interventions with Adults

This course provides an intensive overview of an ecological approach to child, adolescent, and family therapy. Starting with the integration of a developmental perspective into clinical practice, the material in this course reviews different models of therapy for children, adolescents, and families. The remainder of the course focuses on learning the evidence-based interventions for specific disorders unique to childhood and adolescence. Issues of prevention of mental health issues in children and adolescents are reviewed. This course is restricted to students matriculated into the doctoral program in clinical psychology.

PSY 03717: Advanced Cognitive-Behavioral Assessment and Treatment 3 s.h.
Prerequisites: Grade of B- or better in PSY 03.17.5 Intervention III: Evidence-Based Intervention with Children and Adolescents

This class will allow students in the Doctoral Program in Clinical Psychology to develop their skills in Cognitive-Behavioral Treatment at a deeper level and learn to apply these skills to specific populations and settings. Additionally, this class will allow students to learn specific treatment protocols for specific types of disorders and in non-traditional settings and with unique populations.

PSY 03721: PROFESSIONAL PROSEMINAR I 1 s.h.
Prerequisite: Matriculation in the Ph.D. Program in Clinical Psychology

The seminar is intended allow students to explore emerging areas and build competencies consistent with emerging trends in clinical psychology. Additionally, students will be introduced to specific types of competencies that do not lend them self to the comprehensiveness of a traditionally structured course. Finally, the course serves as a place for professional discourse and growth for students as they progress through the program. This course is restricted to students matriculated into the doctoral program in clinical psychology.

PSY 03722: PROFESSIONAL PROSEMINAR II 1 s.h.
Prerequisite: Grade of Pass in PSY 03721

The seminar is intended allow students to explore emerging areas and build competencies consistent with emerging trends in clinical psychology. Additionally, students will be introduced to specific types of competencies that do not lend them self to the comprehensiveness of a traditionally structured course. Finally, the course serves as a place for professional discourse and growth for students as they progress through the program. This course is restricted to students matriculated into the doctoral program in clinical psychology.

PSY 03723: PROFESSIONAL PROSEMINAR III 1 s.h.
Prerequisite: Grade of Pass in PSY 03722

The seminar is intended allow students to explore emerging areas and build competencies consistent with emerging trends in clinical psychology. Additionally, students will be introduced to specific types of competencies that do not lend them self to the comprehensiveness of a traditionally structured course. Finally, the course serves as a place for professional discourse and growth for students as they progress through the program. This course is restricted to students matriculated into the doctoral program in clinical psychology.

PSY 03724: Professional Proseminar IV 1 s.h.
Prerequisite: Grade of Pass in PSY 02723

The seminar is intended allow students to explore emerging areas and build competencies consistent with emerging trends in clinical psychology. Additionally, students will be introduced to specific types of competencies that do not lend them self to the comprehensiveness of a traditionally structured course. Finally, the course serves as a place for professional discourse and growth for students as they progress through the program. This course is restricted to students matriculated into the doctoral program in clinical psychology.

PSY 03725: PROFESSIONAL PROSEMINAR V 1 s.h.
Prerequisite: Grade of Pass in PSY 03724

Students enrolled in Doctoral Program in Clinical Psychology are required to enroll in one section of Professional Proseminar every Fall and Spring semester during their first four years in the program. This is the fifth proseminar in that sequence. The seminar is intended allow students to explore emerging areas and build competencies consistent with emerging trends in clinical psychology. Additionally, students will be introduced to specific types of competencies that do not lend them self to the comprehensiveness of a traditionally structured course. Finally, the course serves as a place for professional discourse and growth for students as they progress through the program. This course is restricted to students matriculated into the doctoral program in clinical psychology.

PSY 03726: PROFESSIONAL PROSEMINAR VI 1 s.h.
Prerequisite: Grade of Pass in PSY 03725

Students enrolled in Doctoral Program in Clinical Psychology are required to enroll in one section of Professional Proseminar every Fall and Spring semester during their first four years in the program. This is the sixth proseminar in that sequence. The seminar is intended allow students to explore emerging areas and build competencies consistent with emerging trends in clinical psychology. Additionally, students will be introduced to specific types of competencies that do not lend them self to the comprehensiveness of a traditionally structured course. Finally, the course serves as a place for professional discourse and growth for students as they progress through the program. This course is restricted to students matriculated into the doctoral program in clinical psychology.

PSY 03727: PROFESSIONAL PROSEMINAR VII 1 s.h.
Prerequisite: Grade of Pass in PSY 03726

Students enrolled in Doctoral Program in Clinical Psychology are required to enroll in one section of Professional Proseminar every Fall and Spring semester during their first four years in the program. This is the seventh proseminar in that sequence. The seminar is intended allow students to explore emerging areas and build competencies consistent with emerging trends in clinical psychology. Additionally, students will be introduced to specific types of competencies that do not lend them self to the comprehensiveness of a traditionally structured course. Finally, the course serves as a place for professional discourse and growth for students as they progress through the program. This course is restricted to students matriculated into the doctoral program in clinical psychology.

PSY 03728: PROFESSIONAL PROSEMINAR VIII 1 s.h.
Prerequisites: Grade of 'Pass' in PSY 02.727 ProfessionalProseminar VII.

Students enrolled in Doctoral Program in Clinical Psychology are required to enroll in one section of Professional Proseminar every Fall and Spring semester during their first four years in the program. This is the eighth proseminar in that sequence. The seminar is intended allow students to explore emerging area and build competencies consistent with emerging trends in clinical psychology. Additionally, students will be introduced to specific types of competencies that do not lend themself to the comprehensiveness of a traditionally structured course. Finally, the course serves as a place for professional discourse and growth for student as they progress through the program. This course is restricted to students matriculated into the doctoral program in clinical psychology.

PSY 03740: Professional, Ethical, and Legal Issues in Clinical Psychology 3 s.h.
Prerequisite: Matriculation into the Clinical Psychology Ph.D. program.

This course covers ethical, legal, and professional issues involved in the discipline of psychology. Students will learn about historical and contemporary issues shaping the field of psychology and the training/supervision requirements needed to ethically/legally engage in various roles. Students will be challenged to actively apply the APA principles and ethical standards through a variety of exercises. State and Federal laws and regulations, including landmark legal cases, will be examined in-depth. Students will consider the possible legal consequences of their behaviors/decisions. This course is restricted to students matriculated into the doctoral program in clinical psychology.

PSY 03742: INTRODUCTORY PRACTICUM 3 s.h.
Prerequisites: Grade of B- or better in PSY 03.703 Assessment II: Cognitive AND PSY 03.712 Intervention II: Evidence-Based Interventions with Adults AND PSY 03.732 Psychopathology II: Children & Adolescents

The Introductory Practicum is designed to let students develop intake, diagnostic, and assessment skills that they have learned during the first year in the program. Students will first shadow one of the more advanced clinical students and assist them in a clinical evaluation and assessment. Following this, student will then be expected to conduct their own evaluation independently. Additional experiences may also be available. Students will also be expected to engage in regular supervision provided by their practicum supervisor. This course is restricted to students matriculated into the doctoral program in clinical psychology.

PSY 03744: Foundational Practicum I 3 s.h.
Prerequisite: Grade of Pass in PSY 03742

The Practicum is designed to provide students with a vehicle for obtaining practical experience and training to become competent clinical psychologists. Students will be assigned to either an internal or external practicum site. At that site, they will conduct clinical evaluations, assessments, psychotherapy and other work appropriate to the role of a clinical psychologist. The Foundation Practicum sequence is designed such that students will develop foundational clinical skills related to their clinical work. Students will also be expected to engage in regular individual and group supervision provided by their practicum supervisor. This course is restricted to students matriculated into the doctoral program in clinical psychology.

PSY 03746: Foundational Practicum II 3 s.h.
Prerequisite: Grade of Pass in PSY 03744

The Practicum is designed to provide students with a vehicle for obtaining practical experience and training to become competent clinical psychologists. Students will be assigned to either an internal or external practicum site. At that site, they will conduct clinical evaluations, assessments, psychotherapy and other work appropriate to the role of a clinical psychologist. The Foundation Practicum sequence is designed such that students will develop foundational clinical skills related to their clinical work. Students will also be expected to engage in regular individual and group supervision provided by their practicum supervisor. This course is restricted to students matriculated into the doctoral program in clinical psychology.

PSY 03748: Foundational Practicum III 3 s.h.
Prerequisite: Grade of Pass in PSY 03746

The Practicum is designed to provide students with a vehicle for obtaining practical experience and training to become competent clinical psychologists. Students will be assigned to either an internal or external practicum site. At that site, they will conduct clinical evaluations, assessments, psychotherapy and other work appropriate to the role of a clinical psychologist. The Foundation Practicum sequence is designed such that students will develop foundational clinical skills related to their clinical work. Students will also be expected to engage in regular individual and group supervision provided by their practicum supervisor. This course is restricted to students matriculated into the doctoral program in clinical psychology.

PSY 03800: Intermediate Practicum I 3 s.h.
Prerequisite: Grade of Pass in PSY 03748

The Practicum is designed to provide students with a vehicle for obtaining practical experience and training to become competent clinical psychologists. Students will be assigned to either an internal or external practicum site. At that site, they will conduct clinical evaluations, assessments, psychotherapy and other work appropriate to the role of a clinical psychologist. The Intermediate Practicum sequence is designed such that students will develop increasingly more complex and advanced clinical skills related to their clinical work. Students will also begin to develop skills consistent with their chosen concentrations. In addition to their clinical work, students will also be expected to engage in regular individual and group supervision provided by their practicum supervisor. This course is restricted to students matriculated into the doctoral program in clinical psychology.

PSY 03802: Intermediate Practicum II 3 s.h.
Prerequisite: Grade of Pass in PSY 03800

The Practicum is designed to provide students with a vehicle for obtaining practical experience and training to become competent clinical psychologists. Students will be assigned to either an internal or external practicum site. At that site, they will conduct clinical evaluations, assessments, psychotherapy and other work appropriate to the role of a clinical psychologist. The Intermediate Practicum sequence is designed such that students will develop increasingly more complex and advanced clinical skills related to their clinical work. Students will also begin to develop skills consistent with their chosen concentrations. In addition to their clinical work; students will also be expected to engage in regular individual and group supervision provided by their practicum supervisor. This course is restricted to students matriculated into the doctoral program in clinical psychology.

PSY 03804: Intermediate Practicum III 3 s.h.
Prerequisite: Grade of Pass in PSY 03802

The Practicum is designed to provide students with a vehicle for obtaining practical experience and training to become competent clinical psychologists. Students will be assigned to either an internal or external practicum site. At that site, they will conduct clinical evaluations, assessments, psychotherapy and other work appropriate to the role of a clinical psychologist. The Intermediate Practicum sequence is designed such that students will develop increasingly more complex and advanced clinical skills related to their clinical work. Students will also begin to develop skills consistent with their chosen concentrations. In addition to their clinical work, students will also be expected to engage in regular individual and group supervision provided by their practicum supervisor. This course is restricted to students matriculated into the doctoral program in clinical psychology.

PSY 03812: THESIS RESEARCH I 1 s.h.
Prerequisite: Grade of B- or better in PSY 02.706 Research Methods

The purpose of this course is for students to be working with their research advisor on their master's thesis. At the end of this course, students are expected to have completed at least one draft of the Introduction and Method sections of their research proposal. This course is restricted to students matriculated into the doctoral program in Clinical Psychology.

Course Descriptions

PSY 03814: Thesis Research II 1 s.h.
Prerequisite: Grade of "Pass" in PSY 03.812 Thesis Research I

The purpose of this course is for students to complete their work with their research advisor on their master's thesis. At the end of this course, students are expected to have completed a final copy of their master's thesis. This course is restricted to students matriculated into the doctoral program in Clinical Psychology.

PSY 03815: Thesis Research 1 to 2 s.h.
Prerequisite: Grade of B- or better in PSY 02706

The purpose of this course is for students to begin to develop an empirical project that will ultimately result in a manuscript containing a relevant literature review (Introduction), research aims/hypotheses, a detailed accounting of how information/data were collected or compiled (Method section), an accounting of the statistical analyses applied, and the results, with a discussion portion that adequately explores the implications of the findings. This course is restricted to students matriculated into the doctoral program in Clinical Psychology.

PSY 03820: ADVANCED PRACTICUM I 3 to 7 s.h.
Prerequisite: Grade of Pass in PSY 03804

The Practicum is designed to provide students with a vehicle for obtaining practical experience and training to become competent clinical psychologists. Students will be assigned to either an internal or external practicum site. At that site, they will conduct clinical evaluations, assessments, psychotherapy and other work appropriate to the role of a clinical psychologist. The Advanced Practicum sequence is designed such that students will develop increasingly more complex and advanced clinical skills related to their chosen concentration. Students will also have the opportunity to supervise other students in the program to begin to develop their applied supervisory skills. In addition to their clinical work, students will also be expected to engage in regular individual and group supervision provided by their practicum supervisor. This course is restricted to students matriculated into the doctoral program in clinical psychology.

PSY 03822: Advanced Practicum II 3 to 7 s.h.
Prerequisite: Grade of Pass in PSY 03820 Advanced Practicum I

The Practicum is designed to provide students with a vehicle for obtaining practical experience and training to become competent clinical psychologists. Students will be assigned to either an internal or external practicum site. At that site, they will conduct clinical evaluations, assessments, psychotherapy and other work appropriate to the role of a clinical psychologist. The Advanced Practicum sequence is designed such that students will develop increasingly more complex and advanced clinical skills related to their chosen concentration. Students will also have the opportunity to supervise other students in the program to begin to develop their applied supervisory skills. In addition to their clinical work, students will also be expected to engage in regular individual and group supervision provided by their practicum supervisor. This course is restricted to students matriculated into the doctoral program in clinical psychology.

PSY 03830: Health Psychology 3 s.h.
Prerequisites: Grade of B- or better in PSY 10.630 Biological Bases of Behavior AND PSY 02.715 Intervention II: Evidence-Based Interventions with Adults

This course will provide doctoral students with a foundation of clinical health psychology. Theories of health behaviors will be introduced in relation to behavioral risk factors. Focus will be on assessment and treatment of primary behavioral problems encountered in health psychology. This course is restricted to students matriculated into the doctoral program in clinical psychology and is a required course.

PSY 03832: Behavioral Medicine 3 s.h.
Prerequisites: Grade of B- or better in PSY 03.838 Primary Care Psychology

This course will expose students to the field of behavioral medicine and outline a behavior analytic approach to health promotion, disease prevention, and treatment of chronic disease and other behavior-related illnesses. The principles of behavior change will be reviewed and applied to a wide range of conditions including cardiovascular disease, obesity, drug and alcohol abuse, diabetes, and other psychophysiological disorders. This course is restricted to students matriculated into the doctoral program in clinical psychology.

PSY 03834: Neuropsychological Assessment 3 s.h.
Prerequisites: Grade of B- or better in PSY 03.703 Assessment II: Cognitive

The course will emphasize the development of skills for recognizing and describing deficits in major aspects of cognitive functioning. The relationship between neuropsychological assessment techniques and procedures and brain-behavior relationships will be highlighted. Students will learn about the psychometric and qualitative aspects of the assessment process along with the selection and use of appropriate normative comparison standards. Finally, the role of the comprehensive neuropsychological assessment procedures in the evaluation of neurobehavioral disorders will be explored. This course is restricted to students matriculated into the doctoral program in clinical psychology and is required of students in Clinical Health Psychology.

PSY 03835: Pediatric Psychology 3 s.h.
Prerequisites: Grade of B- or better in PSY 03.832 Behavior Medicine.

The purpose of this course is to examine the links between psychological and medical issues from infancy through adolescence. Psychosocial aspects of specific medical problems and developmental, emotional, and behavioral disorders are reviewed with an emphasis on evidencebased approaches to intervention and prevention. Students in this course are required to present a relevant case from their practice. This course is restricted to students matriculated into the doctoral program in clinical psychology and required for those in Clinical Health Psychology.

PSY 03838: Health Care Models & Service Delivery 3 s.h.
Prerequisite: Grade of B- or better in PSY 03.830

Many individuals receiving care for behavior health conditions also have physical health conditions that require medical attention, and vice versa. As a result, health care systems are evolving rapidly to improve coordination among health care providers and patients as well as to create models specific to rural and urban settings. In this course, students will learn how to effectively collaborate in a primary care setting, the different models of practice that can be used to integrate physical and behavioral health, and adaptations of these models for different settings. A final component of the course is discussion of how the changing landscape of health care policy impacts the practice of psychology.

PSY 03860: INTERNSHIP 0 s.h.
Prerequisites: Permission of instructor

The internship is a 12-month full-time commitment (2,000 hours) that is designed to provide an intensive clinical experience expanding upon the required didactic coursework, clerkship, diagnostic practicum and therapy practicum experiences. In some approved circumstances students may complete the requirement in 24 months. Students will typically enroll in this noncredit course for each of the semesters that they are away. This course is restricted to students matriculated into the doctoral program in clinical psychology.

PSY 03900: Advanced Seminar in Health Psychology and Behavioral Medicine 3 s.h.
Prerequisites: Grade of B- or better in PSY 03.835 Pediatric Psychology

PSY 03.900 Advanced Seminar in Health Psychology and Behavioral Medicine 3 S.H. Prerequisites: Grade of B- or better in PSY 03.835 Pediatric Psychology Health Psychology and Behavioral Medicine represent disciplines that are dynamic and evolving. This content of this seminar will vary each time it is offered with different classes addressing different advanced topic areas in Health Psychology and Behavioral Medicine. The course is intended to be flexible so that different topics can be presented in response to emerging trends in the field. Faculty Workload Hours: 3

PSY 03902: Advanced Seminar in Evidence Based Practice 3 s.h.
Prerequisites: Grade of B- or better in PSY 03.717 Advanced Cognitive-Behavioral Assessment and Therapy

This seminar is intended to be flexible in content and responsive to emerging trends in healthcare and treatment of individuals within a variety of different contexts. Cognitive-Behavioral treatments have been at the forefront of evidence-based treatments and therefore the content of this advanced seminar may focus on developments within this framework. However, the specific content of this seminar will be deliberately flexible and emerging evidence-based care models and treatments, regardless of the theoretical foundations from which they emerge, will also be included. The focus of the class will be on helping students develop both a knowledge base and an ability to implement and critically evaluate emerging treatments.

PSY 05206: Social Psychology 3 s.h.
Prerequisite: PSY 01107

This course examines the psychological, social and cultural factors that shape the social behavior of the individual. It investigates such topics as affiliation, conformity, leadership, group processes; attitude formation and change; intergroup cooperation and conflict. The primary focus is on the individual in social context.

PSY 05501: Intervention Approaches In Psychology And Human Services 3 s.h.

This course provides an overview of major intervention strategies used in diverse settings to address the counseling needs of a variety of client populations. Factors affecting counselor efficacy are discussed. The course covers ethical principles and practice standards in human service intervention, as well as strategies for measuring the effectiveness of intervention approaches as applied to specific problems.

PSY 05502: Fundamentals Of Drug And Alcohol Abuse And Dependency 3 s.h.

This course provides an overview of fundamental issues concerning drug and alcohol use and addiction. Topics covered include psychological theories of addiction, psychopharmacology, and legal and ethical issues in the prevention and treatment of addiction. The role of social context in drug and alcohol abuse prevention and treatment is discussed.

- PSY 05512: Positive Psychology 3 s.h.
Prerequisite: Graduate level standing
 What is a "good life?" What personal qualities and life experiences determine happiness? Are there things we can do that increase satisfaction with life in a meaningful and consistent way? How do people overcome adversity and build hope, strength and courage? In short, what really matters? Positive Psychology is an emerging area of psychology that attempts to scientifically examine these timelines and central questions. Positive Psychology focuses on such topics as happiness, hope, contentment, gratitude, creativity, optimism, values and resilience. This class will examine contemporary theory and research in Positive Psychology, with the goal of exploring how we might build a more satisfying life for ourselves and for others, and ultimately use this knowledge to improve organizations, schools, and other institutions for a healthier community.
- PSY 05610: Social And Cultural Diversity 3 s.h.
 This course will review studies that provide an understanding of the issues and trends in a multicultural and diverse society and their influence on social thinking, social influence, and social relations. It will examine research dealing with the dynamics and impact of socially constructed categories. These categories include culture, ethnicity, nationality, age, gender, sexual orientation, mental and physical characteristics, education, family values, religious and spiritual values, socioeconomic status and unique characteristics of individuals, couples, families, ethnic groups, and communities. The implications of these issues for effective counseling is addressed.
- PSY 05621: Social Issues in Health and Wellness 3 s.h.
Prerequisite: Matriculation into Ph.D. Program in Clinical Psychology
 This course will focus on the ways in which prominent social psychological theories and perspectives have been tested and applied in the context of health, disease, and wellneedd. Topics including cognitive dissonance, social comparison, social perception, social influences, attitudes, communication and persuasion, relationships and social support, coping style, self-efficacy, self-motivation and self-regulations will be examined for their relations with health and wellness. Specific ways in which the broader socio-cultural environment has an impact on health behaviors, physiology, and disese risk will also be explored. The integreatiionn of theroretical and empirical social psychological contributions to health will be emphasized.
- PSY 05651: Interpersonal Theory And Psychotherapy 3 s.h.
 This course is designed to be an overview of interpersonal psychotherapy and theory. The course will include didactic and experiential components, and will focus on developing the skills and knowledge necessary to use interpersonal techniques in a professional context. In addition to these general skills, the course will also focus on the application of these techniques to specific populations of interest within the psychological community.
- PSY 05652: Advanced Seminar In Clinical Practice 3 s.h.
 This advanced seminar in clinical practice is intended as a vehicle for bringing cutting edge information to current and future practitioners engaged in clinical services. The topic(s) covered in a specific section will vary depending upon focus chosen by the faculty member who is directing the class. However, the broad focus of each seminar will be on developing knowledge and skills that directly benefit the students' ability to function as a mental health professional.
- PSY 05700: Social Psychology 3 s.h.
Prerequisite: Matriculation in Ph.D. in Clinical Psychology Program
 Course includes a survey of the field of social psychology with emphasis upon: basic psychological factors affecting social behavior; attitudes; language and communication, society and culture; individual in relation to social groups and organizations, group effectiveness and role behaviors. Emphasis will be placed upon major theories and concepts of social psychology and relationships to other disciplines.
- PSY 06533: Tests And Measurements 3 s.h.
 The use, organization and interpretation of individual and groups standardized tests are studied. Other means of evaluation, such as observations, inventories and use of cumulative records, will be included. Opportunity will be provided for examining and evaluating these various evaluation instruments and techniques.
- PSY 06625: Assessment I: Psychometrics, Evaluation, & Treatment Planning 3 s.h.
Matriculation in the Masters Program in ClinicalMental Health Counseling
- PSY 06626: Assessment II: Assessment Of Career/Vocational Interests, Treatments, & Programs 3 s.h.
Prerequisite: PSY 06625 with B- or above
 This course will introduce students to three unique applications of assessment principals within clinical and counseling contexts. Specifically, students will learn about the use of the assessment process and instruments for the purpose of career and vocational counseling. In addition, students will learn how to design and implement procedures aimed at assessing the effectiveness of their services at an individual (treatments) and organizational (programs) level. Students will also be introduced to ethical and professional issues related to assessment in these contexts, and they will be expected to demonstrate their skills as part of their classroom experience.

Course Descriptions

- PSY 06631: Psychological Testing Of The Preschool Child 3 s.h.
Practice in administration, analysis and evaluation of individual tests with infants and preschool children with emphasis upon such tests as the Gessell Infant Intelligent Scale, Cattell Infant Intelligence Scale, Gessell Developmental Tests, Minnesota Preschool Test and so forth. Tests will be administered under supervision with subsequent reports.
- PSY 07714: Statistics for Clinical Psychology I: Univariate 3 s.h.
Prerequisites: Grade of B- or better in PSY 02. 706 Research Methods
PSY 07.714 Statistics for Clinical Psychology I: Univariate 3S.H. Prerequisites: Grade of B- or better in PSY 02. 706 Research Methods This graduate level course provides an overview of basic statistical analyses frequently used in clinical psychological research. Omnibus and focused hypothesis testing in one factor and multifactor designs using the General Linear Model will be covered. Focus is on the appropriate applications and interpretations of these statistical analyses. This course is restricted to students matriculated into the doctoral program in clinical psychology. Faculty Workload Hours: 3
- PSY 07740: Statistics for Clinical Psychology II: Multivariate and Advanced Statistics 3 s.h.
Prerequisites: Grade of B- or better in PSY 07.714 Statistics for Clinical Psychology I: Univariate
This graduate level course provides an introduction to advanced multivariable statistical analyses frequently used in psychological research, such as canonical correlation analysis, multivariate analysis of variance, multivariate multiple regression, discriminant analysis, path analysis, factor analysis, logistic regression, multidimensional scaling, and cluster analysis. Issues of time-series analysis and meta-analysis are also explored. Focus is on the appropriate applications and interpretations of these statistical analyses in various areas of psychological research, including clinical, cognitive, physiological, and social psychology. This course is restricted to students matriculated into the doctoral program in clinical psychology.
- PSY 07745: Statistics in Clinical Psychology III - Advanced Multivariate 3 s.h.
Prerequisites: PSY 07714 and PSY 07740 and matriculation into the PhD in Clinical Psychology program or other graduate programs, if prerequisites are met, or with Instructor approval.
Psychological research requires measuring many human characteristics (also known as "constructs") that are not observable, such as depression or marital satisfaction. Accurate and reliable measurement is essential to understanding statistical relationships between constructs. This course teaches students the basic principles of measurement theory and how best to assess the reliability and validity of constructs, as well as what statistical models to use to appropriately model measurement error. Topics covered include reliability, validity, classical test theory, item response theory, factor analysis, and structural equation modeling.
- PSY 09209: Child and Adolescent Development 3 s.h.
The content of this course covers the physical, cognitive, perceptual, linguistic, emotional, social, moral and sexual development in humans, from the womb through adolescence. The influence of biological and sociocultural mechanisms underlying development within these domains are also considered.
- PSY 09210: Adolescent Development 3 s.h.
This course studies current theory and practice related to biological, cognitive, psychoanalytic, psychosocial, sexual and moral development in adolescence. Students gain experience in developing beginning levels skills in selection and use of evaluative techniques and in the use of activities appropriate to the various levels of adolescent development. This course is intended for nonmajors and will not fulfill requirements of the Psychology major. Psychology majors must take Lifespan Development (PSY 01308) in order to fulfill the requirements of the major.
- PSY 09218: Lifespan Development 3 s.h.
Prerequisite: PSY 01107
This course provides an overview of human development across the lifespan, including physical, cognitive, social, and personality development. All the major lifespan developmental theories and research will be presented, with heavy emphasis on students' critical thinking about research. This course will cover both normative and atypical development across the lifespan, including the major physical, mental health, and social problems occurring during the life span.
- PSY 09305: Developmental Psychopathology 3 s.h.
Prerequisite(s): PSY 01107 and PSY 09209 or PSY 09218
Using a developmental framework, the student will examine normal and abnormal behavior from infancy through adolescence. Students will learn about the pathways to normal and abnormal behavior, explore the factors that place children at risk for problems as well as the factors that protect children from adversity. Topics will include autism, depression, anxiety, aggression, attentional difficulties, developmental delay, and physical illness.

Course Descriptions

PSY 09511: Child Psychology 3 s.h.

This course is designed to help professional educators and others concerned with facilitating healthful child development to become more aware of the interrelationship of children's needs, potentialities and competencies. Attention is devoted to the physical, social, mental and emotional growth of the child from conception to puberty.

PSY 09512: Developmental Psychology Of Alcohol And Drug Abuse 3 s.h.

This course addresses the psychological issues of drug and alcohol abuse in the context of the developmental psychology of childhood and adolescence. Developmental considerations in prevention and intervention programming are emphasized. The insight of developmental psychology concerning normal developmental processes are integrated with family systems theory.

PSY 09560: Lifespan Development 3 s.h.

This course focuses on the developmental processes across the lifespan. Major theoretical perspectives are presented. Attention is given to physical, cognitive, social and emotional development at each significant developmental periods.

PSY 09595: Introduction To Counseling: Development Of Basic Skills 3 s.h.

This course is a graduate level introduction to the foundation skills necessary for mental health counselors. Thus, there is a minimum expectation of satisfactory understanding from certain core undergraduate areas (e.g., Abnormal Psychology, Personality Theories) and basic experiences with people who have mental illness. This course will cover a wide variety of theoretical and applied topics including, the development of professional identity, observation skills, micro counseling skills and developing a multicultural competence. This course will also review mental status exams, the content areas of the initial intake interview, assessing for suicide and homicide risk, and conceptualizing clients. Students are expected to demonstrate these skills through the use of role plays and videotapes.

PSY 09700: Human Development 3 s.h.

Prerequisite: Matriculation into Ph.D. Program in Clinical Psychology

In this course, students will understand development as a fusion of biological, cognitive, affective, and social aspects of mind and behavior interacting in the context of culture. Students will learn about the theories and methodologies used to study human development across the lifespan from prenatal development through adulthood. The interplay between cognitive, affective, and social development will be emphasized, including such topics as perception, attention, memory, language, problem solving, decision making and interpersonal relationships. This course is restricted to students matriculated into the doctoral program in clinical psychology.

PSY 10315: Physiological Psychology 3 s.h.

Prerequisite: PSY 01107

An introductory course in physiological psychology designed to give the student an understanding of the neural processes mediating behavior. A study of advances in such areas as the neural coding of memory and learning; control of human behavior and emotions through physiological changes; the environment as it affects the nervous system; psychobiology of sex; psychosomatic illness; and instrumentation and techniques for investigating problems in physiological psychology.

PSY 10610: Psychopharmacology And Biological Bases Of Behavior 3 s.h.

This course will provide an understanding of basic neurological mechanisms and how they are effected by psychotropic medications. It includes a description of the functioning of neurotransmitters and their role in the etiology of some mental illnesses. The course will review the major classes of psychotropic medications and their use for specific psychological disorders. The integration of psychotropic medications into best practice treatment plans and case management is discussed.

PSY 10630: BIOLOGICAL BASES OF BEHAVIOR 3 s.h.

Prerequisites: Matriculation into Ph.D. Program in Clinical Psychology

This course examines the structure and function of the nervous system, from the cellular to the behavioral level. Topics will include cell types, neuronal membrane electrical properties, synaptic properties, neurobiology of the senses, control of movement, development of the nervous system, and the effects of the nervous system on learning, memory and other psychological behaviors. Current research and animal models will also be discussed. Students will be expected to become proficient in both the basic biological mechanisms as they affect psychological functioning, and in current research in improving psychological functioning through neural and biological interventions. This course is restricted to students matriculated into the doctoral program in clinical psychology.

PSY 22507: Development And Learning 3 s.h.

This course is an introduction to the basic theories, vocabulary and principles of developmental psychology. Special attention is focused upon the role of environmental and educational factors in development, and the application of learning theory to modify behavior. Age-appropriate behaviors expected of children and adolescents are described.

Course Descriptions

- PSY 22512: Educational Psychology 3 s.h.
The dynamics involved in the process of learning are emphasized. An objective of the course is a consideration of the ways psychology can be of value in facilitating the teaching-learning process. Such topics as formulating objectives, motivation and evaluation of learning are considered.
- PSY 22586: Psychology Of Motivation And Learning 3 s.h.
An intensive study of the basic theories of learning and current research in motivation and learning is emphasized in this course. Stress is placed upon the significance of these theories and investigations for educational practices.
- PSY 22600: Seminar I In Applied Research: School Psychology 3 s.h.
This course will concentrate on the latest developments in the field of educational psychology, emphasizing theoretical and research findings. An introduction to the field of school psychology will also be included. Students will be expected to complete a project to demonstrate scholarly and professional awareness in the field.
- PSY 22601: Seminar II In Applied Research: School Psychology 3 s.h.
This course will concentrate on the latest developments in the field of educational psychology, emphasizing theoretical and research findings. An introduction to the field of school psychology will also be included. Students will be expected to complete a project to demonstrate scholarly and professional awareness in the field.
- PSY 22602: Applied Research: School Psychology 1 s.h.
- ADV 04330: Introduction To Advertising 3 s.h.
Prerequisite(s): Public Relations/Advertising Major and COMP 01112 or HONR 01112 or ENGR 01201
The course provides an overview, including techniques and terminology that are useful in the professional world. Topics include history of advertising, marketing, ethics, law, consumer behavior, print and electronic media, and retail and corporate advertising. The course combines theory of advertising with practical applications.
- ADV 04360: Integrated Marketing Communication 3 s.h.
Prerequisites: PR 06350 and ADV 04330
This course explores the expanded as well as the communication portion of the organization's business and marketing plans. Emphasis is placed on how to translate marketing strategies into a well-defined and seamless communication program directed at all of the organization's publics.
- MAPR 01511: Writing Speeches 1 s.h.
Students will learn how to research the audience, how to locate information and how to write various kinds of speeches. Evaluating the effectiveness of a written speech will be covered.
- MAPR 01522: Persuasion Techniques 1 s.h.
- MAPR 01524: Fundraising And Development 2 s.h.
Students will learn how fundraising and development offices are organized, what research and case studies say about fundraising and development and how to plan and evaluate campaigns.
- MAPR 01528: Communication with Special Publics 1 s.h.
This course will show students how to recognize the characteristics of special publics such as blacks and other minorities, women, senior citizens, youth influentials and the community power structure. Featured will be communication methods and strategies of communicating effectively with these special publics.
- MAPR 01530: Internal Communications In Organizations 1 s.h.
Both lateral and vertical communications will be studied in various organizations. The importance of good internal communications on effective external communications will be highlighted. Ideas, plans and methods of initiating and maintaining an effective internal communications program will be emphasized.
- MAPR 01531: Media Planning And Buying 1 s.h.
Students will learn how to devise a media plan that will most effectively carry their message to the target audiences. They will gain practice identifying audiences, developing a media budget, devising a media work plan and buying media.

Course Descriptions

- MAPR 01533: Crisis Public Relations 1 s.h.
Students will learn how to anticipate crises and how to plan a communications program that works during a crisis. Working with internal and external audiences before, during and after a crisis will be covered.
- MAPR 01534: Small Group Communications 1 s.h.
Addressed in this course will be the definition of small group communication; why to study small group communications; and communication factors such as group size, spatial arrangement in face-to-face groups, status, rank, and power; leadership; group climate; cooperation, competition, and conflict in group climate; and communication networks.
- MAPR 01535: Interpersonal Communications 1 s.h.
Considered in this course will be communication between two people. Models of communications developed by authorities in the field will show how the communications process works. Featured will be the concepts of communications such as the frame-of-reference, empathy, authenticity, interpersonal trust, and feeling content. The course will help students understand some of the communication barriers encountered in day-to-day work.
- MAPR 01536: Public Relations Law And Ethics 1 s.h.
The course will acquaint students with the substance and interpretation of the "Code of Professional Standards for the Practice of Public Relations," which is the official code of the Public Relations Society of America. During the course students will become familiar with the major laws governing broadcasting, publishing and speaking. A key ingredient of the course will be the opportunity for students to develop personal ethical stances about communications and to refine their skills at judging ethically unclear situations in communications.
- MAPR 01537: Contemporary Public Relations Challenges 1 s.h.
This course will mix lecture with seminar discussions on key issues of the day affecting the practice of public relations. Classic problem-solving and decision-making designs will be part of the discussion about the contemporary events. Individual, on-the-job problems from class participants will be discussed and solved in case study fashion. (Using the computer for PR purposes will be stressed.)
- MAPR 01538: Legislative Liaison For Public Relations Practitioners 1 s.h.
From this course students will learn how to identify from government officials and records information that affects organizations; to work effectively with government officials at all levels, local, state and federal; to promote legislation that would be helpful to an organization; and to obtain cooperation from government officials and groups.
- MAPR 01541: Understanding And Writing Grants And Proposals 1 s.h.
Students will learn where to get grants, how proposals are evaluated and how to write and present proposals.
- MAPR 01547: Graduate Strategic Writing 3 s.h.
This course consists of five writing modules with varying credits: MAPR01.506-News writing, MAPR01.507-Tightening Writing and Translating from Jargon to Comfortable Language, MAPR01.509-Writing Leads That Get Attention, MAPR01.510-Writing Reports, Letters and Memos, and MAPR01.513-Feature Writing. Instruction is given in the five modules in journalistic writing and editing. Students will learn how to prepare effective news releases, to edit the way professional writers do, to gain readers' attention by writing effective leads, to write reports, memos and letters that communicate effectively, and to prepare and place feature stories for newspapers, journals and magazines. Description of individual modules is given under each respective number.
- MAPR 01548: Graduate Writing Basics 1 s.h.
In today's fast-action world, you are required to write accurate, hard-hitting communication at a moment's notice. This course provides practical guidelines for students who need to write with speed, precision and power.
- MAPR 01550: Introduction to Graduate Strategic Communication Research 3 s.h.
A study of the research process as it relates to the task of writing a communication thesis. Emphasis will be placed on the four standard, accepted types of research. Students will examine the unique purposes, features, procedures and uses of each research type, using the information as the basis for creating a thesis proposal.
- MAPR 01551: Graduate Strategic Communication Overview 3 s.h.
This is an overview of the relationships between an organization and its publics. Development of understanding among them is stressed. The course presents the theoretical foundation of public relations and outlines techniques of structured communications between an organization and its publics.

Course Descriptions

- MAPR 01553: Graduate Case Studies In Public Relations 1 s.h.
This course reviews and predicts how organizations solve their PR challenges. Through case studies, students evaluate issues, audiences and strategic elements of each situation. Students work through problems in seminar situations and write position papers.
- MAPR 01554: Planning Special Events 1 s.h.
This course will survey the problems and solutions surrounding the staging of special events and workshops in the practice of public relations. events like ground-breaking news conferences, dignitary visits, seminars, anniversary celebrations and many more pose planning and implementation problems for the practitioner. Students will anticipate and solve these problems and have the option to make plans of their own for upcoming events. Included will be budgeting, involving the audience in planning, choosing sites, working with speakers and evaluating the event workshop.
- MAPR 01555: Persuasive And Feature Writing 1 s.h.
Students will learn in this module additional technical skills in modifying opinion through writing. Students will receive a personal checklist of their persuasive writing needs during the course. In addition, students will learn how to prepare and place feature stories for newspapers, journals, and magazines.
- MAPR 01556: Organizational Public Relations Management & Counseling 3 s.h.
This three credit course will acquaint students with many aspects of the public relations profession (or review for some). Students will learn about the composition of PR departments, the steps necessary to manage a public relations department and accepted methods to establish budgets in a public relations shop. Students will be expected to analyze the economic realities surrounding the practice of public relations in a variety of settings. For the first time, there will be a concentration on public relations counseling, media training and rehearsal, and media relations.
- MAPR 01557: Using Electronic Media In Public Relations 2 s.h.
This course will acquaint students with the techniques of producing video for electronic media and its proper use in a public relations program within a given budget. They will become familiar with the different requirements for electronic media production. Students will also study the steps involved in applying this method: choosing appropriate film subjects and film principles, properly conducting the planning of a story and performing the right production practices.
- MAPR 01558: Integrated Marketing Communication 1 s.h.
The relationship of marketing, public relations and advertising will be explored. Marketing, PR and advertising techniques-including cost-effective ways of reaching key audiences-will be discussed, as will positioning, testing and evaluating.
- MAPR 01559: Strategic Public Affairs 3 s.h.
The course examines theory and practice of strategic political communications, including depth study of persuasion campaigns, use of propaganda in public affairs, and the role of communicators in engaging the public in the critical public policy issues.
- MAPR 01560: Public Affairs Overview 3 s.h.
This course is an overview of the ethical and legal means used by public affairs representatives in influencing the political, legislative, and regular process of government. Emphasis is placed on demonstrating strong writing and research skills, as well as developing effective communication plans.
- MAPR 01561: Graduate Strategic Writing II 3 s.h.
A continuation of the graduate PR writing course, this course examines the more demanding writing projects encountered by the PR practitioner. The course polishes writing and editing skills to better prepare students for a professional position. Students will learn creative techniques required to successfully prepare different materials. They will write features for newsletters and magazines and prepare video/film scripts. They will also write and edit persuasive copy for marketing communication material for advertorials, position papers, op-ed pieces and speeches.
- MAPR 01562: Integrated Marketing Communication Online Overview 3 s.h.
This course will familiarize students with the concepts and processes of Integrated Marketing Communication. By examining case studies, students will learn how the different marketing communication elements work together to enhance the marketing function and to achieve maximum impact. Finally, students will obtain a fundamental understanding of how to include IMC as a crucial element in the planning process.

- MAPR 01563: Research, Messaging and Audience Online Analysis 3 s.h.
 Students will study various research methodologies in this course. They will learn to develop measurable research objectives, select appropriate methodologies and analyze data. The course also introduces students to a range of qualitative and quantitative research questions and to the tools for answering them. These include secondary searches; individual and group interviews; media audience measurement; market structure; segmentation and usage studies; strategy, concept and positioning research; syndicated and custom message pre/post tests and tracking studies; and test markets. Students will also develop questionnaires and examine research methods such as personal and telephone interviews, focus panels, mail surveys, probability and quota sampling, and experimental design.
- MAPR 01565: Integrated Marketing Communication and New Media 3 s.h.
- MAPR 01566: Public Affairs Advertising 1 s.h.
 This 5-week module will teach students the basic principles of advertising in the public area. Topics will include using advertising to set the agenda of a public policy debate; how to apply the lessons of product advertising; conditions that enhance the effectiveness of advertising; issue advertising as protected speech; the importance of a good working relationship with advertising agencies; advertising in a crisis; the role of research in advertising; and evaluating the effectiveness of public affairs advertising. The module will also convey real-world examples from practitioners to present to the student a broad understanding of public affairs advertising.
- MAPR 01567: Public Affairs And Labor Communication 1 s.h.
 This 5-week module concentrates on the role public affairs plays in an organization's relationships with its employees and the unions which represent them. Students will explore the relationship between management, unions and labor, and the role of public affairs in those relationships. Topics include: community organizing; employee communications; building and maintaining political support; federal and state regulations regarding employee relations; media relations; the "Managerial Creed;" and the legal aspects of labor/employee communication. Students will gain thorough knowledge by learning about current cases.
- MAPR 01568: Graduate Strategic Visual Communication 3 s.h.
 The ability to conceive, produce and deploy rich visual imagery is now a core requirement for advertising and PR practitioners. To help students prepare for this rapidly evolving field, this class explores how and why visual media have overtaken text-based content. Through practical, hands-on individual experiences and class projects, it provides a framework for understanding the different types of visual media and their participants, choosing the right tools, and devising the strategies to succeed in this new digital era.
- MAPR 01569: Graduate Strategic Case Studies & Public Relations Planning 3 s.h.
 This course reviews and predicts how organizations solve their PR challenges. Through case studies, students evaluate issues, audiences and strategic elements of each situation. Students work through problems in seminar situations and write position papers. Students will learn the classic ways to construct a public relations plan, including writing goals and objectives, establishing campaign themes, and strategies, developing PERT and GANTT charts, specifying plan details and learning how to monitor and evaluate the plan. Students will also learn how to write a proposal, how to identify the real communications problem, and how to counsel management about policy related to the success of the plan.
- MAPR 01575: Independent Study-Public Relations .5 to 6 s.h.
- MAPR 01610: Internship In Public Relations 3 to 6 s.h.
 This course requires on-the-job apprenticeship in a public relations program that involves a wide variety of tasks. The internship is overseen by a public relations professional on the job and by a PR professor.
- MAPR 01620: Strategic Communication Seminar 3 to 6 s.h.
Prerequisites: MAPR 01547 (allows concurrent enrollment), MAPR 01550 (allows concurrent enrollment), and MAPR 01551 (allows concurrent enrollment).
 Each student will be required to develop a major communication project on any phase of educational or corporate communications. The project will display appropriate research procedures and skill in communications. Some seminar sessions will be used to provide additional communication background for students. Students are required to complete both the fall and spring seminars for the program. The fall semester is a prerequisite for the spring semester. The student must have completed or be enrolled in Public Relations Overview (MAPR 01551), Techniques of Communication (MAPR 01547), and Intro to Communications Research (MAPR 01550).

Course Descriptions

- MAPR 06505: Special Topics In Public Relations 1 s.h.
Special topics provide an opportunity for graduate students to explore an emerging issue in the field of public relations in a timely fashion. The course presents an opportunity to study the topic under the guidance of an expert in the particular field or issue.
- MAPR 06515: Online Public Relations 3 s.h.
Public relations has moved to the Internet, and in the process online communication skills have become essential to online and offline public relations practice. Online public relations explores the practical tools necessary for using the internet in public relations and provides a broad overview for creating an online newsroom.
- MAPR 98503: School Public Relations 3 s.h.
This is an overview of the relationships of the school and its various publics. The public character of the school and the need for public understanding of the school are considered. Development of understanding between the school and the community is stressed.
- MAPR 99523: Polls & Surveys 1 s.h.
- PR 05350: Strategic Communication Overview 3 s.h.
Strategic Communication Overview will provide a comprehensive look at the integration of public relations, advertising and marketing communication. The class develops the role of public relations and advertising in the strategic communication environment. It addresses research, public opinion, the media, as well as law and ethics.
- PR 06301: Basic Public Relations Writing 3 s.h.
Basic Public Relations Writing introduces students to the tasks of writing and editing required in a public relations position. Students will learn to write for both print and electronic media, develop their skills in grammar, syntax and usage and learn to copy edit their own work and the work of others.
- PR 06310: Introduction To Public Relations/Advertising Research 3 s.h.
Prerequisites: 60 credits required
The course studies both qualitative and quantitative research methods necessary for success in the fields of public relations and advertising. Emphasis is placed on evaluation of secondary searches, individual and group interviews, media audience measurements, market structure, segmentation and usage studies, and tracking studies.
- PR 06350: Introduction To Public Relations 3 s.h.
Prerequisite(s): Public Relations/Advertising Major and COMP 01112 or HONR 01112 or ENGR 01201
This course explores the history and role of public relations in society. Students explore mass media, persuasion, publicity, radio and television. Students examine special events, crisis management, communication techniques, research and evaluation, communication law and ethics. Basically a theory course, this introduction also applies ideas practically to real clients and organizations.
- PR 99362: Public Opinion 3 s.h.
Prerequisites: PR 06310
This course includes the nature and role of public opinion, the dynamics of public opinion processes and the numerous factors which shape or influence opinion. Students examine the mass media, evaluating their roles as molders and reflectors of public opinion. Major topics that influence public opinion are discussed, including gratifications, agenda setting, knowledge gaps, censorship and propaganda.
- RTF 03270: Film History to 1940 3 s.h.
Prerequisite(s): COMP 01111 and RTF 03275
Students trace the development of motion pictures as an art form from the 1890s to 1941. Representative selections from the various genres are screened, then discussed in terms of art, technique, content and historical perspective, as well as directorial style. Part I is not a prerequisite for Part II; these courses may be taken in any order; students may opt for one or both courses.
- RTF 03271: Film History Since 1940 3 s.h.
Prerequisite: COMP 01111 and COMP 01112
This course is a continuation of RTF 03.270 with emphasis on contemporary genres and implications. Students trace the modern cinema from 1941 to the present. Students may take Part II prior to Part I; although the content is chronological, Part I is not a prerequisite for Part II.

Course Descriptions

- RTF 03275: Applied Media Aesthetics: Sight, Sound And Story 3 s.h.
This course offers students an introduction to the aesthetic concepts as applied directly to radio, television, and film media. Using examples from these media, students will study, discuss, and analyze design and composition elements as they apply to the production process. A basic vocabulary of aesthetic terminology will be assembled and students will be responsible for understanding and applying those terms through various written and visual assignments.
- RTF 03295: Introduction To New Media 3 s.h.
Prerequisite(s): COMP 01111 and COMP 01112 and RTF 03275
Introduction to New Media surveys emerging digital communication and entertainment media and teaches new media from the perspective of the producer. Students will discuss the evolution, social and historical implications, and production of media forms with an emphasis on social networking, user generated and other web media.
- RTF 03393: Screenwriting I: Writing the Short - WI 3 s.h.
Prerequisites: COMP 01111 and COMP 01112
The course covers the basic technical requirements for writing movie scripts and the problems of adapting material to screen and script analysis. By viewing contemporary movies and studying plotting, point-of-view, character creation and dialogue, students learn how a film script is put together and write an original script.
- RTF 03394: New Media Production 3 s.h.
Prerequisite: RTF 03295
This is the second in a sequence of three courses in the Interactive Media specialization. Students will apply content production skills from radio, television, and film to the production of hybrid media. Students work in teams to plan, design, produce, and test multimedia products. Students are expected to demonstrate a high level of professionalism in completing all work on schedule to professional standards and in their interactions.
- RTF 10520: Graduate Audio Production 3 s.h.
Graduate Audio Production teaches the basic concepts of sound as it relates to the medium of radio, television, and film. Through coordinated reading assignments and in-class listening, students will become familiar with various styles of documentary audio production. Students will also study the historical evolution of film sound and music through lectures, viewing, and in-class discussion. Students will be expected to integrate this information into the production of professional audio documentaries and sound design for film.
- RTF 10521: Graduate Documentary Production 3 s.h.
Graduate Documentary Production is a graduate course where students lacking will gain knowledge and skills to produce documentary projects. Students will explore the culture of the media professional through a series of group assignments that stress productive collaboration, objective criticism and analysis, professional ethics, and time management. Students will develop competencies in the processes and equipment of television field production, experiencing all phases of pre-production, production, and post-production as they research, write, shoot and edit creative projects.
- RTF 10522: Graduate Film Production 3 s.h.
Graduate Film Production is a graduate course where students are introduced to the technological, organizational and aesthetic production competencies for shooting narrative films using color, lights and sound. Readings will emphasize cinematic visual storytelling conventions. Homework assignments will emphasize preproduction, previsualization and production coordination of short narrative films. Students will produce a series of production assignments culminating in the production of a short narrative film.
- RTF 10523: Graduate Screenwriting 3 s.h.
Graduate Screenwriting is an intensive writing workshop where students learn the basics of dramatic writing for the screen. The first half of the course is built around screenings, lectures, discussions and exercises where students explore the fundamentals of daily writing, dramatic structure, visual writing, characterization, dialog and proper screenplay formatting. Film analysis will focus on classic and contemporary shorts and feature films. The second half of the semester focuses on the development, and re-writing of a narrative short film based on an incident from a longer feature screenplay outline.
- EDTC 33510: Emerging Technology Tools and the Curriculum 3 s.h.
The philosophical, psychological, sociological and educational implications of the computer and its impact on the public school curriculum are explored. Current relationships between theory and practice, along with future technologies, are examined.

EDTC 33531: Coding and Logical Thinking to Support Learning 3 s.h.

The course prepares educators to focus on exploring rationales, resources, and strategies of incorporating coding, programming, and logical thinking in P-12 classrooms. Educators will not only become familiar with the basics of coding and logical thinking, but they will also research case studies and evaluate best practices, available resources, and curriculum. The content of this graduate-level course will focus on the development of the educators' understanding of ways to effectively use best-practice teaching strategies with respect to coding, programming, and logical thinking so as to support P-12 learning.

EDTC 33540: Developing Online Resources for P-12 Students 3 s.h.

The course prepares educators to develop online lessons and resources for P-12 students in classroom and online learning environments. Participants will learn the theory and practice of P-12 online teaching and learning and explore effective strategies to develop useful web-based lessons and resources. Emphasis is placed on understanding the trend of P-12 online education, selecting effective tools for online instruction, engaging students through collaborative activities, and developing and evaluating online resources. Participants will become familiar with technological tools for designing online resources and develop knowledge of online resources for teaching and student use.

EDTC 33550: Learning through Gamification 3 s.h.

The course prepares educators to focus on the development of the educators' understanding of ways to effectively use gamification and digital game-based learning in the P-12 classroom. In addition, educators will apply gamification principles and best practice strategies for digital games in their teaching as exemplified by a unit they create as well as an educational digital game that they will design and plan. Educators will also advocate for the integration of gamification into other subjects within their educational organization. This course will benefit teachers and educators who are seeking to implement gamification and digital gaming to support P-12 student learning in their own classrooms and educational institutions.

EDTC 33561: Leading for Effective Educational Technology 3 s.h.

The content of this graduate-level course will focus on developing the educators' understanding of educational technology leadership in P-12 schools. Building upon past research on strategies, theories, and frameworks that best support learning through educational technology leadership, the educators will create work products that can be used to advocate for effective educational technology in their own P-12 educational organization. Major topics of this course include the following: navigating change, effective infusion of educational technology, and best practices of educational technology leadership.

EDTC 33570: Researching and Analyzing Educational Technology 3 s.h.

The course is designed to induct teachers into educational technology research. The primary goal of this course is to introduce instructional system design (ISD) theories and frameworks and the types of educational technology research in P-12 and higher education settings. Participants will review the instructional system design processes and explore both qualitative and quantitative research studies of educational technology in P-12 and higher education settings. Participants will develop their skills in analyzing and summarizing literature in educational technology.

EDTC 33580: Introduction To Educational Technology 3 s.h.

This course is intended for educators at all levels who place a high value on successful teaching and learning. The purpose of the course is to help educators incorporate media and technologies for learning into their repertoire--to use them as learning tools. The course will draw examples from elementary, secondary, and postsecondary education as well as corporate training and development. This course will provide the initial opportunities necessary to begin technology infusion in the school curriculum.

EDTC 33584: Digital Citizenship in 21st Century Schools 3 s.h.

The primary objective of this course is to provide a comprehensive introduction to desktop publishing using desktop publishing programs that can be used in the educational setting. This course provides a hands-on approach to desktop publishing using both high-end and low-end publishing programs. The experiences in this course will help students to become more involved with the visual impact of their ideas on the readers. Students will learn to integrate ideas with words, typestyle, graphics and other features involved in the production of publications with a high level of visual impact.

EDTC 33585: Internet In The Classroom 3 s.h.

Prerequisites: EDTC 33.580

This course provides an introduction to the Internet emphasizing its value in teaching and learning. In this course students will discover how to use some basic Internet navigation programs to locate and gather information from the Internet. Lessons will include finding and subscribing to listserv lists in education, using ERIC online, accessing and employing web search engines., locating and downloading files, handling files with e-mail, discovering and capturing multimedia elements on the web, developing a personal web page, and analyzing the implication of the Internet for lifelong learning in education.

Course Descriptions

EDTC 33600: Seminar in Educational Technology 3 s.h.

The purpose of this course is to introduce educators to current research trends and topics in educational technology through literature review, discussions, and case studies. The course focuses on building a knowledge base in trendy topics, concepts, and technologies that drive educational change and innovation in P-12 education. Participants will explore important developments of educational technology, trends of technology adoption, as well as challenges and potential solutions of implementing advanced technologies in teaching and learning. In addition, participants will become familiar with the major sources of educational technology research and improve their analytical and critical thinking skills.

EDUC 01282: Teaching In Learning Communities II-Art 3 s.h.

Prerequisite: C- or better in EDUC 01270

Teaching in Learning Communities II Art furthers the understanding of successful and caring learning communities begun in Learning Communities I. A field component is required.

EDUC 01284: Teaching In Learning Communities II-Music 3 s.h.

Prerequisite: C- or better in EDUC 01270

Teaching in learning Communities II Music, is specifically designed to continue the development of an understanding of successful and caring learning communities begun in the Teaching in Learning Communities I course and apply it specifically to the music classroom as a "learning community." This course will be music education specific to develop a broad and deep knowledge of music education processes throughout grades K-12 in music settings. A field component is part of this course.

SECD 03330: Practicum In Teaching And Learning A 1 s.h.

Prerequisite: SMED 01282; Corequisite: SECD 31350

Practicum in Teaching and Learning A is a co-requisite with Teaching and Learning Mathematics A, Teaching and Learning English/Language Arts A, Teaching and Learning Social Studies A, or Teaching and Learning Foreign Language A, Teaching and Learning Science A. The course will consist of general opening session, a general closing session, sessions at a cooperating public middle school, and visits to government agencies, commercial sites, community sites, campus-based laboratories (when appropriate) and/or museums.

SECD 03332: Practicum in Teaching and Learning B 1 s.h.

Prerequisite: SECD 03330; Corequisite: SMED 31360

Practicum in Teaching and Learning B is a co-requisite with Teaching and Learning Mathematics B, Teaching and Learning English/Language Arts B, Teaching and Learning Social Studies B, or Teaching and Learning Foreign Language B, Teaching and Learning Science. The course will consist of a general opening session, a general closing session, sessions at a cooperating public high school, and visits to governmental agencies, commercial sites, community sites, campus-based laboratories (when appropriate) and/or museums.

SMED 31350: Elementary Art Methods: Teaching and Learning Art A 3 s.h.

Prerequisites: C- or better in EDUC 01282 and READ 30319 and SMED 33420 Corequisite: SECD 03330

This course prepares pre-service teachers for instructing preschool, elementary and middle school students in the visual arts. Through laboratory and clinical field experiences learners will apply theories of artistic learning to authentic arts classroom situations while under faculty supervision. Assignments involve the learner in examining art curriculums, a variety of assessment strategies used by art teachers in the classroom, and approaches for critiquing student works and aesthetic enrichment. The learner will be required to prepare art lessons and units of study that demonstrate: a working knowledge of artistic concepts and skills, an understanding of the artistic development of children, and considerations for adaptive learning in the arts for special populations.

SMED 31360: Secondary Art Methods: Teaching and Learning Art B 3 s.h.

Prerequisites: ELEM 02270 and ELEM 02282

This course prepares pre-service teachers for instructing high school students in the visual arts. Through laboratory and clinical field experiences learners will apply theories of artistic learning to authentic arts classroom situations while under faculty supervision. Assignments involve the learner in examining high school art curriculums, a variety of assessment strategies used by art teachers in the classroom, and approaches for critiquing student works and aesthetic enrichment. The learner will be required to prepare art lessons and units of study that demonstrate: a working knowledge of artistic concepts and skills, an understanding of the artistic development of the adolescent, and considerations for adaptive learning in the arts for special populations.

SMED 31450: Clinical Practice II: Elementary and Secondary Art 10 s.h.

Prerequisite: SMED 31351 Corequisite(s): SMED 31451 and SECD 03350

This senior level course provides the teacher education candidate with opportunities to demonstrate the professional knowledge, pedagogic skills and dispositions developed in preservice professional course work. The student teaching experience is a supervised, full-time activity conducted in public elementary, middle and secondary art classrooms. The experience requires demonstrated mastery of artistic content, lesson planning, instructional techniques in the arts, student assessment and classroom management. Admission to this course requires completion of professional education courses and

near completion of academic major courses. A minimum grade point average of 3.0 in major and professional education courses is required.

SMED 31451: Clinical Practice II: Seminar for Art Education 1 s.h.
Prerequisite: SMED 31351 Corequisite(s): SMED 31450 and SECD 03350

This capstone seminar for art teacher candidates provides an opportunity to establish structural knowledge apriori that will enable the integration of applied art classroom experiences during the subsequent weeks of student teaching and; creates a forum for students to process new experiences in the elementary, middle and secondary schools with art professionals who share an understanding of the context in the art classroom. Interviewing skills and a professional portfolio wil be developed during this course.

SMED 32411: Clinical Practice In Music 10 s.h.
Corequisites: SECD 03350 and SMED 32412

This senior level course provides the teacher education candidate with opportunities to demonstrate the professional knowledge, pedagogic skills and problem-solving ability developed in preservice, professional course work. The student teaching experience is a supervised, full-time activity conducted off-campus in a public secondary school classroom. The experience requires demonstrated proficiency in lesson planning and evaluation, instructional techniques, student assessment and classroom management. Admission to student teaching requires near completion of academic major, minimum grade point average of 3.0 in major and recommendations by major field academic department and teacher education faculty.

SMED 32412: Clinical Practice Seminar In Music 1 s.h.
Corequisites: SECD 03350

This capstone seminar for music student teachers provides an opportunity to establish structural knowledge apriori that will enable the integration of applied music classroom experiences during the subsequent weeks of student teaching, and creates a forum for students to process their new experiences in the schools with music professionals who share the context for the music classroom.

SMED 33510: Computers And The Curriculum 3 s.h.
 The philosophical, psychological, sociological and educational implications of the computer and its impact on the public school curriculum are explored. Current relationships between theory and practice, along with future technologies, are examined.

SMED 33600: Problems In Mathematics Education I 3 s.h.
 Investigates recent developments and relevant research in mathematics education. The student will determine a problem and investigate the problem as a project. The project must deal with a problem in mathematics, mathematics education, or computer science education. This project may be local or national in scope.

SMED 33601: Problems In Mathematics Education II 3 s.h.
 Investigates recent developments and relevant research in mathematics education. The student will determine a problem and investigate the problem as a project. The project must deal with a problem in mathematics, mathematics education, or computer science education. This project may be local or national in scope.

STEM 60501: STEM: Teaching & Research Methods I 3 s.h.
Prerequisite(s): Matriculation in the MA in STEM Education Corequisite(s): STEM 60510 and READ 30520

{STEM 60501}: STEM Teaching & Research Methods I 3 sh Prerequisite: Matriculation in the MA in STEM Education Corequisites: Teaching STEM in Diverse Settings (STEM 60510) and READ 30520: Content Area Literacy This is the first course in the 3-course STEM methods sequence for candidates in the Master of Arts in STEM Education program. Through integrated STEM coursework, candidates will focus on learning how to make content explicit; eliciting and interpret students' thinking; engage in strategic relationship-building conversations with students; analyze instruction for the purpose of improving it; and communicate with other professionals. Faculty workload: 3 sh

STEM 60502: STEM: Teaching & Research Methods II: Mathematics 5 s.h.
Prerequisite(s): B- or higher in: STEM 60501, STEM 60510, and READ 30520

This is the second course in the 3-course STEM methods sequence for candidates in the Mathematics specialization in the Master of Arts in STEM Education program. Grounded in national and state mathematics standards, the course introduces teaching models that support good mathematics teaching practices. Course activities and assignment are directly connected to the co-requisite resident experiences. The course will help prepare pre-service mathematics teachers to develop STEM pedagogy in the teaching of mathematics. This course is offered annually during the fall semester.

Course Descriptions

STEM 60503: STEM: Teaching & Research Methods III: Mathematics 6 s.h.
Prerequisites B- or higher in STEM 60501, STEM 60510, READ 30520 *Co-requisites*: STEM 60512

This is the final course in the 3-course STEM methods sequence for candidates in the Mathematics Specialization in the Master of Arts in STEM Education program. Grounded in relevant research in mathematics and STEM education with implications for teaching practice and national and state mathematics standards, the course continues to build on teaching models that support good mathematics teaching practices. In addition, this course explores contemporary issues in mathematics and STEM education. Course activities and assignments are directly connected to the co-requisite residency experiences. This course is offered annually during the Spring semester.

STEM 60504: Professional Seminar for STEM Educators 3 s.h.
Prerequisite(s): B- or higher in STEM 60513 and STEM 60503

This is the capstone course in the MA in STEM Education and will prepare candidates for their teaching positions by focusing on issues critical to new teachers. The course is designed to support candidates in their final transition from teacher candidate to teacher. Topics include understanding school climate, developing a professional development plan, developing a plan for communicating with families, planning for the first six weeks (or unit) of school, and preparing for a substitute teacher.

STEM 60510: Teaching STEM in Diverse Settings 3 s.h.
Prerequisite(s): Matriculation in the MA in STEM Education *Corequisite(s)*: STEM 60501, READ 30520

This course will enable STEM Education candidates to gain a multifaceted understanding of the individual and institutional elements that impact student achievement in STEM. Candidates will investigate the role that gender, SES, race, ethnicity, home language, religion, and other identity-based aspects shape school experiences, learning, and achievement in STEM. Candidates will then learn about specific approaches and instructional practices that they can use in the classroom to promote learning for nonmainstream students, including teaching academic language, differentiating instruction and assessments, and supporting home, community and school partnerships.

STEM 60512: STEM: Education Residency I 1 s.h.
Prerequisite(s): B- or higher in: STEM 60501, STEM 60510; and READ 30520

This course serves as the first semester of the yearlong teacher residency required for candidates in the MA in STEM Education. Each resident is placed in a middle or high school and attends that placement 3 full days per week during the Fall semester. Using both Rowan and placement school district measures of teaching effectiveness, supervisors will evaluate residents on requires demonstrated mastery of subject area content, lesson planning, and multiple instructional strategies to meet varied student needs and demonstrated ability to assess learner progress and modify instruction accordingly, manage all aspects of classroom activity, and work collaboratively with all instructional, administrative, parental, and community members of the classroom and school community.

STEM 60513: STEM: Education Residency II 3 s.h.
Prerequisite(s): B- or higher in: STEM 60502, STEM 60512 and SELN 60576

This is the second of the two field experiences required for candidates in the MA in STEM Education. Continuing in their field placement from STEM Education Residency I, candidates will attend their field placements 4 full days per week during the Spring semester. Using both Rowan and placement school district measures of teaching effectiveness, supervisors will evaluate residents on requires demonstrated mastery of subject area content, lesson planning, and multiple instructional strategies to meet varied student needs and demonstrated ability to assess learner progress and modify instruction accordingly, manage all aspects of classroom activity, and work collaboratively with all instructional, administrative, parental, and community members of the classroom and school community. The course will run from January through June to enable candidates to engage in all end-of-year activities at their residency sites.

STEM 60522: STEM: Teaching & Research Methods II: Science 5 s.h.
Prerequisite: STEM 60501 and READ 30520 and STEM 60510; *Co-requisite*: STEM 60512 and SELN 60576

This is the second course in the 3-course STEM methods sequence for candidates in the Science track in the Master of Arts in STEM Education program. Grounded in national and state science standards, the course introduces teaching models that support good science teaching practices. Course activities and assignments are directly connected to the co-requisite residency experiences. The courses will help prepare pre-service science teachers to develop STEM pedagogy in the teaching of science. This course is offered annually during the Fall semester.

STEM 60523: STEM: Teaching & Research Methods III: Science 6 s.h.
Prerequisites: B- or higher in STEM 60522 and STEM 60512 and SELN 60576; *Corequisite*: STEM 60513

This is the final course in the 3-course STEM methods sequence for candidates in the Science Track in the Master of Arts in STEM Education program. Grounded in relevant research in science and course continues to build on teaching models that support good science teaching practices. In addition, this course explores contemporary issues in science and STEM education. Course activities and assignments are directly connected to the co-requisite residency experiences. This course is offered annually during the Spring semester.

Course Descriptions

ANTH 02202: Introduction To Cultural Anthropology 3 s.h.
This course presents cultural anthropology as a coherent system of data and theory designed to explain the variety of human group behavior, giving special emphasis to the structure and function of non-western cultures.

ANTH 02203: Introduction To Archeology 3 s.h.
This course covers the rudiments of archeological field techniques, methods of analysis and dating methods.

ANTH 02221: Human Variation 3 s.h.
In this course, the genetic, immunological, anatomical and physiological variation among modern populations of humans across the globe is examined. The course will enable students to explain human biological adaptation to the biocultural environments in which they live, as well as to understand environmental influences on the human life cycle such as on fertility, growth, and longevity. No prerequisites

ANTH 02250: Introduction To Anthropological Linguistics 3 s.h.
Students in this interdisciplinary course will engage in the scientific study of language with particular reference to the relationships among the languages, thoughts, and cultures of speech communities living all over the world, including within the United States, France, India, Canada, Spain, Japan and Peru, among others. Additional course topics include the process of human language acquisition, structures of human language, bilingualism and the ways in which race, class, gender, and other social characteristics may be displayed through the use of language. This course is offered every other year, beginning in 2009.

ANTH 02321: Cultural Ecology 3 s.h.
Prerequisites: ANTH 02202
This course examines the relation of human groups to their environments as mediated by culture. It emphasizes the interaction of significant variables in the natural habitat, technology, and social institutions. This course may not be offered annually.

ANTH 02510: Qualitative Research 3 s.h.
This course introduces students to methods and theories of qualitative analysis in social science research with emphasis upon contemporary understandings of ethics in the conduct of ethnographic research. Students will learn to use qualitative methodologies in needs assessment, program development, and exploratory and mixed methods research projects in fields including anthropology, criminology & criminal justice, education, economics, health science, legal studies, political science, and sociology.

DPEM 00280: Global Catastrophes 3 s.h.
This course examines the impact of natural and technological disasters around the globe from a cross-cultural interdisciplinary perspective, including hurricanes, droughts, disease outbreaks, nuclear disasters, earthquakes, etc. The course will focus on global, national, regional, and local patterns of development, examining the social, geographical, and cultural factors that put people differentially at risk before, during, and after disasters. Using a case study approach, students will explore how vulnerable social groups are affected by and cope with hazardous conditions and events, as well as study the capacities of these groups that foster resilience.

DPEM 00311: Incident Command: Theory & Practice 3 s.h.
Incident Command System (ICS) organization is at the heart of emergency management. Following the National Incident Management System (NIMS), this course will focus on ICS fundamentals, incident/event assessment, unified command structures, incident resource management, planning process, demobilization, transfer of command, and close out. The National Incident Management System (NIMS) is a critical component in managing an emergency incident. Furthermore, this course will emphasize the different stages in which the Incident Command System (ICS) can expand and retract depending on the complexity of the incident, recognize the importance of an effective management system, and give the students the ability to recognize, exercise, and understand the various components of the ICS system.

DPEM 00321: Humanitarian Response: Evacuation & Shelter Management 3 s.h.
Disasters, crisis and civil unrest pose chronic threats to human security. Such events stretch governments' capacity and diminish the effectiveness of existing systems to offer humanitarian assistance and the potential of new technologies to transform humanitarian response. The course will highlight evacuation processes and shelter management across multiple contexts including: immediate crisis, short-term/long-term sheltering, special needs sheltering, medical sheltering, and refugee sheltering. This course is an in-depth analysis of the complex ethical and resource issues along with the management skills needed to engage in humanitarian work across a variety of settings. The course will focus on "real-world" scenarios that arise in the field.

DPEM 00391: Natural & Technological Hazards: Mitigation & Response 3 s.h.

Emergency management, at its core, encompasses the recognition and management of natural disasters, technological disasters, and Na-Tech (hybrid) disasters. This course examines different types of natural hazards and integrates perspectives on risk, vulnerability, resilience, and mitigation planning through an examination of natural and technological hazards including earthquakes, tsunamis, volcanoes, floods, landslides, hurricanes, tornadoes, wildfires, climate change, and a host of technological and human-induced hazards. Moreover, the class underscores the basic tenets of emergency management as a set of diverse responses to various emergencies from the federal, state, and local perspectives, the management of mass casualties, and ways to rebuild more resilient communities following a disaster.

DPEM 00550: Disaster Policy and Legal Environment in Emergency Management 3 s.h.

This course examines the complex framework of political and social policy issues related to addressing natural, technological and terrorism disasters. Federal and state-related policies and legal considerations at the mitigation, preparation, response, and recovery stages of the disaster cycle will be emphasized.

DPEM 00600: Public Budgeting and Finance for Emergency Managers 3 s.h.

This course focuses on government fiscal management duties as they relate to emergency management and emergency services administration: the area generally known as public finance or fiscal administration including public economics and policy, budgeting, revenue policy and taxation, financial management, and politics. Key to this course will be the fiscal administration of disasters and crisis at every phase of the disaster cycle from planning to recovery. Students are exposed to departmental budgeting, revenue structures and tax administration, financial risk management, and government and corporate grants and grants administration.

DPEM 00610: Advanced Exercise Design and Evaluation 3 s.h.

This course focuses on designing and implementing successful disaster exercise programs based on The National Preparedness Goal and real-world events. The process of designing exercises is explored in depth, and methods of conducting and evaluating exercises are discussed and analyzed. Students will participate in developing, conducting and evaluating an emergency preparedness tabletop exercise and will gain an understanding of computer-assisted exercises. Critical issues examined include: coordination, business recovery, damage assessment, hazard vulnerability analysis, risk management, and agency interaction.

DPEM 00645: Advanced Incident Command: Leadership and Ethics 3 s.h.

This course will highlight leadership theory as it relates to incident command structures. The course will follow the National Incident Management System (NIMS) structure to include incident/event assessment, unified command structures, incident resource management, planning process, demobilization, transfer of command, and close out from a leadership perspective as well as ethical considerations.

DPEM 43300: Bioterrorism and Weapons of Mass Destruction 3 s.h.

Prerequisite: DPEM 00101

This introductory course provides an overview of the different agents of biological, chemical and nuclear weapons of mass destruction. The intelligence preparation for vulnerability analyses from nuclear, biological and chemical weapons including low-level radiation, depleted uranium, toxic industrial chemical concerns and vulnerability reduction measures that can be implemented for population protection are also addressed.

DPEM 43355: Emergency Exercises-Design, Implementation and Evaluation 3 s.h.

Prerequisite(s): DPEM 43101

This course provides insight into the tasks, roles and responsibilities required to design and conduct an emergency management exercise that is a part of a long-term, carefully constructed plan in which exercises help the community prepare for disasters. Students will use a community needs assessment to develop the case for exercises, design an exercise, and outline an evaluation plan aimed at improving competence in all emergency functions. Students will also be introduced to the concept of a comprehensive exercise program used to improve on the four phases of emergency management. The course instruction will follow and meet the guidelines established by the Federal Emergency Management Agency exercise design and evaluation courses and the Department of Homeland Security Exercise and Evaluation Program.

DPEM 43395: Emergency Operations and Business Continuity 3 s.h.

Prerequisite(s): DPEM 00101 and DPEM 00400 or Permission of Instructor

This course provides a step-by-step approach to the development of a comprehensive emergency/disaster/crisis management plan for organizations (e.g. manufacturing companies, corporate offices, retailers, utilities, government agencies, or any organization where people work or gather). By analyzing how organizations prepare for, respond to, and recover from an emergency/crisis (e.g., severe winter storm) or more localized (e.g., chemical spill, building fire), this course emphasizes collaborative processes, applied methodologies used to plan and recover systems and processes when faced with various types of disaster and crisis recovery scenarios that impact communities, businesses and organizations as they seek to continue their operations. Finally, the course will emphasize how disaster preparedness directly correlates to the ability to continue organizational operations.

Course Descriptions

DPEM 43420: Risk Analysis for Disaster Preparedness and Homeland Security 3 s.h.
Prerequisite(s): DPEM 43101

This course provides an analysis of vulnerability assessment as the foundation for effective hazard mitigation by introducing and explaining various methodologies to carry out the process of vulnerability assessment. Moreover, this course will introduce students to (1) material in the risk communication/risk perception literature; (2) basic modeling techniques in quantitative risk assessment; (3) a risk management framework suitable for quantitative risk modeling and risk communication, and (4) case studies related to technological hazards and natural hazards.

DPEM 43495: Internship in Disaster Preparedness and Emergency Management 3 to 6 s.h.
Prerequisite(s): DPEM 43101 and DPEM 43400 or Permission of Instructor

This course is designed to provide students with an experience in the profession of emergency management, homeland security and disaster preparedness beyond that of the classroom.

NOTE: Additional placement requirements such as background checks and fingerprinting may be required.

HSRV 01100: Introduction to Human Services 3 s.h.
Prerequisite: BA in Human Services Majors

An interdisciplinary orientation to major Human Services agencies and institutions in this region, including social work, education, corrections, substance abuse, child welfare, mental health, recreation, geriatrics, etc. Participants will study the roles and functions of professionals in these types of Human Services careers.

HSRV 01320: Applied Ethics in Human Services 3 s.h.

Applied Ethics in Human Services provides an in depth analysis of human services ethics, application of the National Organization of Human Services (NOHS) Code of Ethics, and concepts and dilemmas specific to helping relationships. From a foundation in multicultural values, the course investigates the issues of responsible practice through critical analysis and discussion. The student will apply decision making skills and critical analysis to professional situations where standards conflict. Topics include: confidentiality, duty to warn, client rights, dual relationships, competence, multi-cultural issues, sanity, malpractice and expert testimony.

HSRV 01351: HSRV 01351: Field Experience for Human Services I 3 or 6 s.h.
Prerequisite(s): HSRV 01100, HSRV 01320, and EITHER SOC 08120 or PSY 01107

This course provides students with the opportunity to be engaged in a field experience which will require them to apply the knowledge they have gained from their previous classes focused on human services course content, theory, and research methods. Students are required to take the course, followed by the Field Experience II course, over their senior year, three credit hours during the fall semester and three credit hours during the spring semester. Both courses are primarily aimed at an academic objective: applying theory to experience. This is accomplished by having each student conduct a research exercise while working at an internship within a selected agency in the community, and by having students react to fellow students' research within the classroom setting.

HSRV 01400: Senior Seminar in Human Services 3 s.h.
Prerequisite: senior standing and completion of core requirements.

HSRV 01400: Senior Seminar in Human Services - WI Senior Seminar constitutes the capstone experience for students majoring in Human Services and represents the culminating exit course for students. This course is a writing intensive experience designed to help students integrate their classroom and field experience into a coherent sense of human services as a profession as well as a sense of the student's personal commitment to the values and ethics of the profession. As a culminating experience, this course is based on a portfolio created from the experience the student has accrued during his/her participation in both the academic and experiential components of the major. Prerequisite: senior standing and completion of core requirements

HSRV 08310: Research Methods for Human Services 3 s.h.
Prerequisites: HSRV 0110, either STAT 02100 or STAT 02260 AND EITHER SOC 08120 or PSY 01107

This course introduces the student to the scientific methods used in the social sciences, the relationship between theory and methodologies of data collection and analysis, the rudimentaries of basic types of data analysis and interpretation. Given the applied nature of the human services degree, particular emphasis is placed on qualitative research methods and analyses. This course is offered annually.

SOC 08120: Introduction To Sociology 3 s.h.

This course analyzes the characteristics of social organization and focuses on the study of social relationships and interaction. It examines the social basis of behavior patterns, the nature of social problems and the possibilities for social change. (Required for Sociology majors)

Course Descriptions

- SOC 08121: Introduction to Sociology for Premed Students 3 s.h.
This course provides students with a general understanding of the theoretical, conceptual, and methodological approaches to studying people in groups, institutions, societies and interpersonal interaction. It examines some of the realities of everyday life and critically analyzes perceptions of these social phenomena. Special attention is given to understanding social phenomena with particular relevance to health and medicine, as well as a wide range of other social arenas.
- SOC 08221: Social Problems 3 s.h.
This course examines major social problems in the society as a part of the ongoing social process, with particular reference to their economic, political and other social roots. Topics covered can include such areas as mental illness, poverty, structured inequality, various forms of addiction, war, racism and crime.
- SOC 08223: Sociology Of Social Welfare 3 s.h.
Prerequisite: SOC 08120
This course examines the socio-historical development of social welfare, focusing upon changes in the theory and practice of social welfare in American and other societies. This course may not be offered annually.
- SOC 08230: Sociology Of Minority Groups 3 s.h.
Prerequisite: SOC 08120
This course analyzes the nature of the relationships among ethnic, racial and other groupings in our society. It examines and tests sociological theories by the study of specific past and present minority group situations.
- SOC 08323: The Sociology Of Social Work 3 s.h.
Prerequisites: SOC 08120 and SOC 08223
This course examines the socio-historical development of social work, giving attention to the processes of casework, group work and community organization as well as aspects of social work as a profession. This course may not be offered annually.
- SOC 08325: Deviant Behavior And Social Control - WI 3 s.h.
Prerequisite: SOC 08120
This course explores the major theoretical and research issues in the study of deviant behavior. Then, drawing on a wide variety of types of deviant behavior, the course studies three levels of social reality: the interpersonal, the organizational and the structural. The course seeks to place deviant behavior within the context of traditional social processes and structures. Writing Intensive (WI)
- SOC 08326: Socialization of the Child Through Adolescence - WI 3 s.h.
Prerequisites: SOC 08120 or SOC 08220
This course focuses upon the processes and social forces which facilitate the ways in which individuals are prepared to enter various groups within the life cycle. Writing Intensive (WI)
- SOC 08328: Sociology of Disasters and Crisis 3 s.h.
This course explores disasters and emergency response via a sociological lens and examines the need to systematically understand the social impacts of such tragic events. Participants will learn how to be better prepared to function as an effective member of their community to enhance the chances of improving preparedness, mitigation, and response to possible natural or technological hazards. Furthermore, this course will include discussions of disaster types, individual and collective vulnerabilities of various populations to disasters, disaster-related organization and social policies, issues of disaster preparedness, the media and disaster response, and challenges/opportunities of disaster recovery and prevention.
- SOC 08331: Classical Sociological Theory 3 s.h.
Prerequisite: SOC 08120
This course studies the historical and conceptual development of the major schools of thought within the "sociological tradition." It emphasizes an understanding of the nature of theory and systems of theory, the application of theory, the problems inherent in theorizing about society and social life and the relations between sociological theory and research. (Required for sociology majors)
- SOC 08332: Contemporary Sociological Theory 3 s.h.
Prerequisites: SOC 08120
Contemporary Sociological Theory covers sociological theory developed in recent times. Contemporary Sociological Theory examines the state of the field in the twentieth and twenty-first centuries, focusing on theoretical issues and frameworks that have come to define sociology, its research and methods. It will include consideration of the Parsonian structural functionalism of the 1950s, the critique of Positivism that emerged during the 1960s, and the fragmentation of the field into the many current perspectives and approaches.

Course Descriptions

- SOC 08339: Sociological Practice 3 s.h.
Prerequisites: SOC 08120
This course focuses on using sociological theories and concepts, research methods, and ethical decision-making processes to solve problems. Sociological practice occurs at all levels from the individual to societal. The course links the student to a variety of career pathways and occupational settings, including mental health, rehabilitation, work in prisons, and youth and family services.
- SOC 08353: Sociology of Complex Organizations 3 s.h.
Prerequisite: SOC 08120
This course discusses the major theories and research in complex and formal organizations, giving special attention to a variety of organizational types, including industrial, service and non-profit. It emphasizes examining varying organization types with respect to their size, structure, environments and their dynamics of innovation and change.
- SOC 08375: Sociological Research Methods 3 s.h.
Prerequisite: SOC 08120
This course introduces the student to the scientific methods used in the social sciences, the relationship between sociological theory and methodologies of data collection and analysis, the rudimentaries of basic types of data analysis and interpretation. Students will learn to read and summarize basic scientific reports, to critically analyze and evaluate reported research findings in the social sciences, and to recognize ethical concerns associated with sociological research. (Required for Sociology majors)
- SOC 08376: Social Statistics 3 s.h.
Prerequisites: SOC 08120
This course familiarizes the student with the basics in elementary statistical methods used in the social sciences and the uses and misuses of statistics for various purposes. The student will learn to calculate and understand the proper use of basic statistics commonly used in the social sciences. (Required for Sociology majors)
- SOC 08399: Sociology of the Holocaust - WI 3 s.h.
Prerequisite: SOC 08120
This course primarily deals with structural and experiential dimensions of the genocidal process affecting the European Jews, their ethnicity, culture and religious communality after 1933. Gypsies, Jehovah's Witnesses, prisoners of conscience, Russian prisoners of war, the Polish intelligentsia, who with the Jews, became a subject of Nazi persecution are also among those remembered. The Holocaust or shoah will provide a model for compassionate insight into the experience of other persecuted ethnic and religious minorities or any who suffer disadvantage due to long-standing discrimination, such as women and homosexuals. Special emphasis will be given to understanding the interpersonal processes which are part of survival and transcendence of situations where we find society against the self. Writing Intensive (WI)
- SOC 08401: Human Service Organizations 3 s.h.
Prerequisite: SOC 08120
This course will focus on the micro and macro aspects of human service organizations of various kinds; for example, hospitals, courts, nursing homes, public agencies, schools, and the like. These organizations will be examined in terms of their structure, delivery of services, their function of "processing" human beings, the internal and external environments in which they operate, and the policy implications for delivery of services and organizational change.
- SOC 08425: Sociology Senior Seminar 3 s.h.
Prerequisites: SOC 08120, SOC 08331, SOC 08375 and SOC 08376 or permission of the instructor.
This seminar is a capstone experience designed to help students integrate what they have learned as sociology majors in a liberal arts setting. Students will engage in oral discussions and presentations as well as written exercises and essays to demonstrate an understanding of the sociological perspective, theoretical approaches and methods. The substantive focus of the seminar will vary by instructor.
- SOC 08429: Organizational Response to Disasters and Crisis 3 s.h.
Prerequisite(s): SOC 08120
This course will help students understand the complex social organizations and organizational responses to disasters. A secondary goal of this course is to learn to understand and utilize the vast research published in this interdisciplinary field, while maintaining a specific focus of the sociological core of the research. Students will gain a familiarity with local, state and federal disaster-related organizations and how they respond within the bureaucratic structure to facilitate social recovery in the aftermath of disasters and crisis to enhance the chances of improving disaster preparedness, disaster mitigation, and disaster response to possible natural, human-induced or technological hazards. Furthermore, this course will include discussions of disaster-related organization and social policies, issues of disaster preparedness, the media and disaster response and challenges/opportunities of disaster recovery and prevention.

Course Descriptions

SOC 08430: Case Management Intervention in Sociological Practice 3 s.h.
Prerequisites: SOC 08120 and SOC 08223

This course emphasizes effective case management practice at the micro, mezzo, and macro levels of system intervention for populations at risk; Application of systems thinking to case management issues with individuals, families, and groups; Issues of aging, family mental health, child welfare, adult services and health are interwoven into practice scenarios in an effort to explore the multiple social problems faced by groups in a social service organization on a regular basis.

SOC 08494: Field Experience Seminar in Sociology - WI 3 to 6 s.h.
Prerequisite: SOC 08120

This seminar provides the opportunity for students to be engaged in a field experience which will contribute to their sociological development. Students interact with their instructor and the other students in the seminar in the development, supervision and completion of individual projects. Areas of interest may include sociological research, analysis of social agencies and the development of affirmative social action programs.

Writing Intensive - WI

SOC 08575: Social Determinants of Health: Theory and Intervention in Urban Settings 3 s.h.

This course expands categories of disease risk beyond disease pathology and individual factors to psychological and sociological phenomena within an urban context. Moreover, this course seeks to describe the relationship between these conditions and health or health outcomes focused on factors such as water and air quality and food safety. More recent public health efforts have identified a broader array of conditions affecting health, including community design, housing, employment, access to health care, access to healthy foods, environmental pollutants, and occupational safety. The link between social determinants of health, including social, economic, and environmental conditions, and health outcomes is widely recognized in the public health literature to address persistent and pervasive health disparities.

SOC 08578: Critical Race Theory: Application and Intervention 3 s.h.

Students will explore the social construction of race and the subsequent implications this phenomenon has for particular members of society. Building upon the origins of the Critical Legal Studies Movement and Critical Raced Theory (CRT), students will examine their own dispositions for significant issues from the centrality of race, class and gender to better understand the need for becoming social justice advocates while learning a variety of social justice intervention strategies. Specific attention will be focused on the medical/clinical setting where issues of race, class and gender can pose barriers to culturally competent care for clients.

SOC 08591: Social Dynamics of Political Violence, Insurgency and Civil Unrest 3 s.h.

Non-state political violence has become one of the major public policy issues in both US foreign policy and increasingly as well in domestic policy by examining policy decisions made in response to both terrorist attacks and the threat of terrorism in homeland security planning, border security, and surveillance. The course emphasizes international non-state violence, such as terrorism, militancy, insurgency, guerilla warfare, low-intensity conflict and civil war, and how communities, states and regions respond. By examining numerous international case examples of responses to terrorism through emergency response organizations, community organizations, and volunteerism, students will have a better understanding of the significance of social factors that serve as catalyst for the root causes of terrorism and factors that strengthen community resilience following terrorism and civil unrest.

SOC 08599: Urban Environmental Health 3 s.h.

This course examines a broad range of factors affecting public health in urban environments within the context of essential formal public health infrastructures and informal settlements. An in-depth analysis of how increased exposures of industrial toxins, sanitation, air and water quality, poverty, geographic dispersion and how social environments place stress on city inhabitants collectively affect a city's health, as well as how these cities can respond to meet the increased challenges will be explored.

SOC 08600: Social Experience of City Life and Urban Inequalities 3 s.h.

This course will utilize a social psychological perspective, symbolic interaction, to understand urban dynamics. The course will focus on the study of the historical transformation of the city and the creation of social and psychological order in cities, an in-depth study of how the physical and social settings of cities influence health and behavior and how reciprocally urban behavior influences the physical and social settings. A considerable amount of time will analyze urban public behavior and its social psychological consequences in terms of how people conduct their daily routines with strangers, friends, relatives, and neighbors. Everyday interaction patterns of urbanities – pedestrian, transportation, shopping patterns, sports, parks, playgrounds, museums, theaters, etc. – will be analyzed. Moreover, attention will be turned to the study of urban communities and lifestyles of different social classes concerning urban inequality and social differences. The social and psychological consequence of living in the city is a major theme of concern for this course.

Course Descriptions

SOC 08690: Urban Research Studio 3 s.h.

From community-based research and data collection to conduct original research to policy analysis, program evaluation, or projects that introduce new novel approaches to addressing urban health issues, this is a project-based course that can take a variety of formats. Ideally, with the consultation of an advisor, each participant in this course will undertake a research project. The results of this research may be an academic paper, a health policy position paper, a community education documentary or the submission of a grant application to seek funding for future programmatic needs or future research.

THD 07501: Introduction To Graduate Theatre Study 2 s.h.

This course examines basic tools for graduate research in theatre. Students learn to analyze, support and present written research at the level expected of a graduate student. Their writing style will be evaluated and writing exercises will be critiqued. In addition, students will review scholarly documentation and look at various approaches the writer can take to assemble a thesis proposal.

THD 07502: Studies In World Theatre History And Criticism 3 s.h.

Through the study of landmark works of drama and dramatic theory, this course investigates style, form and production methodology in selected periods of European and Asian theatre from the Classical Age to 1915. A research paper is required.

THD 07503: Studies In American Theatre History And Criticism 3 s.h.

Building on student background and interest, this course will focus on the history of theatre in America from the colonial period through America's emergence as a world theatre force (the work of O'Neill and others) to the post-modern experiments of today. Students will investigate the work of major playwrights, critics, theatre practitioners and theorists across a broad cultural and social spectrum.

THD 07505: Independent Study In Graduate Theatre And Arts Administration 1 to 3 s.h.

Prerequisite: Permission of the department Graduate Committee

Students will pursue research in an area of theatre study determined by the student in consultation with the adviser. The project can include examination of performance activities, historical or critical concerns or any other area of concern to the student.

THD 07507: Challenges In Design & Technical Production 3 s.h.

The activity in this course will examine specific set, costume and lighting design and technical production challenges presented by the stylistic and physical demands of a script. The student will be required to research and create practical solutions within an overall design concept.

THD 07508: Seminar In Directing: Working With The Actor 3 s.h.

This course explores techniques employed by the director working with actors during the rehearsal period. Topics include: conducting efficient rehearsals, improving physical and vocal effectiveness, guiding characterizations, stimulating emotional credibility and creating ensemble. Examination of source works on acting and directing is augmented by observation and demonstration.

THD 07509: Special Problems In Directing 3 s.h.

Utilizing research, discussion and a laboratory format, the student will explore advanced concerns of staging and style. This course will focus on topics selected from the following: specialized blocking situations; regionalisms, dialect and verse dialogue; historical production styles; non-realistic production styles; post-modern approaches to acting and directing; the role of gender in directing; the semiotics of directing. The course culminates in a final scene project.

THD 07511: Production/Performance/Arts Administration Project 3 to 6 s.h.

Prerequisite: Permission of the department Graduate Committee

This course enables students to use production or arts administrative work as a centerpiece for a reflective and faculty supervised research project. Students may write, design, direct, choreograph, perform or conduct practical field research in arts administration either on the Rowan campus or at a faculty approved professional arts venue. Combined with further research and writing, the project provides the student with an in-depth look at production activity in a wider context. The prospective project must be approved by and supervised by department faculty. This project may also serve as the capstone experience for the M.A. in Theatre: Arts Administration or the Graduate Certificate in Theatre.

THD 07515: Internship In The Arts 3 to 6 s.h.

Prerequisite: Permission of the department Graduate Committee

This course offers credit for faculty supervised, practical experience with a theatre or arts-related company, in acting, directing, design/production, management or dramaturgy. In general, 3 semester hours are given for a full semester or summer in such a setting and students must complete a comprehensive, reflective report and/or journal of their activities. The course may be repeated to a maximum of 6 S.H.. The prospective internship and duties must be approved by and supervised by department faculty in advance.

Course Descriptions

- THD 07520: Thesis Research And Writing 3 to 6 s.h.
Completion of 17 s.h. in the theatre program and approval of advisor is required. This credit is earned for time spent researching and writing the master's thesis under the supervision of a faculty adviser. The student reports to the adviser on a regular basis during this period. The finished thesis must be approved by a committee composed of the adviser and two other faculty designated by the department. The 6 s.h. of credit may be taken all at one time or be divided between two terms (3 s.h. each).
- THD 07525: Theory And Practice In Teaching Theatre K-12 3 s.h.
This course presents teaching/learning theory and its application in K-12 theatre education. Students will learn to design and teach theatre arts experiences, observe and evaluate teaching, and develop resources, including instructional plans for a multi-week unit, for teaching at the elementary and secondary level. Through this course, students will actively learn the knowledge and skills needed to teach an effective K-12 theatre curriculum.
- THD 07530: ARTS ADMINISTRATION LEADERSHIP 3 s.h.
This course provides an overview of the administrative functions of non-profit arts organizations and explores the theories and practices behind decision-making in arts organizations today. The course will focus on analyzing concepts for managing arts organizations, including organizational plans, managing boards, fund-raising, human resources, facilities, program development, and effective evaluation.
- THD 07531: Producing And The Arts 3 s.h.
This course examines the relationship between the artistic quality and the financial reality of an arts organization. Through lecture, discussion, and projects, students learn about basic accounting, short- and long-term budgeting and planning, and financial management in relation to arts organizations.
- THD 07532: Arts Planning: An Elegant Process 3 s.h.
The purpose of this course is to introduce students to the artistic process as it relates to planning. By applying the artistic process to planning as the unifying principle, students will understand how artistic behaviors inform organizations to achieve health and dynamic balance. Through lectures, written assignments and discussion students will be led through a planning process and examine professional leadership, vision, core beliefs and values, internal and external relationships, organizational format and equation, planning, assessment and adaptive processes.
- THD 07533: Audience Development 3 s.h.
The purpose of this course is to provide an overview of basic arts and audience development, behavior and research. Coursework assists students in forming a comprehensive understanding of audience development, while providing frameworks for the practical application of audience development in non-profit arts organizations.
- THD 07534: Education & Outreach Programs In The Arts 3 s.h.
Education programs allow arts institutions to interact with their communities in a deeply connected manner, build future audiences and provide both children and adults with a deeper appreciation for the place of the arts in their lives. This course studies the development and implementation of such programs within arts institutions ranging across the span of all the artistic disciplines.
- THD 07535: Curatorial Practice In The Arts 3 s.h.
This course focuses on the dynamic field of curatorial practice in contemporary art and performance. Through the study of the changing perception of the role of the curator as one who has traditionally "cared for" objects of art, to one who innovates, mediates, critiques and produces, students will gain knowledge of how exhibitions bring works of art and performance to the public. In addition students will research the role of technology and other evolving forms of curatorial practice.
- THD 07536: Fundraising & Development for the Arts 3 s.h.
This course focuses on how fundraising and development supports arts organizations and aids in setting and achieving institutional goals and missions. Students will prepare an annual fundraising plan, a long form grant proposal, learn to determine program fundability and identify arts funding opportunities across four funding categories: individuals, foundations, corporations, and government agencies. Assignments also include setting realistic goals and objectives for different arts fundraising/development activities, evaluating success and sustainability to secure future funding and using new media, print, broadcast and digital media to build support for their chosen arts organization.
- THD 07537: Advocacy and Arts Policy 3 s.h.
What is public policy? How do we define 'Arts' as a policy sector? What are the points of view of individuals, communities and organizations and how do they impact the development of government policies for the arts? Students will examine research to develop a broader framework related to the relevance and importance of the arts in our society. Students will develop an understanding of the relationship between public policy and the arts in the United States. This course is designed for students with the knowledge and skills to craft an effective argument about arts policy, to make a policy recommendation based on research and analysis and to present that argument.

Course Descriptions

AFRI 16540: Special Topics In Foreign Languages And Literatures 3 s.h.
This course brings new perspectives and themes to the established Foreign Languages and Literatures curriculum. Each semester the instruction of this course rotates among faculty members who select topics according to their current scholarly interests. In this way, the course expands options for upper-level electives.

ARAB 12540: Special Topics In Foreign Languages And Literatures 3 s.h.
This course brings new perspectives and themes to the established Foreign Languages and Literatures curriculum. Each semester the instruction of this course rotates among faculty members who select topics according to their current scholarly interests. In this way, the course expands options for upper-level electives.

CHIN 07540: Special Topics In Foreign Languages And Literatures 3 s.h.
This course brings new perspectives and themes to the established Foreign Languages and Literatures curriculum. Each semester the instruction of this course rotates among faculty members who select topics according to their current scholarly interests. In this way, the course expands options for upper-level electives.

FREN 02540: Special Topics In Foreign Languages And Literatures 3 s.h.
This course brings new perspectives and themes to the established Foreign Languages and Literatures curriculum. Each semester the instruction of this course rotates among faculty members who select topics according to their current scholarly interests. In this way, the course expands options for upper-level electives.

GERM 03540: Special Topics In Foreign Languages And Literatures 3 s.h.
This course brings new perspectives and themes to the established Foreign Languages and Literatures curriculum. Each semester the instruction of this course rotates among faculty members who select topics according to their current scholarly interests. In this way, the course expands options for upper-level electives.

ITAL 04540: Special Topics In Foreign Languages And Literatures 3 s.h.
This course brings new perspectives and themes to the established Foreign Languages and Literatures curriculum. Each semester the instruction of this course rotates among faculty members who select topics according to their current scholarly interests. In this way, the course expands options for upper-level electives.

LAT 09540: Special Topics In Foreign Languages And Literatures 3 s.h.
This course brings new perspectives and themes to the established Foreign Languages and Literatures curriculum. Each semester the instruction of this course rotates among faculty members who select topics according to their current scholarly interests. In this way, the course expands options for upper-level electives.

RUSS 06540: Special Topics In Foreign Languages And Literatures 3 s.h.
This course brings new perspectives and themes to the established Foreign Languages and Literatures curriculum. Each semester the instruction of this course rotates among faculty members who select topics according to their current scholarly interests. In this way, the course expands options for upper-level electives.

SPAN 05540: Special Topics in Foreign Languages and Literatures 3 s.h.
This course brings new perspectives and themes to the established Foreign Languages and Literatures curriculum. Each semester the instruction of this course rotates among faculty members who select topics according to their current scholarly interests. In this way, the course expands options for upper-level electives.

MAWR 01546: CONTEMPORARY RHETORIC 3 s.h.
This course introduces students to rhetorical theory, classical through modern. Against a backdrop of Sophistic, Greek, and Roman rhetorics and their contemporary applications, students will consider major contemporary rhetorical theories by I.A. Richards, Kenneth Burke, James Kinneavy, and others. In addition to responses to these theoretical works, students will produce a rhetorical analysis of a text or texts from their own area of interest, investigating how the application of rhetorical strategies produces particular outcomes with particular audiences.

MAWR 01549: Issues In Composition Studies 3 s.h.
Issues in Composition Studies examines the dominant theories, texts and ways of knowing that are fundamental to the discipline of composition/rhetoric. Topics include current and historical perspectives on the composing process, the formation and functions of discourse communities, writing as a social process and methods of assessment. The course will demonstrate various avenues for research and teaching in composition and rhetorical studies, will provide students with knowledge necessary to construct a theoretical model for the everyday teaching of writing and will assist students in applying and refining that model.

Course Descriptions

MAWR 01554: Core I: Theories and Techniques of Writing 3 s.h.

Core I offers an indepth examination of theories of composing, focusing on the interdisciplinary nature of writing through inquiry into rhetorical elements common to all writers, for example, genre, tone, audience, point of view, and voice. It also considers basic principles and techniques of writing, including narration, dialogue, exposition and style. Students will examine many genres of writing and compare and contrast the application of techniques to the differing genres.

MAWR 01555: Writing for Electronic Communities 3 s.h.

This course presents the rhetorical, social, and practical dimensions of writing in electronic (cyber) contexts. Students focus both on the various roles an individual creates and maintains when writing for different cybermedia formats and the kinds of conventions, concerns and grammars that exist in discrete electronic systems like the World Wide Web, listservs, distribution lists, the Intranet, e-mail, and hypertext. Seminar presentations and a semester-long project in a concentrated area of writing for a particular electronic community demonstrate students' ability to communicate on-line.

MAWR 01556: Assessment of Writing 3 s.h.

Assessment of Writing examines the dominant methods, issues and concerns that are central to the discussion and evaluation of students' written work. Topics include current and historical perspectives on writing assessment, the use of various models of writing assessment, the political and legal issues connected to writing assessment, and the validity and reliability of assessment models. The course will introduce students to the types of assessment models used in the field of composition, will explore the effectiveness of comments on papers, and will examine how to assess errors in writing. This class will also provide students with knowledge necessary to apply a range of assessment models in the application of writing across multiple workplace situations, and will assist students in applying and refining those models to new developments in computer-assisted writing.

MAWR 01557: Writing Freelance Features 3 s.h.

Students in this graduate level writing course will learn how to develop ideas for feature-length stories (such as profiles, trend pieces and human interest pieces) and how to research and write features on a variety of topics. They will learn how to structure feature stories, including longer (8,000-plus words) stories; how to write feature leads and "nut grafs;" and how to edit their own work to prepare it for submission. Finally, they will learn how to develop and present stories and story ideas to editors at both print and digital publications and how to submit their completed work for publication.

MAWR 01558: Fiction Workshop 3 s.h.

Students will complete, through the composition of a first draft and revision, works of literary fiction with emphasis upon the short story. In addition, students will read a body of published stories that illustrates such elements of fiction as setting, point of view, characterization and dialogue. Students will develop an analytical vocabulary that enables them to read, interpret, and evaluate the work of other fiction writers. A major portion of this class will be given over to workshop sessions during which students share and evaluate each other's work. As a workshop, this course can be taken twice for credit.

MAWR 01559: Core II: Research Methods for Writers 3 s.h.

Prerequisite: MAWR 01554

Core II surveys non-quantitative research methods writers use. This class examines techniques of print and on-line research, interviewing, and case studies to develop the ability to weigh and assess the reliability and relevance of information. Students will learn to identify and present problems in writing using different perspectives and learn how these research styles guide a writer's interpretation of information. The course prepares students to develop their own descriptive research projects.

MAWR 01560: Managerial Communication 3 s.h.

Managerial Communication introduces students to the theoretical and practical insights of corporate communication. The course helps students develop leadership communication skills and is designed to improve communication skills for managers, information workers, and other professional writers. Students will learn about rhetorical theories and rhetorical strategies for responding to communication situations, current forms of corporate communication, effects of technology and globalization on corporate communication, and guidelines for ethical communication. Students will prepare a variety of professional quality documents in response to real world, case-based assignments.

MAWR 01561: Seminar I 3 s.h.

Prerequisites: MAWR 01554 and MAWR 01559

Seminar I addresses the "professionalizing" aspects of writing and demystifies the publication process; students will learn how to negotiate contractual agreements, how to prepare writing for publication, how to handle publishers' copy editing tactfully, whether to use a literary agent, and the publishing differences across the writing markets (scholarly versus trade, specialized trade publications, textbooks, creative outlets, Internet publishing, and so on). In addition, the class will have a short unit on grants and funding, as many writers need external financial support for their work. Students will explore the benefits of joining writers' associations and guilds and the types of responsibilities writers take on when writing for publication. Seminar I also introduces students to the Master's Project requirement and all students are expected to complete a written prospectus and begin the preliminary stages of their Master's Project.

Course Descriptions

MAWR 01564: Information Architecture 3 s.h.

Information Architecture explores the connections among web site usability, interactivity, design, and navigation principles as each relate to the written content. Students investigate how written content influences the look and user-friendliness of web sites. Specific issues addressed in the course include presenting content for audiences with disabilities or for non-English speakers; privacy and security concerns; and the rise of information anxiety in the general public.

MAWR 01565: Technical Writing 3 s.h.

Technical Writing introduces students to the rhetorical, ethical, and professional issues associated with technical communication. It focuses on the rhetorical principles behind standard formats and styles of technical documents. It explores topics such as, document design; ethics (including issues of product liability); editing, style, and mechanical correctness; the role of technology; and the impact of the global marketplace.

MAWR 01566: Editing the Literary Journal 3 s.h.

This course provides hands-on experience with the editorial and managerial processes involved in publishing *Glassworks*, a literary journal in print and electronic formats. Students will study both successful and struggling journals and basic reference guides to determine criteria for success. Working with the instructor and various section editors, students will solicit, evaluate, and select submissions, communicate with contributors about editorial decisions, determine the layout and design of the journal, and distribute the journal. They will also evaluate and produce editorial content in various genres, including book reviews, author interviews, and opinion editorials, for potential publication in the magazine.

MAWR 01567: Professions in Publishing 3 s.h.

In this Master's level course, students will be introduced to the vast and complicated world of publishing, and will acquire a basic understanding of the different roles, terms, and current issues within the industry, especially as it pertains to trade industry publishing. Students will explore the variety of publishing structures in the industry today, emphasizing developmental editing and the role of the acquisitions editor. Students will also learn about marketing, production, sales, agenting, contract negotiation, and the process of developmentally editing manuscripts. Through working hands-on with materials and speaking with industry professionals, students will leave the course empowered to engage in the publishing industry and what such work will entail.

MAWR 01570: Experimenting with the Major Work-in-Progress 3 s.h.

Prerequisite: MAWR 01559 or Permission of the Instructor

When writers come up with an idea for a book or a major creative project, they often need to go through a period of incubation, testing, experimentation, and play. What style or voice will give energy to the story? What structure should it have? How will the narration be paced? What events will frame the book? The purpose and method of this class will be to encourage experimentation as students work to answer these questions. Student may advance their ideas for the MA in Writing project for Seminar I and II or create a new project. Students will explore theories of creativity, bricolage, process, genre, leitmotif, pattern recognition, and narrative design, using the familiar elements of craft (setting, character, narration, etc.) with emphasis upon advanced strategies represented by model texts.

MAWR 01571: Seminar II 3 s.h.

Prerequisite: MAWR 01561

Seminar II prepares students to complete the required Master's Project. Students will develop their projects from the prospectus created in Seminar I, select Master's Project Advisors, and write the rough drafts of the first three installments of their projects under the guidance of the Graduate Program Coordinator. Students will then work with their Advisors to revise and polish their projects to present to the faculty and students in a symposium format.

MAWR 01575: Practicum in Teaching Composition 3 s.h.

The Practicum in Teaching Composition supports first-time graduate instructors in the Teaching Experience Program by introducing foundational concepts in Writing Studies and select theories in Composition/Rhetoric, and by exploring and modeling best pedagogical practices. The Practicum in Teaching Composition (MAWR 01575) develops a community of instructors through seminar-style discussions, collaborative projects, and reciprocal classroom observations. Assignments directly relate to students' professionalization as instructors and members of the field of Writing Studies. Students develop reflective teaching practices that prepare them to teach subsequent composition courses.

MAWR 01615: Independent Study 3 s.h.

MAWR 01618: Special Topics 3 to 6 s.h.

This course has a changing focus that permits faculty to offer specialized seminars focusing on current trends in the field, areas of faculty creative work and scholarship, or student requests. Students may take this course for credit more than once, provided the subtitle is different. This course may not be offered annually.

Course Descriptions

MAWR 01620: Internet and Writing Studies 3 s.h.

This is a theory driven seminar course with a practical component wherein students will learn HTML, CSS, and how to compose web sites according to the latest theories on web design. Students will read scholarly texts that introduce them to the evolution of written communication and writing technologies, Internet studies, and hypertext theory. Students will use these texts and theories to both analyze and compose various web sites, including an online portfolio of work they would like to showcase for future employers or graduate schools.

MAWR 01621: Visual Rhetoric and Multimodal Composition 3 s.h.

This is a theory driven seminar course with a practical component. Students will read scholarly texts that introduce them to theories on multimodality, semiotics, visual rhetoric, copyright, and remix. Students will use these theories to both analyze and compose visual texts using multiple modes of communication.

MAWR 01622: Publishing for Creative Writers 3 s.h.

In this course, students aspiring to become published authors will explore many facets of literary publishing, from submitting work to agents and editors to editing a manuscript in production and marketing a completed book. Students will examine the many complex processes by which a literary manuscript (novel, story collection, memoir, etc.) becomes a book. Students will learn how to submit creative work to literary magazines, to agents, and to publishers. They will submit at least one completed work (an essay, a story, or a poem) to an appropriate journal or magazine. They will write a query letter and a synopsis for one of their own book-length projects and develop a marketing plan for the projected work. They will learn the most common reasons that writing is rejected and how to avoid them. They will learn about the varied roles of agents and editors from the editorial process through the design, production and promotion of the book. They will learn about the importance of applying for grants and fellowships, of submitting to literary competitions, and of "networking" in the development of a writing career. Students with completed or nearly completed books may use their own manuscripts for all of the above assignments.

MAWR 01623: Writing Stories for Children And Young Adults 3 s.h.

Students in this course will study the rich variety of fiction and nonfiction narrative published for audiences ranging in age from juvenile to young adult. Students will learn to recognize the elements of a good story for children, to evaluate children's literature based on a knowledge of these elements, and to write stories for this audience. Students will read outstanding examples in the genre and write their own stories, working methodically from story idea through revision to completed manuscript. (Students may choose to write fiction or nonfiction and may focus on short or long form narrative.) Students will critique each other's stories in workshop sessions. Students will also study the contemporary scene in children's publishing and will learn how to submit their stories to magazine and book publishers. As a workshop, this course can be taken twice for credit.

MAWR 01630: Writing Difference 3 s.h.

This course contrasts writing in academic genres against a variety of other forms, such as personal, imaginative, and popular writing. Students examine perspectives on language difference from sociolinguistic, literacy, feminist and composition studies perspectives, and produce writing in hybrid, multigenre or mixed-genre styles.

MAWR 02505: Poetry Workshop 3 s.h.

This class will provide a forum for students to explore the strategies poets use in creative expression. The students will develop an analytical vocabulary that allows them to read, interpret, and evaluate the work of other poets. A major portion of the class will be given over to workshop sessions, where students can share and evaluate each other's work. Students will also become familiar with a body of published poetry that illustrates techniques of expression, especially those that can be applied, not only to poetry, but to other genres of creative writing. As a workshop, this course can be taken twice for credit.

MAWR 02515: Creative Nonfiction Workshop 3 s.h.

Teaching students the form, structure and techniques of creative nonfiction, this workshop-style course addresses the issues of style, point of view, narrative and dramatic coherence as it applies to personal essay, the treatment of memory data, the use of detail in scene-setting and the connection between fictional and poetic strategies in nonfiction writing. In addition to their own work, students read and analyze contemporary creative nonfiction and classics in the genre; these texts serve as models for students to help them locate themselves within the large framework of creative nonfiction. Students will write several major pieces of varying lengths and types. As a workshop, this course can be taken twice for credit.

MAWR 02520: Writing the Novel 3 s.h.

Writing the Novel teaches students the structure, technique, and apparatus of the literary novel, and provides feedback and guidance through extensive instructor critique and workshop-style evaluation. It is recommended that students enrolling in this course have some prior practice in literary novel-writing or at least a strong background in reading the literary novel. Students are required to submit four consecutive novel chapters with synopsis by the end of the course.

MAWR 02521: Writing and Publishing the Nonfiction Book 3 s.h.

Writing and Publishing the Nonfiction book is about the culture and commerce of publishing, as well as the process of writing a nonfiction book. Students finish a proposal for a nonfiction book by the end of this semester and submit it to a commercial publisher. They receive guidance and criticism from the instructor throughout the entire process, submitting and re-submitting the proposals and sample chapters several times during the semester. In addition, students analyze book markets, prepare detailed proposals for their book idea, and present their idea to a mock editorial board making decisions about the publishing promise of the book. During lecture, students develop a clear understanding of the symbiotic relationships among ideas, authors, agents, publishers, and the buying public.

MAWR 02522: Nonfiction Workshop 3 s.h.

The Nonfiction Workshop provides an in-depth examination of nonfiction genres, including news reporting, features, opinion, immersion journalism, biography, criticism, and social commentary and analysis. Lectures cover the methods, techniques, and ethics of nonfiction. Various nonfiction markets and market requirements are discussed. Students read model selections in various nonfiction genres and experiment with writing their own similar selections, which are discussed and critiqued. Students complete substantial published articles and/or book selections in their chosen nonfiction genres. As a workshop, this course can be taken twice for credit.

MAWR 02523: Writing the Memoir 3 s.h.

Students receive in-depth instruction in writing the memoir, one of the most engaging and popular literary forms today. Students will read widely from selected memoirs, write three short memoirs that may stand alone or be interrelated, and experience the workshop method of critiquing manuscripts. Students will focus on characterization, conflict, point-of-view, and other literary elements traditionally associated with the narrative form as they develop their memoirs.

MAWR 02524: Writing the Graphic Novel: Theory and Practice 3 s.h.

This course explores the graphic novel genre and its incarnations through readings, writings, and discussion. An original script for a graphic short story or beginning of a novel will be developed in a series of assignments, and discussed and critiqued in a workshop environment. This course may not be offered annually.

MAWR 03520: Master of Arts in Writing Internship 3 s.h.

Prerequisite(s): Approval of Graduate Advisor

Under professional supervision in the field, students put into practice theories and skills learned in the classroom. Students' primary duties involve writing, though types and modes of writing (including electronic modes) may vary. Internship experience totals 120 hours of work. Students maintain a detailed log of working hours, prepare a portfolio of work completed in the internship, write an analysis of the internship experience and are evaluated by their site supervisor.

MAWR 07500: The Essay: Art and Craft 3 s.h.

This course introduces students to the essay as genre, its evolution, and current status. Emphasis is on esthetics, craft, and technique. Students will engage in both analysis and essay writing as means toward achieving a theoretical understanding of the form.

WA 01200: Introduction to Writing Arts 3 s.h.

Prerequisites: COMP 01111 and COMP 01112

Introduction to Writing Arts familiarizes students with the disciplinary underpinnings of Writing Arts, providing a background in the history of writing, current writing theories, writing as technology, and the writing professions. The course covers these issues within the context of the Writing Arts major, enabling students to situate themselves in a community of writers and language professionals and preparing them for upper-level coursework.

WA 01201: How Writers Read 3 s.h.

Prerequisites: COMP 01112

This sophomore-level course introduces students to theoretical methods of reading complex and sophisticated texts. Students will study theories of reading and writing that concern structure, register, genre, intertextuality, and rhetorical concerns. The course presents these theories and correlative methods through readings, and students then practice applying these methods during class discussions and in writing using a series of self-selected texts as the objects of study.

WA 01300: The Writer's Mind - WI 3 s.h.

Prerequisite(s): COMP 01112 and 45 credits earned

The Writer's Mind increases students' understanding of themselves as writers by learning craft-specific approaches to writing, and by developing critical awareness of their own and others' writing. Working in different genres of writing, students will gain experience in effective revision strategies, in analyzing audience, and in visual aspects of the printed or electronic page.

Course Descriptions

- WA 01301: Writing, Research & Technology 3 s.h.
Prerequisite(s): WA 01200 with concurrent enrollment allowed, COMP 01112, and 60 credits earned
This course presents the rhetorical, social, and practical dimensions of writing and researching in networked contexts. Students analyze and compose with audio, video, image and text, using a variety of digital writing practices. Students blend research methods informed by current literacy theories and modalities, allowing them to explore meaning-making, circulation, and the ethical ramifications of writing within digital communities.
- WA 01302: Introduction to Technical Writing 3 s.h.
Prerequisite(s): COMP 01112 or HONR 01112 or ENGR 01201 and 45 credits earned
This course introduces students to both the field of technical writing and the uses of technical writing within a variety of professions. Students will learn how technical writers use document design strategies based on rhetorical principles to respond to communication challenges. Through practice with a variety of genres, students will gain experience with audience analysis, communication ethics, research, collaboration, professional style, and editing. The course culminates in a writing project based on a professional, academic, or community issue of the student's choosing. Students are encouraged, and will be assisted, in designing projects that reflect their professional interests.
- WA 01304: Writing Creative Nonfiction-WI 3 s.h.
Prerequisite(s): COMP 01112 and WA 07290
Addressing craft and ethical concerns, this course introduces students to creative nonfiction. In the study of this "fourth genre" of creative writing, focus is on those elements, e.g., imagery, characterization, diction, that make nonfiction creative. Students will write in a number of subgenres, such as memoir, literacy journalism, and the personal essay, and will be exposed to a variety of narrative structures. They will also read and analyze representative professional writing to provide contexts for their own work, which will be critiqued by both the instructor and their peers. Special attention will be paid to the evolution of the student writer's personal voice.
- WA 01315: Writing with Technologies 3 s.h.
Prerequisite(s): COMP 01112 and 60 earned credits
Writing with Technologies provides students with a theoretical basis for understanding the ways technologies - past, present, and future - shape the collaborative construction of meaning inside and outside the classroom. Students are encouraged to expand their repertoire of technologies and conduct research on contemporary writing practices to increase critical awareness of the affordances and constraints writing technologies make available to them as future educators.
- WA 01322: Writing for the Workplace 3 s.h.
Prerequisite(s): COMP 01112 and 45 credits earned
This course introduces students to writing activities common to most careers. Assignments may include resumes and cover letters, field and progress reports, and proposals. Students can also expect to deliver brief oral presentations.
- WA 01326: Writing for Nonprofits-WI 3 s.h.
Prerequisite(s): COMP 01112 and 60 credits
This course is a junior level course that addresses the special technical and professional writing skills required for work in the nonprofit sector. Students will develop a broad understanding of the unique communication challenges faced by nonprofit organizations as they research and analyze the writing of various nonprofits and as they write in authentic situations. This course explores how nonprofits communicate with their many audiences, and students will compose writing typical of nonprofit organizations, including press releases and other public relations material, fundraising communications, reports, and grant proposals. Students may also have the opportunity to engage in service learning by working with and for a local area nonprofit.
- WA 01350: Rhetorics of Style-WI 3 s.h.
Prerequisite: COMP 01112
This course introduces students to the theory and practice of writing with stylistic devices and strategies. Through studying, analyzing, experimenting, and writing with a range of stylistic devices, students will develop a practical understanding of how to put figural language to use for persuasive, expository, and aesthetic ends, as well as develop an appreciation for the ethical implications of stylistic choices.
- WA 01358: Writing and Craft for Elementary Students 3 s.h.
Prerequisite(s): WA 07290 or WA 07309 or WA 01300
This course teaches early childhood and elementary education majors how to apply a writing workshop approach emphasizing craft to increase young writers' abilities.

- WA 01370: Professions in Writing Arts: Post-Graduate Options 1 s.h.
Prerequisite(s): WA 01200 and 30 credits earned
 Professions in Writing Arts: Post-Graduate Options introduces students to the various and wide-ranging opportunities available to writing arts students by exploring career, graduate school and other professional options in the field of writing. Class topics may include statements of purpose and letters of application; internships, field experience, and volunteerism; and publishing opportunities. Professionalism and entrepreneurial approaches to job seeking are also emphasized. Discussions and workshops are supplemented by guest speakers and readings.
- WA 01401: The Writer's Mind 3 s.h.
Prerequisites: COMP 01112 and 45 credits required
 The Writer's Mind increases students' understanding of themselves as writers by learning craft-specific approaches to writing, and by developing critical awareness of their own and others' writing. Working in different genres of writing, students will gain experience in effective revision strategies, in analyzing audience, and in visual aspects of the printed or electronic page.
- WA 01408: Writing as Managers 3 s.h.
Prerequisite(s): COMP 01112 and 45 earned credits
 This course provides Management students with extensive practice in preparing the written materials required by common management activities. Assignments include preparing the written materials required for OSHA compliance, in disciplinary situations, in alleged sexual harassment situations, and customer service. Other specific topical assignments will be developed to respond to changes in the education needed by Management students.
- WA 01415: Situating Writing 3 s.h.
Prerequisite(s): COMP 01112 and 75 credits earned
 Situating Writing provides students with the theoretical and practical tools they will need to work with young writers by introducing methods of teaching and evaluating writing that are explicitly writer-centered. Students will develop their own understandings of the process while learning how to respond to writing in ways that are situation-specific. Students will also improve their own writing by collaborating with other writers, giving and receiving feedback on work in progress, and using a range of technologies that facilitate feedback and revision.
- WA 01450: Writing Arts Portfolio Seminar 1 s.h.
Prerequisite(s): WA 01300 and WA 01301 and WA 01445
 Seniors majoring in Writing Arts will have an opportunity to reflect on the work undertaken as part of the writing arts major. The course asks students to construct and submit a portfolio consisting of work products both from those courses included in the core and from a selection of courses in the required elective clusters. A written reflection on the intellectual and learning experience derived from these courses as evidenced by the items included comprises the written requirement for this course.
- WA 07290: Creative Writing I 3 s.h.
Prerequisite: COMP 01111 or COMP 01105
 This course concentrates on developing students' skills in writing various kinds of poems and in developing fiction techniques. In addition to exploring different poetic forms, students learn how to create characters, establish conflict, and develop a plot while writing a short story. Students examine the work of professional poets and fiction writers.
- WA 07291: Creative Writing II 3 s.h.
Prerequisite: WA 07290 or CRWR 07290
 Building upon the foundations learned in Creative Writing I, students in Creative Writing II will engage in more specific practice in the conventions of short story writing, creative nonfiction and poetry. Students will have directed assignments encouraging experimentation in multiple genres but will prepare a final portfolio that may give more emphasis to a genre of their choice. Special emphasis will be placed on reading examples of these conventions and learning how writers graft or borrow techniques (dialogue, dramatic monologue, voice, description) from one genre to apply it in another.
- WA 07309: Writing Children's Stories 3 s.h.
Prerequisite: 30 credits earned
 This course focuses on fiction written for juveniles and young adults. Students examine the rich variety of literature published for young people. They do exercises, write complete stories, critique each other's writing in workshops and meet with the teacher for individual conferences on their work. They also learn how to submit manuscripts to magazine and book publishers.

Course Descriptions

WA 07391: Writing Fiction 3 s.h.

Prerequisite(s): WA 07290 or WA 07291 or CRWR 07290 or CRWR 07291

This class will provide a forum for students to explore the strategies fiction writers use in creative expression, especially in writing the short story. Students will develop an analytical vocabulary that allows them to read, interpret, and evaluate the work of other fiction writers. A major portion of the class will be given over to workshop sessions, where students can share and evaluate each other's work. Students will also become familiar with a body of published short stories that illustrate techniques of expression such as setting, point of view, characterization, dialogue, and other elements of fiction.

WA 07392: Fundamentals of Playwriting 3 s.h.

This course covers the methods of developing and writing a play. During the course, students analyze plays, and outline and work on the draft of a full-length play. This course may not be offered annually.

WA 07395: Writing Poetry 3 s.h.

Prerequisite: WA 07290 or CRWR 07290

This class will provide a forum for students to explore the strategies poets use in creative expression. The students will develop an analytical vocabulary that allows them to read, interpret, and evaluate the work of other poets. A major portion of the class will be given over to workshop sessions, where students can share and evaluate each other's work. Students will also become familiar with a body of published poetry that illustrates techniques of expression such as imagery, metaphor, voice, tone, the music and strategy of the line, and other elements of poetry.

WA 07410: Tutoring Writing 3 s.h.

This course provides students theory and practice in tutoring writing at all educational levels. It covers the writing process, the particulars of the tutorial relationship and issues of working with writers from a variety of backgrounds and abilities. It is recommended for students who are presently engaged in the tutoring of writing and those who may teach writing in one-on-one or small-group settings in the future.

Organization of the University

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Rowan University operates under the laws of the State of New Jersey. The Board of Trustees of Rowan University is vested by law with the general supervision of the University within general policies and guidelines pursuant to N.J.S.A. 18A:64 et. seq. Some of the responsibilities of the Trustees are to appoint the University president, to approve the educational curriculum and student services program, and to determine policies for the organization, administration, and development of the University.

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Abruzzo-Klumpp, Dorothy <i>B.A., M.A. Rowan University</i>	Associate Director, University Advising Services
Aderinto, Martha	Managing Administrative Assistant, VP of student Life
Alkanat, Gokhan <i>Ph.D., Auburn University; M.Ed., Troy University</i>	Director, International Center
Alverio, Melanie <i>B.S., M.B.A., Rowan University</i>	Assistant Director of Marketing, Member Services and Business Operations
Amico, Peter L <i>AA Gloucester County College; BA Rowan University</i>	Deputy Emergency Management Coordinator
Ammar, Nawal <i>B.Sc., M.Sc. University of Salford, Greater Manchester University; Ph.D. University of Florida</i>	Dean, College of Humanities and Social Sciences
Balsama, Louis <i>D.O. UMDNJ-SOM</i>	Surgery, Acting Chairperson (RowanSOM)
Basantis, Melanie <i>B.S., B.A., Penn State University; M.B.A., Widener University</i>	Director of Outreach, Henry M Rowan College of Engineering
Basehore, Pamela <i>Ed.D., MPH University of Medicine and Dentistry of New Jersey (UMDNJ)-Robert Wood Johnson Medical School</i>	Associate Dean for Assessment (RowanSOM)
Bausch, Suzanne <i>B.A., Metropolitan State College; Ph.D., University of Washington</i>	Vice Dean, College of Science and Mathematics
Beswick, Christine <i>B.A., Rutgers University</i>	Director of Planning, Program Development and Special Projects (RowanSOM)
Betts, Albert <i>B.A., M.A., Indiana University of Pennsylvania, Ed.D., Rowan University</i>	Director of Admissions
Blake, Corinne <i>B.A., University of Cal-Berkeley; Ph.D., Princeton University</i>	Associate Dean, College of Humanities and Social Sciences
Blake, Michael D.	Assistant Vice President, Budget and Financial Planning
Bonfield, Jeff	Director of Assessment
Bosio, Amy <i>MBA</i>	VP Finance
Botez, Cristian <i>B.S., University of Bucharest, Romania, M.S., Ph.D., University of Missouri-Columbia</i>	Dean, College of Science and Mathematics and School of Health Professions
Bouaynaya, Nidhal <i>B.S. Ecole Nationale Supérieure de l'Electronique et de ses Applications; M.S., Ph.D. University of Illinois at Chicago</i>	Associate Dean for Research and Graduate Studies
Boyd, Linda	Sr. Assoc. Dean Academic Affairs (SOM)
Braeunig, Raymond <i>N/A</i>	Chief Compliance and Privacy Officer
Brasteter, Christine <i>B.S., Michigan State University; J.D., Widener University</i>	Senior Director of Contracts/ Procurement
Britt, Maria	Managing Administrative Assistant, Office of the Senior Vice President for Health Sciences
Bullard, Robert <i>B.A., M.A., Rowan University</i>	Director, Office of Career Advancement
Butler, Roger L. <i>B.A., Washington and Lee University; M.A., George Mason University; M.A. George Washington University; Ph. D., Princeton University</i>	Associate Dean, College of Communication and Creative Arts

Executive Administration

Byrne, Mark <i>B.S., Carnegie Mellon University; M.S., Ph.D., Purdue University</i>	Professor and Department Head, Biomedical Engineering
Calio, Brian <i>B.A., University of Delaware; M.S., California University of Pennsylvania</i>	Assistant Director of Facilities and Event Operations
Campbell, Megan <i>B.A., Rowan University</i>	Stewardship and Donor Relations Manager
Caputo, Greg <i>B.S., Stevens Institute of Technology, Ph.D., Stony Brook University</i>	Associate Dean, College of Science and Mathematics and School of Health Professions
Caradonna, Salvatore <i>Ph.D. State University of New York at Buffalo Roswell Park Cancer Institute</i>	Molecular Biology, Chairperson (RowanSOM)
Cardello, Lisa <i>BS-TCNJ, MA-TCNJ, MEd.S, Rider University</i>	Director of the Center for Teaching and Learning (RowanSOM)
Cardona, Jose <i>B.A., M.A., Ed. D., Rowan University</i>	Vice President for University Relations
Cavalieri, Thomas A	Dean, Rowan University School of Osteopathic Medicine
Chadd, Patrick <i>Ed.D</i>	Director of IRT Technology Services, Stratford Campus (RowanSOM)
Channell, Millicent <i>D.O. Philadelphia College of Osteopathic Medicine</i>	Assistant Dean for Curriculum (RowanSOM)
Chin, Steven H. <i>B.S., Rutgers University; M.S., The Johns Hopkins University; Ph.D., Rutgers University</i>	Vice Dean, Henry M Rowan College of Engineering
Chopra, Anita <i>M.D., FACP Government Medical College and Hospital</i>	Geriatrics and Gerontology, Chairperson; Director, NJ Institute for Successful Aging (RowanSOM)
Ciocco, Michael D. <i>B.S., M.S., Rowan University</i>	Director of Rowan Online Division of Global Learning and Partnerships
Collins, Dennis P.	Director of Facilities, Cooper Medical School
Conners, Deanne <i>N/A</i>	Managing Administrative Assistant, Dean's Office, Cooper Medical School
Connor, Joanne M. <i>BA, St. Josephs, PA MA, Rowan University Ed.D. Rowan University</i>	Chief of Staff and Liaison to the Board of Trustees
Conte, Patricia <i>B.S., Rowan University, CPA, Maryland</i>	Administrative Financial Assistant for Academic Affairs
Cooley, Danielle L. <i>D.O. University of Medicine & Dentistry of New Jersey School of Osteopathic Medicine</i>	Osteopathic Manipulative Medicine, Chairperson (RowanSOM)
Coren, Joshua S. <i>D.O., MBA, FACP Philadelphia College of Osteopathic Medicine</i>	Family Medicine, Chairperson (RowanSOM)
Cure, Erin <i>B.A., Rowan University</i>	Discovery Officer
D'Elia, Andrew (Drew) <i>B.S., Pennsylvania State University; M.A., University of Central Florida</i>	Assistant Director of Sport Clubs and Youth Programs
Dammers, Richard <i>B.M., Northwestern University; M.M., Ph.D., University of Illinois</i>	Dean, College of Performing Arts
Davis, John A.	Managing Assistant Director, Custodial Services
De, Arijit <i>Bachelor of Architecture from Delhi University, Master of Architecture from University of Pennsylvania and Master of Landscape Architecture from University of Pennsylvania</i>	Assistant Vice President for Planning and Real Estate
DeLa Cadena, Raul <i>B.S. Mexico University Ctr.; M.D., La Salle University School of Medicine</i>	Director of Student Diversity (RowanSOM)

Executive Administration

DeRisio, Vincent	Associate Dean for Clinical Affairs and Population Health/Pathology Acting Chairperson (RowanSOM) <i>D.O., FACP New York College of Osteopathic Medicine</i>
DeVecchis, Theresa A.	Managing Administrative Assistant, Office of the President <i>B.S Rutgers New Brunswick</i>
Delgado, Joseph	Senior Development Director, Rohrer College of Business <i>B.A. Mercyhurst University; M.A. Ohio State University</i>
Dersch, Melissa G	Development Director <i>BA Rowan University</i>
DiGennaro, Linda	Director of University Events
DiSante, Cherish	Assistant Director, Henry M Rowan College of Engineering <i>MA, Rowan University BA, Rowan University</i>
Douglas, Travis W.	Assistant Vice President for Residential Learning and University Housing <i>B.A., Sonoma State University; M.A., University of Georgia</i>
Dramis, Cassandra	Associate Director of Corporate and Foundation Relations for Health Sciences <i>B.A., Rowan University</i>
Duffy, Andrew	Associate Director of Employer Relations <i>B.S. Grove City College; M.E., Slippery Rock University</i>
D'Angelo, Christopher	Director of Alumni Engagement <i>B.A., M.A., Rowan University</i>
Eigenbrot, Carol	Associate Director, University Advising Services <i>B.S., Springfield College; M.A. Rowan University</i>
English, Redmond S.	Campus Database Administrator, Enterprise Information Systems <i>B.Sc. from Manchester University, United Kingdom</i>
Ewan, Brian	Assistant Vice President for Operations and Plant Management
Farney, Steven C.	Director of Operations, Strategic Enrollment Management - Director of Operations <i>B.A., M.B.A., Ed.D. Rowan University</i>
Farrell, Deanne	Director of Corporate and Foundation Relations <i>B.A., Rutgers University</i>
Farrell, Stephanie	Interim Dean, Henry M Rowan College of Engineering <i>B.S., University of Pennsylvania; M.S., Stevens Institute of Technology; Ph.D., New Jersey Institute of Technology</i>
Ferrarie, Joseph A.	Manager of Information Technology Services, Cooper Medical School
Ferraro, Gloria J.	Managing Administrative Assistant, Office of Government and External Relations <i>N/A</i>
Fields, Jeffrey M.	Data Standards Analyst, IRT - Analytics, Systems and Applications (ASA) <i>B.A. Drexel University</i>
Finkel, Martin A.	Director, Child Abuse Research Education Service Inst. (CARES) (RowanSOM) <i>D.O. College of Osteopathic Medicine Michigan State University</i>
Fischer, Sean	Associate Dean for External Affairs, Henry M Rowan College of Engineering <i>B.A., Rowan University; M.A. Villanova University</i>
Fleming, Stephen	Assistant Dean <i>B.A., M.A. Rowan University</i>
Forman, Gail L.	Senior Director of Development <i>J.D., Hofstra University School of Law; B.A., University at Albany, State University of New York</i>
Freyre, Leo	Director for Business Affairs and University Bursar <i>A.A.S., Berkeley College; B.S., Marist College; M.S., College of Saint Elizabeth</i>
George, Kevin	Director of Campus Recreation <i>B.S., Robert Morris University; M.S., University of Florida</i>

Executive Administration

Ghosh, Soumitra <i>B.A., Presidency College; M.A., University of Calcutta; Ph.D., Oklahoma State University</i>	Vice President for Strategic Enrollment Management
Giacobbe, Jacqueline <i>M.S.Ed., M.A. University of Pennsylvania, BA Widener University</i>	Director of Academic Affairs (RowanSOM)
Glass, John B <i>BS, Rutgers University-Cook College; MS, Temple University</i>	Director of Environmental Health and Work Safety
Gordy, Pamela <i>B.A., Rowan University; M.S., Walden University</i>	Director of Financial Aid
Gorman, Elizabeth H.	Assistant General Counsel
Haines, Laurie <i>B.S., Pennsylvania State University</i>	Certification Specialist, College of Education
Hand, John J. <i>B.S., Temple University; M.A., West Chester University; Ph.D., Drexel University</i>	Senior Vice President for Student Affairs
Harvey, Roberta <i>B.S., B.A., M.A., University of North Dakota; Ph.D., University of Wisconsin-Milwaukee</i>	Vice President for Academic Affairs
Havrisko, Andrew <i>B.A., Rowan University; M.A., University of Mississippi</i>	Assistant Director of Intramural Sports and Special Events
Hendricks, Sean <i>B.S., Towson University; M.S. McDaniel College; Ed.D. Rowan University</i>	Assistant Vice President, Academic Support Services
Hentschke, Lynne <i>BA, TESC, MS Walden University</i>	Managing Administrative Assistant, Academic Affairs Office
Hewitt, Michele <i>B.A., M.B.A., Stockton University</i>	Budget and Finance Manager, William G. Rohrer College of Business
Hock, Carl <i>Ph.D., University of Louisville</i>	Senior Associate Dean for Research and Graduate School of Biomedical Sciences Professor (RowanSOM)
Holzberg, Adam S. <i>D.O. New York College of Osteopathic Medicine</i>	Obstetrics and Gynecology; Chairperson (RowanSOM)
Houshmand, Ali <i>B.A., M.A., University of Essex, United Kingdom; M.S., Ph.D., University of Michigan</i>	President
Huber, Kathleen <i>B.A., The College of New Jersey; M.S., University of Pennsylvania</i>	Assistant Director of Fitness and Wellness
Isik-Ercan, Zeynep <i>Ph.D.</i>	Associate Dean for Faculty and Student Affairs
Jahan, Kauser <i>B.S., Engineering University, Bangladesh; M.S., University of Arkansas; Ph.D., University of Minnesota</i>	Professor and Department Head, Civil and Environmental Engineering
Jephson, John <i>B.S., James Madison University; M.A., Rowan University</i>	Assistant Director of Aquatics
Jermyn, Richard T. <i>D.O., FAAPM & R Philadelphia College of Osteopathic Medicine</i>	Director, NeuroMusculoskeletal Inst.; Chairperson (RowanSOM)
Jha, Ratan <i>B.A. University Delhi; M.S. University of Wisconsin, Milwaukee, Ph.D. Purdue University</i>	Professor and Department Head, Mechanical Engineering
Jones, Derek L.	Station Manager, WGLS
Jones, Richard <i>B.A., University of North Florida; M.S., Mississippi State University</i>	Vice President for Student Services/Dean of Students
Kaiser-Smith, Joanne <i>D.O., FACOI, FACP University of Medicine and Dentistry of New Jersey</i>	Associate Dean for Graduate Medical Education (RowanSOM)
Kalliny, Morris <i>B.A., Middle East College/University; M.B.A, Northwest Nazarene University; Ph.D., The University of Texas-Pan American</i>	Associate Dean, William G. Rohrer College of Business

Executive Administration

Kantner, Michael	Assistant Vice President for Public Safety and Emergency Management
<i>MS, Farleigh Dickinson University; BA, Rutgers University</i>	
Karpe, Yatin	Director, Technology Commercialization, Division of Research
<i>Ph.D.</i>	
Kealey, Katherine	Director, Orientation and Student Leadership Programs
<i>B.S. Elon University; M.Ed., Ohio University</i>	
Kempf, Penny A.	Associate Director of Athletics
Kessel, Steven	Interim University Registrar
Kozachyn, Stephen M.	Director of Experiential Learning, William G. Rohrer College of Business
<i>BS, Edison State College; MS, New Jersey Institute of Technology; MBA, Rowan University</i>	
Kuerzi, Ken	Assistant Vice President for Labor Relations
<i>B.S., J.D., Florida State University</i>	
Lalovic-Hand, Mira	Senior Vice President, Information Resources and Technology/CIO
<i>B.S. Belgrade University, Belgrade, Serbia; M.S., PhD. University of Cincinnati</i>	
Lambert, Kathryn	Assistant Dean for Student Affairs
<i>D.O., FAOASM Philadelphia College of Osteopathic Medicine</i>	
Layton, Reed	Senior Director of Public Safety/Director of University Police
<i>A.A., Gloucester County Community College</i>	
LeComte, Jennifer M.	Director, Rowan Integrated Special Needs (RISN), Div. Chief of Gen. Internal Med. (RowanSOM)
<i>DO, FACP, FAAP Philadelphia College of Osteopathic Medicine</i>	
Lecakes, George D.	Director, Virtual Reality Laboratory, South Jersey Technology Park
<i>BS, MS, Rowan University</i>	
Lehrman, Sue	Dean, William G. Rohrer College of Business
<i>Ph.D, MPH, UC Berkley; BS, Oregon State University</i>	
Levin, Francis	Emergency Medicine (Acting Chairperson-RowanSOM)
<i>D.O., FACEP Philadelphia College of Osteopathic Medicine</i>	
Lew, Theresa B.	AVP for Finance and Controller, Accounting Services
Lightfoot, Rob	Associate Director of Development
<i>B.A., M.A. Rowan University</i>	
Lizza, Joseph	Director, Chamberlain Student Center and Campus Activities
<i>B.A. Monmouth University; M.A. Rowan University; Ed.D. Rowan University</i>	
Lombardi, Marion J.	Chief Student Affairs Officer, Cooper Medical School
<i>BS/MS. The University of Scranton, Scranton, PA.</i>	
Lopez, Lydia R.	Managing Administrative Assistant, Office of the Vice President for Facilities and Operations
Lowman, Anthony	Provost, Senior Vice President, Academic Affairs
<i>B.S. U of Virginia; Ph.D. Purdue</i>	
Maden, Jen	Assistant Dean and Director of Graduate Studies, William G. Rohrer College of Business
<i>B.S., Rutgers University; M.A., West Chester University; M.B.A., Drexel University</i>	
Marshall, Amie	Associate Director of Annual Giving
<i>B.A., Chestnut Hill College</i>	
Marshall, Lori	Assistant Vice President for University Relations
<i>B.S., Evangel College; M.A., Rowan University</i>	
Martin, Heather	Managing Administrative Assistant, University Advancement
<i>N/A</i>	
Martin, Lawrence	Assistant Vice President of Facilities Design and Construction
<i>MPA</i>	

Executive Administration

Martino, Christina <i>H.S.</i>	Managing Administrative Assistant, Division of Finance
McElwee, Rory O. <i>B.A., Drew University; Ph.D., Cornell University</i>	Vice President for Student Affairs
McKinney, Kellie <i>B.S., Kutztown University.; M.A., Indiana University of Pennsylvania</i>	Director of Housing Administrative Services and Assignments
McPherson, Penny <i>B.A., M.A., Rowan University</i>	Assistant Vice President for Student Enrichment
Mesisca, James	Director of Facilities Business Operations
Mesisca, Philip J. <i>MBA, Rutgers University (Camden); CMPE</i>	Chief Operating Officer - SOM
Micciche, Dean A. <i>MPA, Rowan University</i>	Assistant Dean for Student Programs and Alumni Engagement - SOM
Milligan, Carolyn <i>B.S., Rutgers University</i>	Director of Payroll
Mitchell-Williams, Jocelyn Ann <i>(B.S.), Rutgers University; (Ph.D.) Rutgers University; (M.D.), Robert Wood Johnson Medical School, University of Medicine and Dentistry of New Jersey (now Rutgers University)</i>	Associate Dean for Multicultural and Community Affairs, Cooper Medical School
Morley, Thomas F. <i>D.O., FACOI, FCCP, FAASM Philadelphia College of Osteopathic Medicine</i>	Internal Medicine -Chairperson (RowanSOM)
Morley, Thomas F. <i>D.O., FACOI, FCCP, FAASM Philadelphia College of Osteopathic Medicine</i>	Internal Medicine -Chairperson (RowanSOM)
Muir, Scott <i>BS, Tennessee Technological University; Tennessee, MA of Librarianship, Emory Univ. Georgia; MS Eastern Michigan University, MI</i>	Associate Provost for Library Information Services
Muldoon, Kevin	Director of Facilities Trades Operations
Mulligan, Joseph <i>B.A., M.A., West Chester University</i>	Assistant Vice President for Civic Involvement
Murphy, Susan <i>B.A., The College of New Jersey; M.A., Rowan University</i>	Director of Advancement Communications
Murtha, Karen <i>B.A., Rutgers University; M.S., Kansas State University</i>	Assistant Dean, William G. Rohrer College of Business
Murthy, Sree	Chief Compliance Officer, Division of University Research
Nealer, Martha <i>BA, Monmouth University</i>	Associate Director of Corporate and Foundation Relations
Nevelos, Jeanne <i>BS Business and Psychology University of Pittsburgh; MBA Temple University</i>	Managing Director, Rowan Innovations
Newell, James <i>B.S., Carnegie-Mellon University; M.S., Penn State University; Ph.D., Clemson University</i>	Senior Vice President, Medical Initiatives and Affiliated Campuses
Noon, Christine <i>A.S., Middlesex Community College, B.A., M.A., Rowan University</i>	Director of Card Services
Nurkowski, Lucia <i>B.A., M.Ed., Boston University; Ed.D., Widener University</i>	Associate Director of Admissions
Perez-Colon, Maria <i>B.A., Rutgers University; M.A., Rowan University</i>	Program Advisor, Henry M Rowan College of Engineering
Perlis, Susan <i>Ed.D.</i>	Associate Dean for Medical Education, Cooper Medical School

Executive Administration

Peterson, Julie <i>B.A., M.A., Trenton State College (College of New Jersey)</i>	Director of Student Enrichment and Family Connections
Petrella, Brittany L <i>B.A., Rowan University</i>	Development Director
Piccioni, Rita	Director, Grant and Contract Accounting
Piddington, Sarah E. <i>B.S./M.B.A. - Rowan University</i>	Assistant Vice President, South Jersey Technology Park (SJTP)
Pippiton, Rosaria	Associate Director of Career Readiness
Polikar, Robi <i>B.S., Istanbul Technical University; M.S., Ph.D., Iowa State University</i>	Professor and Department Head, Electrical and Computer Engineering
Polk, Marie <i>B.A., Rowan University</i>	Events and Special Projects Manager
Puliti, Michele Ann	Managing Administrative Assistant, Dean's Office, Cooper Medical School
Rattigan, Peter <i>B.Ed., Avery Hill College, London, UK; M.A., Ph.D., University of Minnesota, Minneapolis</i>	Associate Dean of the Camden Campus
Reboli, Annette <i>MD from Georgetown University school of medicine</i>	Dean, Cooper Medical School
Regan-Butts, Elizabeth D. <i>B.S., Rowan University; M.B.A., Temple University</i>	Assistant Vice President, Marketing, Division of Global Learning and Partnerships
Reigel, Daniel P <i>B.A., M.A., Rowan University</i>	Associate Director of Admissions
Rey, Julia Elizabeth <i>B.A. Immaculata College, M.Ed. Wilmington College</i>	Associate Director, University Advising Services
Ricchezza, Lorraine <i>B.S., LaSalle University; M.Ed., Widener University; Ed.D. Rowan University</i>	Assistant Vice President Academic and Student Affairs/Rowan Global
Riehman, Felicia Gordon <i>B.S., University of Scranton; M.B.A., University of Scranton; M.S. LaSalle University</i>	Development Director, CMSRU
Rieker, Micheal G. <i>B.S. Seaton Hall University; CMPE</i>	Chief Financial Officer (RowanSOM)
Ring, Jackie	Associate Vice President for Information Resources and Technology
Robb, Marc <i>B.S., Rowan University</i>	Director of Advancement Services
Robshaw, Stephen <i>BA, Denyon College; MBA Villanova University</i>	Manager, Office of Proposal Development
Rolon, Annabel <i>N.A.</i>	Managing Administrative Assistant, Camden Campus
Ruymann, Amy <i>M.S.</i>	Associate Director, University Advising Services
Ryno, Amie <i>B.A., The College of New Jersey; M.A., Emerson College</i>	Manager, Rohrer Center for Professional Development
Saadeddine, Rihab <i>B.S. Lebanese University, M.A., Ed.D. Rowan University</i>	Director of Operational Effectiveness
Sacchetti, Lorraine	Senior Director, Risk Management and Insurance
Savelski, Mariano J. <i>B.S., University of Buenos Aires; M.S., University of Tulsa; Ph.D., University of Oklahoma</i>	Associate Provost for Faculty Affairs, Professor and Department Head, Chemical Engineering
Scheinthal, Stephen M. <i>D.O., DFACN, DFAPA UMDNJ-SOM</i>	Psychiatry, Chairperson (RowanSOM)

Executive Administration

Schneider, Joan K.	Managing Administrative Assistant, Office of Research
Scott, George <i>DPM, D.O. Philadelphia College of Osteopathic Medicine</i>	Assistant Dean for Clinical Education (RowanSOM)
Scully, Joseph F., Jr. <i>B.S., M.B.A., LaSalle University; CPA</i>	Senior Vice President for Finance/CFO
Shapiro, Deborah <i>BS Fashion Merchandising, University of Delaware, 2003, MS Arts Administration, Drexel University, 2011</i>	Director of Presenting and Community Engagement, College of Performing Arts
Showers, Joanne <i>B.S. Seton Hall</i>	Managing Administrative Assistant, Office of the Vice President for Employee and Labor Relations
Shuda McGuire, Kristy <i>B.S., Loyola University, MD; M.S., Drexel University; Ph.D., Thomas Jefferson University</i>	Assistant Dean
Singleton, Dawn <i>B.S., MPA, EdD-Rowan</i>	Director of ASCEND
Sledjeski, Eve <i>B.S., Mary Washington College; M.A., Kent State University; Ph.D., Kent State University</i>	Assistant Dean
Sosa, Horacio <i>B.S., UNLP, Argentina; M.S., Stanford University; Ph.D., Stanford University,</i>	Vice President, Division of Global Learning and Partnerships
Stamatiades, Nicholas <i>MBA, CMPE</i>	Director, Operations and Principal Business Officer (CMSRU)
Stevenson, Sheila <i>B.A., Rochester Institute of Technology</i>	Director of Sports Information
Stewart, Melanie <i>B.A. Webster College, Theatre Conservatory; M.F.A. Temple University</i>	Associate Dean, College of Performing Arts
Sukumaran, Beena <i>B.S., Trivandrum Engineering College, India; M.S., Auburn University; Ph.D. Purdue University</i>	Vice President for Research
Tallarida, Ronald J. <i>B.A., Temple University</i>	Vice President for University Advancement
Talley, Lee <i>B.A., Cornell University; M.A., Ph.D., Princeton University</i>	Dean, Honors College
Taylor, Tyrone <i>A.S., Pierce College; B.S., Glassboro State College; M.A., Rowan University</i>	Director of Campus Security and Student Programs
Tharp, Jenn <i>M.A. Rowan University</i>	Graduate Research Service Specialist
Tinnin, Drew <i>B.A., Southeast Missouri State University; M.A., Bowling Green State University, Ed.D. Rowan University</i>	Associate Vice President for Student Life
Troiani, Francis <i>B.S. in Computer Science, Master of Engineering Management, Rowan University</i>	Associate Director of Strategic Planning and Management
Trowsdale, Jeremy <i>B.S.</i>	Director of Employee Learning and Development
Tucker, Charles B <i>M.A.</i>	Director for Graduate Medical Education (RowanSOM)
Tweedie, Sanford <i>B.A., University of Michigan; M.A., Eastern Michigan University; Ph.D., University of Wisconsin-Milwaukee</i>	Dean, College of Communication and Creative Arts
Varela, Tomas <i>B.S., Temple University; MPH, The George Washington University</i>	Advisor, Office of Health Professions
Veacock, Peggy <i>B.A., Rowan University</i>	Director of Advancement/Administrator, Rowan University Foundation

Executive Administration

Waddington, James <i>B.S., Saint Peter's College; M.A. Montclair State University</i>	Director of University Housing Systems and Logistics
Walsh, Susan <i>N/A</i>	Managing Administrative Assistant, University Advancement
Waterhouse, Barry <i>Ph.D. Temple University School of Medicine</i>	Cell Biology and Neurosciences, Chairperson (RowanSOM)
Watkins, Paula <i>M.A.S., Fairleigh Dickinson, BA, Alderson-Broaddus College</i>	Assistant Dean for Admissions (RowanSOM)
Weinstein, Steven David <i>J.D.</i>	Executive Vice President for Policy and External Relationships/Partnerships
Wheatcroft, Melissa <i>J.D. Rutgers Camden; B.A., Saint Joseph's University</i>	General Counsel
Whetstone, Mui <i>B.S. University of Phoenix; MBA Eastern University</i>	Director, Pre-Award, Office of Sponsored Programs
Williams Shealey, Monika <i>B.S., University of South Florida M.S., University of South Florida Ed.S, University of Miami Ph.D., University of Central Florida</i>	Senior Vice President, Diversity, Equity and Inclusion
Willse, Christine <i>B.A., Thomas Edison State College; M.B.A., Norwich University</i>	Interim Associate Director of Financial Aid
Wilmes, Regina <i>M.Ed., Northeastern University, BS, Cornell University</i>	Registrar (RowanSOM)
Woodruff, John <i>B.A., St. Francis College; M.S., St. Joseph's University</i>	Director of Academic Success Center
Woodside, Scott <i>BSN, Villanova University; MSN & MBA, LaSalle University</i>	Interim Director for Wellness Center
Yurak, Tricia J. <i>B.S., Northern Kentucky University; M.S., Ohio University; Ph.D., Ohio University</i>	Associate Provost for Academic Affairs
Zabinski, John J. <i>M.B.A., Saint Joseph's University; B.S., Villanova University</i>	Senior Vice President for University Advancement/Executive Director, Rowan University Foundation
Zazzali, Robert <i>B.A., M.A., Glassboro State College (Rowan); M.A., Rutgers University</i>	Senior Vice President for Community and Economic Development
diNovi, Kristen <i>B.A., Montclair State University; M.Ed, Ph.D., Temple University</i>	Assistant Dean, Honors

General Information

Campus Buildings

301 High Street

The three story building is home to the Rowan University Art Gallery and is home to several academic offices and classrooms.

6 High Street

The former bank building is now home to the administrative offices of the College of Communication and Creative Arts.

Barnes & Nobles at Rowan University

Located on Rowan Boulevard, this now serves as the University Bookstore.

Bole Annex

Opened in the spring of 1970, Bole Annex houses the Department of Public Safety.

Bole Hall

Robert D. Bole Hall is the administrative center of the University. It contains the offices of the President, Provost, University finances, and The Office of General Counsel. It is named after former Dean Robert Bole.

Bozorth Hall

Named for a former registrar, Loriot Bozorth, the building was originally opened in 1954 as the campus demonstration elementary school. Today, Bozorth houses the College of Communication offices, Rowan Radio, Rowan TV, a distance learning classroom, film-editing facilities, a computer-equipped journalism newsroom, an advertising/PR client suite, a layout room and a computer-equipped writing laboratory.

Bunce Hall

The first building on campus, Edgar J. Bunce Hall was opened in 1923 and is named for a former president of the University. It is home to the departments of English, Foreign Languages and Literatures, Philosophy and Religion, and Theatre and Dance. This building also features classroom space and Tohill Auditorium.

Business Hall

Opened in 2017, Business Hall is on Rt. 322 and is home to nearly 2,000 business majors.

CREATES

Opened in 2017, the Center for Research and Education in Advanced Transportation Engineering Systems is located at the South Jersey Technology Park.

Camden Academic Building

The Camden campus is located in the historic First National Bank and Trust Company building and annex, on the corner of Cooper and Broadway, and serves as the heart of Rowan University's Camden campus. The Camden campus provides an array of services for students, faculty, and staff.

Campbell Library

Opened in 1995, the Keith and Shirley Campbell Library features 118,000-square feet of research, study, archive and office space. It provides connectivity to the campus network, enabling access to many databases and online resources. The Library was named the Keith and Shirley Campbell Library in recognition of the Campbells' generous gift of an endowment for the facility in 2000. The Departments of Sociology and Anthropology and the Department of Law and Justice are housed on the 5th floor.

Carriage House

Built in 1849 to service the Hollybush Mansion, this building now houses University Publications.

Cassady Maintenance Building

Opened in 1971, the Otto P. Cassady Maintenance Building, named for a former engineer in charge of maintenance, is the main office complex for maintenance operations.

Chamberlain Student Center

The Student Center opened in 1974 and serves as a campus focal point where students, faculty, staff and community members congregate for a wide range of events, services and functions. It houses offices for student organizations and publications as well as several administrative offices. The following facilities are located in the three-level center: the information desk, I.D. room, mailroom, an ATM machine, Eynon Ballroom, meeting and conference rooms and eating areas, including the dining hall, a food court, snack bar, outdoor dining terrace, Profs Place and the Owl's Nest Restaurant.

Cooper Medical School of Rowan University

The six story building, located in Camden, is home to Rowan's M.D. granting medical School.

Edgewood Park Apartments

This four-building complex houses 24 apartments. Four students live in each apartment, which contains two bedrooms, a living room, dining room, kitchen and bathroom.

Engineering Hall

Opened in 2017, it sits next to the Henry M. Rowan Hall, home of the College of Engineering.

Enterprise Center

Located on Rowan Boulevard, the Enterprise Center opened in 2013 and is home to the College of Graduate and Continuing Education.

Esby Gym

The Roland A. Esbjornsen Hall houses the gymnasium, swimming pool, classrooms and the Health and Exercise Science faculty offices. The building is named after a former chairman of the Health and Exercise Science Department.

Evergreen Hall

Evergreen houses 204 students. The building is three stories tall and is separated into two wings. Rooms are arranged in suites. Each suite contains two double bedrooms and a bath.

Hawthorn Hall

Formerly a student residence facility, Hawthorn Hall is one of the homes of the College of Communication.

Hering Central Heating and Cooling Plant

The J. Leonard Hering Heating Plant, named for a former superintendent of maintenance, houses the centralized heating and cogeneration equipment.

Herman D. James Hall

Herman D. James Hall, opened January 2006, is home to the College of Education. The three-story, 135,000-sq. foot building features academic distance-learning facilities, an early childhood development center and an assortment of labs and outreach centers as well as classroom space.

Holly Pointe Commons

Opened in 2017, HPC is a 1,400 bed residence hall built with private funds.

Hollybush Mansion

Built in 1849, the building was the site of the historic summit meeting between President Lyndon B. Johnson and Soviet Premier Alexei B. Kosygin in 1967. The building now serves as a museum and meeting center.

Laurel and Oak Halls

Laurel and Oak were the University's first residence halls. They have had multiple uses throughout the years. They are now home to a variety of administrative offices.

Memorial Hall

Opened in 1956, the building serves as the center for information (computer) resources, housing the campus help desk, Web Services and the Duplicating Center. A dance studio is also in the building.

Mimosa Hall

Mimosa accommodates 305 students. Rooms are arranged by suites, and each suite contains two to three double bedrooms and a bath.

Mullica Hall

Mullica accommodates 103 students. Rooms are arranged by suites, and each suite contains two double bedrooms and a bath.

Robinson Hall

Named after Thomas E. Robinson, a former Rowan University president, this is one of the largest classroom buildings on campus. It is home to several departments of the College of Liberal Arts & Sciences. The core of the building consists of classrooms and seminar rooms.

Rowan Boulevard Apartments

Rowan Boulevard Apartments, is made up of two, four-story buildings that house 884 students in 28 one-bedroom efficiency units and 214 four-bedroom suites. The suites include two bathrooms, a kitchen, breakfast nook and living room area. The complex also contains exercise and weight rooms, meeting rooms, laundry facilities and a Public Safety satellite office.

Rowan Hall

Opened in January 1998, Henry M. Rowan Hall is the home of the College of Engineering. The 95,000-sq. foot building features three floors of offices, classrooms, labs and the 115-seat Betty Rowan Auditorium.

Sangree Greenhouse

Built in 1923, the John Sangree Greenhouse is one of the oldest structures on campus. A preservation and renovation project was completed on this facility in 1998.

Savitz Hall

Originally the University library, this building was completely renovated to house all of the student service functions, including the offices of the vice president for Student Affairs, Dean of Students, Career and Academic Planning, Developmental Education, Tutoring, Basic Skills/Testing, Admissions, Counseling, EOF/MAP, Registrar, Financial Aid, Revenue and Collections, Residential Learning & University Housing, Multicultural/International Affairs, Specialized Services, the Center for Service Learning and Volunteerism, the Honors Program and Women's Studies. The building is named after Jerohn Savitz, the University's first president.

Science Hall

Dedicated in 2003, the facility features the 102-seat Edelman Planetarium, a rooftop observatory with 16-inch telescope, a rooftop greenhouse, 27 teaching laboratories and 22 research labs. Its 150,000 square feet of space is spread over three floors. Housed here are offices for the departments of Biology, Chemistry and Biochemistry, and Physics and Astronomy.

Shpeen Hall

Alvin Shpeen Hall is located one block off of the east corner of campus, on Academy Street. The University purchased the former elementary school building from Glassboro and refurbished it to house offices. Today, Shpeen Hall is home to the R. Grace Bagg Alumni Center and the Rowan Foundation. Alvin Shpeen was a mayor of Glassboro. It is home to University Advancement, including Alumni Relations.

South Jersey Technology Park at Rowan University

The Samuel H. Jones Innovation Center is a 45,000 square-foot facility located at the South Jersey Technology Park on Rowan's West campus that provides engineering laboratory, web-laboratory and technology company incubation all within a single facility. In partnership with Rowan's College of Business, the Technology Park offers collaboration and consulting services, product feasibility, development and commercialization services, training seminars and continuing education courses in entrepreneurship for new and established businesses.

Stratford Campus

Home to Rowan's D.O. granting medical school.

Student Recreation Center

"Opened in 1993, the Student Recreation Center is a comprehensive recreation sports facility. The three-story, 76,000-square-foot building houses an eight-lane swimming pool, a three-lane indoor running track, a three-court multi-sport gym, five racquetball courts, an aerobics room, fitness and free-weight rooms, a conference room and complete locker/shower room facilities. Administrative offices coordinate various programs, including informal sports, intramural sports and fitness activities for students, faculty and staff."

Team House

Opened in 1971, the Team House contains locker rooms; training facilities; and intercollegiate athletics, coaching and staff offices. It was renovated and expanded in 2013.

The North Halls: Chestnut, Magnolia and Willow Halls

These buildings house 750 students. Students live in suites and share restroom facilities.

Townhouses

Opened in 2004, the on-campus, 113-unit townhouse complex along Route 322 features four- and six-bedroom configurations convenient to classes and other activities. The complex was built adjacent to a new parking garage and 5,000-square-foot community center with laundry facilities, a game room and meeting space.

Triad Apartments

Triad features 81 apartments which are carpeted, air-cooled and furnished. A variety of apartment types are available to accommodate 288 students in a co-ed living environment.

Victoria Hall

Located near Rowan Boulevard, Victoria Hall is home to College of Communication and Creative Arts programs.

Wellness Center

Seymour Winans Hall is named for a former faculty member. It is now home to Counseling & Psychological Services and the Wellness Center, formerly the Student Health Center.

Westby Hall

Completed in 1967, the Cleve O. Westby Hall Arts Building, named in honor of the former director of county and state college construction, contains art studios for ceramics, sculpture, jewelry/metals, painting, printmaking and photography, computer labs, classrooms, a lecture hall for 110 students, exhibition galleries, and faculty offices.

Whitney Center

Located on Rowan Boulevard, the Whitney Center (opened 2012) features stores on the 1st floor and student housing on top. It is also home to the Thomas Bantivoglia Honors Program and student apartments.

Wilson Hall

Harold Wilson Hall, named after a former faculty member, opened in 1972 and is primarily home to the performing arts. The building contains two large rehearsal rooms, Boyd Recital Hall, practice rooms, classrooms, two student lounges, a music library, faculty offices, the concert box office and W. Clarke Pfleeger Hall—a 1,000 seat auditorium. The dean of the College of Fine & Performing Arts, and Music Department are also located in the building.

General Information

Administrative Offices Telephone Numbers

Academic Success Center	856.256.4259
Admissions (Undergraduate)	856.256.4200
Admissions - Graduate (Rowan Global)	856.256.4747
Alumni Engagement	856.256.5400
ASCEND (formerly EOF/MAP)	856.256.4080
Bursar	856.256.4150
Camden Campus	856.361.2900
Campbell Library	856.256.4800
Campus Activities	856.256.4696
Community Standards	856.256.4242
Conference and Event Services	856.256.5446
Counseling Center	856.256.4222
Dean, Business	856.256.4025
Dean, Communication & Creative Arts	856.256.4340
Dean, Education	856.256.4750
Dean, Engineering	856.256.5300
Dean, Humanities & Social Sciences	856.256.5840
Dean, Performing Arts	856.256.4551
Dean, Science & Mathematics	856.256.4850
Disability Resources	856.256.4234
Financial Aid	856.256.4250
Information Resources & Technology	856.256.4401
Main Switchboard	856.256.4000
Multicultural & Inclusion Programs	856.256.4448
Office of Academic Affairs	856.256.4011
Office of Career Advancement (OCA)	856.256.4456
Office of Health Professions	856.256.5813
Office of Social Justice, Inclusion and Conflict Resolution	856.256.5495
Office of Student Life & Leadership Programs	856.256.4283
Owl's Nest	856.256.4932
President	856.256.4100
Provost	856.256.4108
Public Safety (emergency)	856.256.4911
Public Safety (non-emergency)	856.256.4922
Recreation Center (Main Office)	856.256.4900
Registrar	856.256.4350
Residential Learning & University Housing	856.256.4266
Rowan Global Office of Advising & Student Information Services	856.256.5435
Student Center	856.256.4601
SVP Finance & CFO	856.256.4125
Testing Center	856.256.4263
Tutoring Center	856.256.4460
Veterans Affairs	856.256.4233
Volunteerism, Community Engagement & Commuter Services	856.256.4595
VP University Advancement	856.256.4095
VP Global Learning & Partnerships	856.256.5185
VP University Relations	856.256.4240
Wellness Center Main Number (formerly Student Health Center)	856.256.4333

Directions to Campus

Directions to Campuses

For GPS, use the street address for each of our campuses as indicated below

Main Campus - Glassboro

201 Mullica Hill Road, Glassboro, NJ 08028

Cooper Medical School of Rowan University (CMSRU)

401 South Broadway, Camden, NJ 08103

Rowan University @ Camden - Bank Building

129 North Broadway, Camden, NJ 08102

Rowan University School of Osteopathic Medicine (SOM)

One Medical Center Drive, Stratford, NJ 08084

West Campus - Tech Park

107 Gilbreth Parkway, Mullica Hill, NJ 08062

The Emeriti

Adams, Ethel M. (1968-1984) Psychology <i>B.A., Eastern Michigan University; M.A., University of Michigan; Ed.D., University of Pennsylvania</i>	Professor
Addison, Carolyn (1967-1991) Health and Physical Education <i>B.S., James Madison University; M.A. New York University; Ed.D., Temple University</i>	Professor
Alvino, Esther (1966-1987) Elementary Education <i>B.A., M.A., Glassboro State College</i>	Assistant Professor
Ambacher, Jr., Richard J. (1967-2000) Communication Studies <i>B.A., Glassboro State College; M.F.A., Yale University</i>	Professor
Amer, Khaled 1983-2014 Math and Computer Science <i>B.S., Cairo Univ.; M.S C., Concordia Univ.; M.S., Ph.D., University of Waterloo</i>	Assistant Professor
Amme, Linda (1968-1990) Special Education Services and Instruction <i>B.A., M.A., Glassboro State College</i>	Assistant Professor
Andersen, Donald (1970-1998) Special Education Services and Instruction <i>B.A., M.Ed., Rutgers University</i>	Assistant Professor
Applebaum, David 1973-2011 Department of History <i>B.A., Brooklyn College; M.A., Ph.D., University of Wisconsin-Madison</i>	Professor
Avril, Edwin (1959-1982) Music <i>B.A., San Francisco State College; M.A., Ed.D., Teachers College, Columbia University</i>	Professor
Bao, Da-Hsien 1995-2015 Department of Accounting and Finance <i>B.S., Fu Jen Catholic University, M.B.A., PhD University of Southern California</i>	Professor
Bartelt, Pearl W. (1972-1999) Sociology and Dean <i>B.S., M.A., Ph.D., Ohio State University</i>	Professor
Behm, Edward 1971-2002 Department of Geography, Planning & Sustainability <i>B.A., M.A., Bowling Green State University</i>	Assistant Professor
Bender, Aaron (1964-1991) Department of History <i>B.A., Brooklyn College; M.A., Ph.D., New York University</i>	Professor
Benevento, Jacqueline D. (1993-2010) Department of Teacher Education <i>B.A., Montclair State; M.A., Middlebury College; Ed.D., Temple University</i>	Assistant Professor
Beverly, Leah (1958-1984) Health and Physical Education <i>B.S., Southwestern Louisiana College; M.A., N.Y.U.; Ed.D., University of So. Mississippi</i>	Professor
Bianchi, John (1967-1990) Education <i>B.S., Villanova Univ.; M.Ed., Rutgers Univ.; Ed.D., Temple University</i>	Coordinator of Research

The Emeriti

Bisazza, Gaetano R. (1966-2000) Biological Sciences B.S., <i>LaSalle College</i> ; M.S. <i>Villanova University</i>	Assistant Professor
Blough, Robert (1963-1995) Elementary Education B.S., <i>Juniata College</i> ; M.Ed., <i>Temple University</i> ; Ed.D., <i>University of Pennsylvania</i>	Professor
Bolay, Brenda (1968-1997) Health and Exercise Science B.A., <i>University of Michigan</i> ; M.Ed., <i>State University of New York, Buffalo</i> ; Ph.D., <i>University of Maryland</i>	Associate Professor
Borgen, Evelyn (1965-1991) Elementary and Early Childhood Education B.S., <i>Monmouth College</i> ; M.A., <i>Glassboro State College</i> ; Ed.D., <i>Fairleigh Dickinson Univ.</i>	Professor
Borowec, Alexander (1956-1988) Physical Sciences B.S., <i>Trenton State College</i> ; M.S., <i>University of Pennsylvania</i> ; Ed.D., <i>Temple University</i>	Professor
Brent, George (1971-2003) Elementary/Early Childhood Education B.A., Ed.M., <i>Boston University</i> ; Ed.D., <i>University of Massachusetts</i>	Professor
Breslin, Frederick (1960-1991) Psychology B.A., <i>Queens College</i> ; M.A., Ph.D., <i>New York University</i>	Professor
Brinker, Beula (1960-1984) Elementary Education B.S., <i>Glassboro State College</i> ; M.A., <i>New York University</i>	Assistant Professor
Brooks, Ellain (1965-1983) Math and Computer Science B.S., <i>North Carolina State</i> ; M.A., <i>Columbia University</i>	Assistant Professor
Brown, Estelle (1962-1992) Reading and Speech Correction B.S., M.A., <i>Glassboro State College</i> ; Ed.D., <i>Temple University</i>	Professor
Bruce E. Caswell 1989 Department of Political Science and Economics B.A., <i>University of Chicago</i> ; M.C.P., <i>University of Pennsylvania</i> ; Ph.D., <i>Rutgers University</i>	Associate Professor
Butcher, Ronald (1991-2009) Education Institute B.S., <i>Western Michigan University</i> ; M.A., <i>Eastern Michigan University</i> ; Ph.D., <i>University of Michigan</i>	Executive Director
Buzash, Gabriel (1964-1981) Elementary Education B.S., <i>Slippery Rock State College</i> ; M.S., <i>Westminster College</i> ; Ed.D. <i>Penn State University</i>	Professor
Byrd, Kimble (1984-2018) Department of Management and Entrepreneurship A.B., <i>Villanova University</i> ; J.D., <i>University of Pennsylvania</i>	Professor
Byrer, Josep (1968-1995) Technology B.S., M.S., <i>Indiana State University</i>	Assistant Professor
Cahill, Janet (1979-2013) Psychology B.S., <i>State University of New York at Oneonta</i> ; Ph.D., <i>Temple University</i>	Professor
Caldwell, Janet (1983-2016) Department of Mathematics B.A., <i>Rice University</i> ; M.A., <i>University of Pennsylvania</i> ; Ph.D., <i>University of Pennsylvania</i>	Professor

The Emeriti

Calliari, Carl (1968-2004) Education <i>B.A., M.A., Glassboro State College; Ed.D., Temple University</i>	Professor
Cammarota, Marie (1988-2008) Special Education Services/Instruction <i>B.A., M.A., Glassboro State College; Ed.D., Nova Southeastern University</i>	Associate Professor
Capasso, Ronald (1996-2002) <i>B.A., M.A., Montclair State College; Ed.D., Columbia University</i>	Associate Professor
Cell, Howard R. (1967-2000) Philosophy and World Religions <i>B.S., University of Wisconsin; M.A., San Jose University; Ph.D., Temple University</i>	Professor
Chalpoupka, Edward 1972-2019 Health and Exercise Science <i>B.S. Queens College, MS Queens College, PhD, Ohio State University</i>	Professor
Chang, Julia 1996 Department of Writing Arts <i>B.A., Stonehill College; M.S.J., Columbia University; M.A., Temple University</i>	Associate Professor
Chard, Daniel 1968-2016 Department of Art <i>B.F.A., Univ. of South Dakota; M.A., Northern State College; Ed.D., Columbia University</i>	Professor
Chaskes, Jay 1969 Department of Sociology and Anthropology <i>B.A., University of Toledo; M.A., Ph.D., Temple University</i>	Professor
Chung, Shifei (1997-2019) Department of Accounting and Finance <i>B.S., National Taiwan University; M.S., University of Wisconsin-Madison; Ph.D., University of Memphis; CPA</i>	Professor
Cimprich, Jack R. (1973-1998) Computer Science <i>B.A., Boston College; M.S., University of Pennsylvania</i>	Associate Professor
Cinaglia, Marianne B. (1994-2007) Secondary Education <i>B.S., Drexel University; M.A., Ph.D., University of Delaware</i>	Assistant Professor
Clapp, Robert A. (1969-2000) Theatre and Dance <i>B.A., Pennsylvania State University; M.A., Syracuse University</i>	Assistant Professor
Clark, Carol (1977-2010) Library <i>B.A., Regis College; M.S.L.S., Syracuse University; M.Ed., University of Lowell</i>	Librarian
Clowney, David (1988-2018) Department of Philosophy and World Religions <i>B.A., Calvin College; M.A., Wayne State University; M.Div., Westminster Theological Seminary; Ph.D., Temple University</i>	Professor
Cohen, Stanley (1961-1984) Educational Administration <i>B.S., Rutgers University; M.Ed., Ed.D., Temple University</i>	Professor
Collins, John (1963-1994) Communications <i>B.S., West Chester State College; M.A., Penn State University; Ed.D., Temple University</i>	Professor
Collins, John J. (1969-1999) Educational Leadership <i>B.A., M.A., Glassboro State College; J.D., Rutgers University</i>	Professor

The Emeriti

Combs, Ethel (1967-1995) Reading and Speech Correction <i>B.A., Douglass College; M.A., Glassboro State College; Ph.D., Temple University</i>	Associate Professor
Cone, Stephen L. (1999-2017) Health and Exercise Science <i>B.A., Jacksonville University; M.A., Appalachian State University; Ph.D., Texas A & M University</i>	Professor
Cone, Theresa Purcell (2007-2017) Health and Exercise Science <i>B.S., The College of New Jersey; M.Ed., Ph.D., Temple University</i>	Associate Professor
Covi, Adelyne (1964-1984) Elementary Education <i>B.S., Washington University; M.A., Glassboro State College</i>	Assistant Professor
Craver, Rhys (1963-1994) Chemistry and Physics <i>B.S., Millersville State College; M.S., University of Delaware; Ph.D., Walden University</i>	Associate Professor
Creamer, Marvin C. (1948-1977) Department of Geography, Planning & Sustainability <i>B.S., L.H.D., Glassboro State College; M.S., University of Pennsylvania; M.S., University of Wisconsin</i>	Professor
Crichlow, Joel 2001-2014 Computer Science <i>B.A., University of Guyana; M.Sc., Ph.D. University of the West Indies</i>	Associate Professor
Cuddy, Claudia 1998-2015 Department of Journalism <i>B.A., M.A., M.A., Glassboro State College</i>	Assistant Professor
Darrah, Gladys L. (1967-1979) Health and Physical Education <i>B.S., M.S., University of Wisconsin</i>	Assistant Professor
Dear, Edward C. (1969-2000) Health and Exercise Science <i>B.S., Temple University; M.A., East Stroudsburg State College; D.A., Middle Tennessee State University</i>	Associate Professor
Delaney, Lawrence (1964-1988) Physical Sciences <i>B.S., Trenton State College; M.S., Ed.D., University of Pennsylvania</i>	Professor
Detrick, Fred (1964-1987) Foundations of Education <i>B.A., M.S., Rutgers University</i>	Associate Professor
DiObilda, Nicholas 1972-2012 Reading <i>B.S., West Chester University; M.Ed., Univ. of Delaware; Ph.D., Ohio State University</i>	Professor
Dinsmore, Lee (1971-2002) Chemistry and Physics <i>B.S., M.A., Glassboro State College</i>	Professor
Donaghay, Robert (1963-1992) Academic Advising <i>B.S., University of Minnesota; Ph.D., University of Texas</i>	Assistant Professor and Coordinator
Donahue, Charles T. (1960-2000) Department of English <i>B.A., Texas A & M University; M.A., University of Texas; Ph.D., Temple University</i>	Professor
Donald Stoll 1992-2011 Department of Writing Arts <i>P.A. Valpariso Univ.; M.F.A., U of Texas at Austin, Ph.D. Indiana University.</i>	Associate Professor

The Emeriti

Doskow, Minna (1986-2002) English and Dean <i>B.S., M.S., City College of N.Y.; M.A., University of Connecticut; Ph.D., University of Maryland</i>	Professor
Douglas, Herbert (1980-2002) Department of Law & Justice Studies <i>B.S., Duquesne; M.S., Glassboro State College; Ph.D., University of Toledo</i>	Professor
Duff, Elizabeth R. (1959-1984) Psychology <i>B.S., Kent State Univ.; M.A., New York Univ.; Ed.D., University of Maryland</i>	Professor
Dugan, Ruth (1964-1981) Psychology <i>B.A., Washington Square College; M.A., Ph.D., New York University</i>	Professor
Elliott, Gene V. (1963-1998) Psychology <i>B.S., M.A., Michigan State University; Ph.D., University of Maryland</i>	Professor
Emerson, Robert (1966-1992) Professional Lab Exper. <i>B.R.E., United Wesleyan College; M.A., Glassboro State College</i>	Assistant Professor and Assistant Director
Engebretson, Herschel (1969-1988) Communications <i>B.A., Taylor University; M.A., University of Pennsylvania</i>	Assistant Professor
Enslin, William L. (1974-2000) Management and Entrepreneurship <i>B.E., University of Pennsylvania; Ed.D., Rutgers University</i>	Associate Professor
Fanslau, Martha C. (1971-1980) Library <i>B.A., University of Pennsylvania; M.A., Glassboro State College</i>	Librarian and Instructor
Farnelli, Donald 1968-2016 Department of Physics and Astronomy <i>B.S., Glassboro State College; M.Ed., Temple University; Ph.D., Union Graduate School</i>	Professor
Fopeano, Richard (1992-2018) Health and Exercise Science <i>B.S., SUNY College at Cortland; M.A., Ball State University; Ph.D., Temple University</i>	Associate Professor
Foster, Bruce (1970-2005) Reading <i>B.A., Trenton State College; M.S.Ed., Bucknell Univ.; Ed.D., Florida State University</i>	Professor
Frankl, Razelle (1983-2000) Management and Entrepreneurship <i>B.A., Temple University; M.B.A., Drexel University; M.A., Ph.D., Bryn Mawr College</i>	Professor
Friebis, George (1969-1993) Educational Media <i>B.S., M.Ed., Temple University; M.A., Glassboro State College; Ed.D., Nova University</i>	Director
Frisone, John (1973-2002) Psychology <i>B.A., Queens College; Ph.D., City University of New York</i>	Associate Professor
Fulginiti, Anthony (1976-2009) Public Relations and Advertising <i>B.A., Laurel Hill College; M.A., Villanova University; M.A., Glassboro State College; APR Fellow PRSA</i>	Professor
Gaer, Eleanor (1972-2014) Psychology <i>B.S., University of Wisconsin at Milwaukee; M.S., University of Wisconsin at Madison; Ph.D., University of Illinois; J.D., Rutgers-Camden</i>	Associate Professor

The Emeriti

Gallant, Mary J. (1992-2019) Department of Sociology and Anthropology <i>B.A., M.A., University of Missouri; Ph.D., University of Minnesota</i>	Associate Professor
Gallinelli, John (1969-2009) Department of Art <i>B.Ed., Keene State College; Ph.D., University of Maryland</i>	Professor
Gardiner, Dickinson (1967-1991) Secondary Education and Educational Foundations <i>B.A., Western Maryland College; M.Ed., Ed.D., Temple University</i>	Professor
Garrabrant, William (1973-2003) Interlibrary Loan and Science Librarian <i>B.A., Hamilton College; M.S.Ed., M.S.L.S., Syracuse University</i>	Head of Circulation
Garrahan, John (1965-1982) Special Education <i>B.A., City College of New York; M.S., Ed.D., University of Pennsylvania</i>	Associate Professor
Gaynor, William (1965-1987) Library <i>B.A., Georgetown University; M.A., Fairfield University; M.S., Villanova University</i>	Assistant Professor and Librarian
Gillespie, John (1972-1992) Communications <i>B.S., M.A., Glassboro State College</i>	Associate Professor
Glassberg, Rose (1964-1991) Secondary Education and Educational Foundations <i>B.S., West Chester State College; M.A., Middlebury College; Ph.D., Temple University</i>	Professor
Goldberg, Leon (1968-1988) Physical Science <i>B.S., City College of New York; M.S., New York University</i>	Associate Professor
Grace, James H. (1969-2000) Philosophy and World Religions <i>B.A., M.Th., Drew University; M.A., Ph.D., Temple University</i>	Professor
Graneto, Phillip (1970-2011) Theatre and Dance <i>B.A Catholic University; MFA Carnegie Mellon</i>	Professor
Granite, Bonita (-2017) Department of Music	
Green, Charles H. (1962-1993) Life Sciences <i>B.S., Penn State University; M.S., University of Delaware; Ph.D., Purdue University</i>	Professor
Greenspan, Bertram 1961-2012 Music <i>B.M., American Conservatory of Music; M.M., D.M., Indiana University</i>	Professor
Gruppenhoff, Richard (1981-2009) Radio, Television, and Film <i>B.A., Xavier University; M.A., Purdue University; Ph.D., Ohio State University</i>	Professor
Guerard, Michael P. (1971-1995) Technology <i>B.S., M.Ed., Ph.D., Texas A & M University</i>	Associate Professor
Gundaker, Isabelle (1983-2003) Composition and Rhetoric <i>B.A., Chestnut Hill College; M.A., Rutgers</i>	Instructor

The Emeriti

Gurst, Lawrence (1966-1993) Elementary Education <i>MA.A., M.Ed., Temple University</i>	Assistant Professor
Haba, James (1972-2003) Department of English <i>B.A., Reed College; Ph.D., Cornell University</i>	Associate Professor
Habte-Georgis, Berhe 1988-2013 Department of Marketing and Business Information Systems <i>B.B.A., Haile Selassie University; M.S., Loyola University; D.B.A., Louisiana Tech University</i>	Professor
Hamlet, Carolyn (1984-2012) Special Education Services and Instruction <i>B.S., University of Tennessee; M.Ed., Memphis State University; Ph.D., Temple University</i>	Assistant Professor
Harold, Lucius 1986-2018 Department of Marketing and Business Information Systems <i>B.A., M.B.A., Inter-American University; Ph.D., University of Washington</i>	Professor
Hartley, Stephen (2000-2015) Computer Science <i>B.A., Washington College, M.S., Ph.D. University of Virginia</i>	Associate Professor
Healy, Bartholomew (1985-2013) Theatre and Dance <i>B.A. College of the Holy Cross; M.F.A New York University</i>	Professor
Hewsen, Robert H. (1967-1999) Department of History <i>B.A., University of Maryland; M.S., Catholic University; Ph.D., Georgetown University</i>	Professor
Hitchner, Benjamin G. (1964-1998) Department of Political Science and Economics <i>B.S., Temple University; M.S., University of Pennsylvania</i>	Assistant Professor
Humbert, John J. (1969-1995) Technology <i>B.S., University of Maryland; M.Ed., Pennsylvania State University; Ed.D. Texas A&M University</i>	Professor
Husain, Syed (1960-1994) Biological Sciences <i>I.Sc., City Science College, Hyderabad; B.Sc., College of Agriculture, Osmania University, Hyderabad, India; M.S., Oklahoma State University; Ph.D., Cornell University</i>	Professor
Itzkowitz, Gary (1972-2016) Department of Mathematics <i>B.S., City College of New York; M.A., Ph.D., University of California.</i>	Professor
Itzkowitz, Martin 1989-2016 Department of Writing Arts <i>B.A., Brooklyn College; M.A., Ph.D., New York University</i>	Associate Professor
Jaeger, Peter (1966-1981) Communications <i>B.A., Mexico City College; M.Ed., University of Houston</i>	Associate Professor
Jam, Habib O. E. (1979-2013) Department of Political Science and Economics <i>B.A. 1965 Texas Tech. University Economics; M.A. 1967 Texas Tech. University, Economics; Ph.D. 1975 Southern Illinois University, Economics</i>	Associate Professor
Janice Rowan 1976-2011 Department of Writing Arts <i>P.A Rutgers Univ. M.A. University of Michigan</i>	Professor
Jeffrey, Linda (1973-2002) Psychology <i>B.A., University of Nebraska; M.A., Teacher's College Columbia University; M.A., University of Chicago; Ph.D., Rutgers University</i>	Professor

The Emeriti

Jensen, Ivar I. (1959-1981) Foundations of Education <i>B.Ed., Univ. of Connecticut; M.A., Middlebury College; Ed.D., Columbia University</i>	Professor
Johnson, Richard J. (1971-2000) Department of Political Science and Economics <i>B.A., M.A., Cert. of Russian Institute; Ph.D., Columbia University</i>	Associate Professor
Johnson, Theodore B. (1990-1999) Educational Leadership <i>B.S., M.A., Temple University; Ed.D., Rutgers University</i>	Associate Professor
Johnson, Christine (1989-2002) <i>B.A., M.A., University of Wisconsin; Ed.D., Rutgers University</i>	Professor
Jorgensen, Donna W. (2000-2014) Education <i>B.S., West Chester State College; M.A., Villanova University; Ed.D., Widener University</i>	Associate Dean
Kaleta, Kenneth 1989-2016 Department of Radio, Television and Film <i>B.A., M.A., Villanova University; Ph.D., New York University</i>	Professor
Kapel, David (1988-2002) Secondary Education and Foundations <i>B.S., M.Ed., Ed.D., Temple University</i>	Professor
Kardas, William (1968-2000) Library <i>B.S., M.L.S., Villanova University</i>	Head Reference Librarian
Kasserman, David 1973-2019 Department of Sociology and Anthropology <i>B.A., Indiana University; M.A., Ph.D., University of Pennsylvania</i>	Associate Professor
Keller, Horace (1960-1986) Psychology <i>B.S., West Chester University; M.Ed., Ed.D., Temple University</i>	Professor
Kelly, Michael F. (1961-1998) Theatre and Dance <i>B.A., Elmhurst College; M.A., Ph.D., State University of Iowa</i>	Professor
Kershner, E. Theodore (1968-1998) Health and Exercise Science <i>B.S., Ursinus College, M.Ed., Temple University</i>	Assistant Professor
Kirner, Clara (1971-1994) Library <i>B.A., Rutgers University; M.A., Drexel University</i>	Librarian
Klanderman, John (1986-2005) Special Education <i>B.A., Calvin College; M.A., Ph.D., Michigan State University</i>	Professor
Kress, Lee 1973-2011 Department of History <i>B.A., Johns Hopkins University; M.A., Ph.D., Columbia University</i>	Associate Professor
Kushner, William (1970-1999) Communication Studies <i>B.A., Montclair State College; M.A., Temple University; Ph.D., Indiana University</i>	Professor
Kyj, Larissa (1992-2018) Department of Accounting and Finance <i>B.A., Fordham; M.A., Ph.D., Columbia University; CPA; CMA</i>	Professor

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Leder, George (1972-2000) Chemistry and Biochemistry <i>B.S., Brooklyn College; Ph.D., Rutgers University</i>	Assistant Professor
Lee, Elaine (1967-1994) Elementary/Early Childhood Education <i>B.S., M.A., Trenton State College; Ed.D., Temple University</i>	Associate Professor
Lemaire, Denyse 1998-2014 Department of Geography, Planning & Sustainability <i>M.A., Ph.D., Université Libre de Bruxelles</i>	Professor
Leshay, Steven V. (1978-1999) Marketing <i>B.A., Lenoir Rhyne College; M.A., Glassboro State College; Ph.D., Temple University</i>	Associate Professor
Levinowitz, Lili (1989-2017) Department of Science, Technology, Engineering, Art and Mathematics (STEAM) <i>B.M., Westminster Choir College; M.M., Ph.D., Temple University</i>	Professor
Libro, Antoinette (1968-2002) Communication <i>B.A., Glassboro State College; Ph.D., New York University</i>	Dean and Professor
Lint, Jerry N. (1964-1998) Department of Geography, Planning & Sustainability <i>B.S., Clarion State College; M.Ed., Pennsylvania State University</i>	Assistant Professor
Loigman, Barry M. (1970-1999) Psychology <i>B.A., M.A., Temple University; Ph.D., Rutgers University</i>	Associate Professor
Longacre, David (1961-1989) Education <i>B.A., Gettysburg College; M.S., University of Pennsylvania</i>	Assistant Registrar
Lynch, Robert D. (1973-1999) Management and Entrepreneurship <i>B.S., M.S., Ph.D., Carnegie-Mellon University; SPHR</i>	Professor
Markowitz, Diane 1993-2011 Department of Sociology and Anthropology <i>B.A., Tufts University; D.M.D., Tufts University School of Dental Medicine; Ph.D., University of Pennsylvania</i>	Associate Professor
Martin, Doris (1976-1987) Home Economics <i>B.S., Penn State University; M.S., Cornell University; Ed.D., Temple University</i>	Assistant Professor
Martin, Marilyn (1995-2004) Library Services <i>B.A., M.L.S., University of Washington; M.A., University of Arkansas; Ph.D., Texas Woman's University</i>	Dean
Martínez-Yanes, Francisco (1966-2008) Department of World Languages <i>M.A., University of Rome, Italy; Diplôme, Alliance Française, Paris, France; Ph.D., University of Pennsylvania</i>	Professor
McConnell, Helen (1965-1995) Home Economics <i>B.S., State University College, Oneonta, NY; M.A., Columbia University; Ph.D., Michigan State University</i>	Professor
McCarran, Virginia E. (1968-1985) Home Economics <i>B.A., M.Ed., Rutgers University</i>	Assistant Professor
McHenry, Sandra L. 1993-2000 <i>R.N., Helene Fuld School of Nursing; B.A., Rowan College of NJ; M.S., University of Delaware; D.N.Sc., Widener University</i>	Associate Professor

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McKenzie, James J. (1954-1980) Department of English <i>B.A., Canisius College; M.A., Ph.D., Harvard University</i>	Professor
McMeniman, Linda 1986-2000 <i>B.A., New York University; M.A., Ph.D., University of Berkeley</i>	Associate Professor
Meagher, Richard (1969 -2008) Biological Sciences <i>B.S., M.S., Fairleigh Dickinson University; Ph.D., St. Bonaventure University</i>	Professor
Mercier, J. Denis (1967-2002) Communication <i>B.A., Marian College; M.A., Niagara University; Ph.D., University of Pennsylvania</i>	Professor
Meric, Gulser (1987-2019) Department of Accounting and Finance <i>B.A., Ankara University; M.S., Ph.D., Lehigh University</i>	Professor
Meyers, Dorothy (1967-1985) Library <i>B.A., State University of Iowa; M.L.S., Rutgers University</i>	Assistant Professor and Librarian
Mical, Agnes (1968-1996) Health and Exercise Science <i>B.S., M.S., West Chester University</i>	Assistant Professor
Michaelson, James (1967-1991) Secondary Education and Education Foundations <i>B.S., M.A., Temple University</i>	Assistant Professor
Micklus, Samuel C. (1968-1991) Technology <i>B.S., Philadelphia College of Art; M.A., Trenton State College; Ed.D., New York University</i>	Professor
Miller, Allen 1976-2000 College of Communication <i>B.S., M.S., SUNY-Oswego</i>	Chief Engineer, WGLS, College of Communication
Mitchell, Robert D. (1965-1997) Department of Mathematics <i>B.S., M.A., University of Texas</i>	Associate Professor
Monahan, Thomas (1984-2009) Educational Leadership <i>B.A., LeMoyne College; Ed.M., Ed.D., Rutgers University</i>	Professor
Monroe, Gerald (1968-1986) Department of Art <i>B.S., M.A., Ed.D., New York University</i>	Associate Professor
Moore, Elizabeth (1972-2002) Biological Sciences <i>B.Sc., Rollins College; M.S., Ph.D., Cornell University</i>	Professor
Moore, Oscar (1971-2003) Health and Exercise Science <i>B.S., M.S., Southern Illinois University</i>	Assistant Professor
Moore, Edward 2007-2017 Department of Public Relations and Advertising <i>B.A., M.A., Glassboro State College (Rowan University); APR</i>	Professor
Morford, Ida B (1956-1981) Psychology <i>B.S., Geneseo State College; M.A., Ph.D., Ohio State University</i>	Professor

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Moss, Janet	Associate Professor
Education <i>B.S., Northwestern University; Ed.M., Harvard University; Ed.D., University of California at Los Angeles</i>	
Mosto, Patricia (1993-2009)	Professor
Biological Sciences <i>National Teacher Certification, Teachers College N6; Licenciada in Biology (M.S.), University of Buenos Aires; M.A. equivalent, University of Texas at Austin; M.S., Drexel University; Ph.D., University of Buenos Aires</i>	
Moyer, Mel (1967-2000)	Associate Professor
Psychology <i>B.A., Glassboro State College; M.Ed., Temple University; Ed.D., Rutgers University</i>	
Murashima, Kumiko (1971-2007)	Associate Professor
Department of Art <i>B.F.A., Women's College of Fine Arts, Japan; M.F.A., Indiana University</i>	
Myers, John (1973-2011)	Professor
Department of Sociology <i>B.S., Drexel University; M.A., Ph.D., Fordham University</i>	
Neff, George (1962-2000)	Professor
Department of Art <i>B.S., Kutztown University; M.A., Columbia University; Ed.D., Pennsylvania State University</i>	
Newland, Robert 1983-2012	Professor Emeriti
Department of Chemistry & Biochemistry <i>B.A., Kalamazoo College; Ph.D., Wayne State University</i>	
Nichols, Lola (1960-1986)	Assistant Professor
Elementary Education <i>B.S., Trenton State College; M.A., Columbia University; M.A., Glassboro State College</i>	
Ognibene, Gerald (1972-2008)	Professor
Special Education <i>B.A., Niagara University; M.S., Canisius College; Ph.D., Ohio State University</i>	
Okorodudu, Corann (1968-2011)	Professor
Psychology <i>B.A., Cuttington College, Liberia.; M.Ed., Ph.D., Harvard University</i>	
Oliver, Harold 1979-2011	Professor
Music <i>B.M., Peabody Conservatory; M.M., Yale Univ.; Ph.D., Princeton University</i>	
Orlando, Frank J. (1972-2008)	Associate Professor
Foundations of Education <i>B.S., M.S., SUNY-Buffalo; Ed.D., West Virginia University</i>	
Pagell, Francesca Louise (1998-2012)	Assistant Professor
Health and Exercise Science <i>B.A., M.Ed., Ed.D., Temple University</i>	
Palladino, Mary Anne (1964-1994)	Professor
Communications <i>B.A., Immaculata College; M.A., Villanova University</i>	
Parker, Richard 1990-2013	Professor
Department of Marketing and Business Information Systems <i>B.A., Queens College; M.B.A., Rutgers University; Ph.D., City University of New York</i>	
Pastin, John R. (1998-2017)	Professor
Department of Music <i>B.S., University of the State of New York; M.M., Northwestern University</i>	
Perry, Wilhelmina E. (1968-1997)	Professor
Sociology <i>B.A., Tilton College; M.A., Howard University; Ph.D., University of Texas</i>	

The Emeriti

Pickett, Ethel (1968-1987) Home Economics <i>B.S., University of Delaware; M.Ed., University of Maryland</i>	Assistant Professor
Pike, Frank (1964-1987) Department of English <i>B.A., Suffolk University; M.A., Boston College; M.Ed., State College at Boston</i>	Assistant Professor
Pizzillo, Joseph 1971-2018 Department of Interdisciplinary and Inclusive Education <i>B.A., M.A., SUNY-Albany; L.A.S.M.A., Universidad Nacional Autonoma de Mexico; M.S., M.A., Ph.D., University of Wisconsin-Madison</i>	Professor
Porterfield, Richard (1961-1998) Department of History <i>B.A., Johns Hopkins University; M.A., University of Pennsylvania; Ph.D., Temple University</i>	Associate Professor
Prieto, Andrew (1971-2008) Biological Sciences <i>B.A., Rutgers University; M.S., New Mexico State University; Ph.D., University of Missouri</i>	Professor
Pritchard, Robert 1971-2011 Department of Accounting and Finance <i>B.S., M.B.A., Drexel University, M.A., Ed.D., University of Pennsylvania</i>	Professor
Pujals, Enrique J. (1969-2000) Department of World Languages <i>B.A., M.A., Indiana State University; Ph.D., Rutgers University</i>	Professor
Putman, Mary Lee 1971-2011 Health and Exercise Science <i>B.S., SUNY College at Cortland; M.A., University of Maryland; Ph.D., Temple University</i>	Associate Professor
Rashiduzzaman, Mohammad (1973-2013) Department of Political Science and Economics <i>M.A. and B.A. (Hons) University of Dhaka, (Bangladesh); Post-doctoral (senior) fellowship, Columbia University, New York ; Ph.D, University of Durham, England</i>	Associate Professor
Reeves, Edwin C. (1968-1996) Reading <i>B.A., M.A., Glassboro State College</i>	Assistant Professor
Resnik, Benjamin (1965-1991) Communications <i>B.A., M.A., Glassboro State College</i>	Assistant Professor
Richardson, Herbert A. (1966-1998) Department of History <i>B.M., M.M., Yale University; M.A., Ph.D., University of Pennsylvania.</i>	Assistant Professor
Rios, Hector 1994-2019 Department of Educational Services and Leadership <i>B.A., University of Puerto Rico; M.S., State University of New York; Ph.D., Temple University</i>	Associate Professor
Robinette, Joseph (1981-2005) Theatre and Dance <i>B.A., Carson-Newman College; M.A., Ph.D., Southern Illinois University</i>	Professor
Robinson, Randall 1965-2000 <i>B.S., Ohio State University; M.S., University of Pennsylvania; Ed.D., Temple University</i>	Associate Professor
Rosenberg, Jerome J. (1973-2008) Special Education <i>B.A., Oswego State Teachers College; M.A., Columbia University; Ed.D., Temple University; Ph.D., Heed University, West</i>	Associate Professor
Ross, Linda Wabschall (1974-2017) Department of Management and Entrepreneurship <i>A.B., Lycoming College; M.A., University of Toledo; Ph.D., Wayne State University</i>	Professor

The Emeriti

Rowand, Edith T. (1966-2000) Health and Exercise Science <i>B.S., The King's College; M.S., West Chester State College</i>	Assistant Professor
Sakiey, Elizabeth (1974-2000) Reading <i>B.S., Eastern Michigan University; M.Ed., Ed.D., Rutgers University</i>	Professor
Schreiber, Elliott (1967-1995) Psychology <i>B.A., Upsala College; M.A., Bradley University; Ed.D., West Virginia University</i>	Associate Professor
Schultz, Charles 1972-2000 Chemistry and Biochemistry <i>B.S., University of Michigan; M.S., Ohio State University; Ph.D., University of Michigan</i>	Professor
Schwarz, Charles (1967-1999) Department of Mathematics <i>B.A., St. John's University; M.S., Fordham University; M.S., Adelphi University; Ed.D., Rutgers University</i>	Assistant Professor
Scott, Joanne (1989-2009) Biological Sciences <i>B.S., M.S., Bucknell University; M.A., Lehigh University; Ph.D., University of Texas, Medical Branch at Galveston</i>	Associate Professor
Scott, Richard 1972 Department of Geography, Planning & Sustainability <i>B.A., University of Cincinnati; M.A., Ph.D., Syracuse University</i>	Professor
Serfustini, Leonard 1971-1986 Department of Health and Physical Education <i>B.Ed., M.Ed., University of Buffalo; Ed.D., State University of New York</i>	Professor
Shawver, Murl C. (1958-1974) Life Sciences <i>B.S., Central Missouri State College; M.Ed., University of Missouri; Ed.D., Columbia University</i>	Professor
Shontz, Marilyn L. (1999-2009) Special Education Services and Instruction <i>A.B., Heidelberg College (Ohio); M.S. in L.S., Case Western Reserve University; Ph.D., Florida State University</i>	Associate Professor
Shrader, Edith (1959-1968) Early Childhood Education <i>B.S., M.S., Glassboro State College</i>	Demonstration Teacher
Simpson, Eugene (1975-2000) Music <i>B.M., Howard University; B.M., M.M., Yale University; Ed.D., Columbia University</i>	Professor
Sisco, Burton 1998-2018 Department of Educational Services and Leadership <i>B.A., M.Ed., University of Vermont; Ed.D., Syracuse University</i>	Professor
Sizemore, Warner (1966-1987) Philosophy and World Religions <i>B.A., East Tennessee State; M.A., Bob Jones University; M.A., Temple University; B.D., Lincoln University Theological Seminary</i>	Assistant Professor
Smith, Steward (1968-1983) Elementary Education <i>B.A., Rutgers University; M.Ed., Temple University</i>	Assistant Professor
Sorrentino, Carmela 1965-2009 Teacher Education (Early Childhood, Elementary Education, Subject Matter) <i>B.S., West Chester State College; M.Ed., Temple University</i>	Assistant Professor
Spear, Miriam (1967-1983) Secondary Education <i>B.A., M.S., Glassboro State College</i>	Assistant Professor

The Emeriti

Spencer, Sonia B. (1990-2016) Department of World Languages <i>B.A., Hunter College; M.A., Pennsylvania State University; Ph.D., Duke University</i>	Associate Professor
Stansfield, Charles 1966-2007 Department of Geography, Planning & Sustainability <i>B.S., West Chester University; M.S., Pennsylvania State University; Ph.D., University of Pittsburgh</i>	Professor
Stevens, Kathleen (1972-1998) Communication <i>B.A., Georgian Court College; M.A., Glassboro State College (Rowan)</i>	Associate Professor
Stoeckig, Keiko (1988-2017) Psychology <i>B.A., Bemidji University, Ph.D., Dartmouth University</i>	Assistant Professor
Stone, Don C. (1968-2000) Computer Science <i>E. Eng. Phys., Cornell University; M.S.E., Ph.D., University of Pennsylvania</i>	Associate Professor
Streb, Edward (1979-2017) Department of Communication Studies <i>B.S., M.A., Ph.D., Northwestern University</i>	Professor
Sullivan, Jane E. (1972-1999) Reading <i>B.S., Seton Hall University; M.S., Ed.D., State University of New York, Albany</i>	Professor
Taney, Mary C. (1967-1991) Department of History <i>B.A., College of Saint Teresa; M.A., Ph.D., Catholic University; Litt.D., Universita Cattolica del Sacro Cuore, Milan, Italy</i>	Professor
Tannenbaum, Margaret D. (1971-2000) Secondary Education <i>B.A., Bryan College; M.Ed., Ed.D., Temple University</i>	Professor
Tannenbaum, Theodore (1973-1998) Sociology <i>B.A., M.A., Brooklyn College; Ph.D., Purdue University</i>	Professor
Taylor, Albert (1964-1987) Foundations of Education <i>B.S., Trenton State College; M.Ed., Ed.D., Rutgers University</i>	Professor
Tener, Morton (1968-2008) Secondary Education <i>B.S., Rider College; M.S., University of Pennsylvania; M.S., Ed.D., Temple University</i>	Professor
Thomas J. Gallia 1970-2013 Secondary Education <i>B.A., M.A., M.A., Glassboro State College; Ed.D., Rutgers University</i>	Vice President Emeritus/Senior Advisor to the President
Thyhsen, John (1969-2000) Music <i>B.M., M.M., Eastman School of Music</i>	Professor
Tishler, Joseph (1964-2000) Department of Art <i>Cresson Scholar, Pennsylvania Academy of Fine Arts; B.F.A., M.F.A., University of Pennsylvania; D.A., Carnegie-Mellon University</i>	Professor
Tomei, Mario (1964-1995) Educational Administration <i>B.A., Montclair State College; M.S., University of Pennsylvania; Ed.D., Temple University</i>	Professor
Tracey, James H. (1994-2000) College of Engineering <i>B.S.E.E., M.S., Ph.D., Iowa State University</i>	Dean/Professor

The Emeriti

Travis, William (1971-2007) Department of Art <i>B.F.A., Philadelphia College of Art; M.F.A., Tyler School of Art</i>	Professor
Tsuji, Thomas (1969-1995) Technology <i>B.S., M.S., Stoudt State College; Ph.D., Michigan State University</i>	Professor
Viator, Martha 2006-2019 Language, Literacy & Sociocultural Education <i>B.A., University of Louisiana-Lafayette; M.A., Ph.D., Auburn University</i>	Associate Professor
Viator, Timothy 1994-2019 Department of English <i>B.A., M.A., University of Louisiana; Ph.D., Auburn University</i>	Professor
Vivarelli, Thomas (1967-2004) Special Education <i>B.A., Trenton State College; M.A., Glassboro State College</i>	Assistant Professor
Vogal, Hal (1984-2005) Public Relations and Advertising <i>B.A., Temple University; M.A., William Paterson College; Ph.D., Antioch University; APR</i>	Professor
Wade, Thomas 1976-2009 Music <i>B.M., Oberlin College; M.M., University of Connecticut</i>	Assistant Professor
Waring, Joseph C. (1966-1991) Physical Sciences <i>B.A., State Univ. of New York at Binghamton; M.S., State Univ. of New York at Oneonta; Ph.D., University of South Carolina</i>	Associate Professor
Washington, Judy (1971-2009) Teacher Education (Early Childhood, Elementary Education, Subject Matter) <i>B.A., Brooklyn College; M.Ed., Ed.D., Temple University</i>	Associate Professor
Weatherford, Bernadyne (1987-2012) Department of Political Science and Economics <i>B.A., M.A., Texas Tech University; Ph.D., University of New Mexico</i>	Associate Professor
Weiss, Leigh 1968-2011 Computer Science <i>B.S., M.S., Buffalo State University</i>	Associate Professor
Welsh, Charles (1973-1992) Marketing <i>B.S., Villanova University; M.B.A., Ph.D., University of Pennsylvania</i>	Professor
Welsh, Carol (1983-2018) Department of Accounting and Finance <i>B.S., M.B.A., Drexel University; Ed.D., University of Delaware; CPA, CIA</i>	Associate Professor
Westcott, Patrick (2003-2013) Department of Teacher Education (Early Childhood, Elementary Education, Subject Matter) <i>B.A. University of Minnesota; M.A., University of Connecticut; M.A., Fairleigh Dickinson University; Ed.D., Teachers College Columbia University</i>	Associate Professor
Whitcraft, John (1963-1987) Philosophy and World Religions <i>B.A., Asbury College; M.A., Temple University; B.D., Asbury Seminary; S.T.M., Boston University</i>	Professor
White, Edward H. (1973-2000) Educational Leadership <i>B.A., Keene State College; M.S., Indiana State University; Ph.D., University of Maryland</i>	Professor
Williams, Leonard J. (1990-2009) Psychology <i>B.A., University of Delaware; M.A., McMaster University, Hamilton, Ont.; Ph.D., University of South Carolina</i>	Associate Professor

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Winand, Lois (1971-1991) Home Economics <i>B.S., M.S., Drexel University; Ed.D., Pennsylvania State University</i>	Assistant Professor
Wolfe, Edward (1959-1994) Department of English <i>B.A., M.A., Ph.D., University of Pennsylvania</i>	Professor
Woods, Wellington (1967-1998) Chemistry and Physics <i>B.S., Glassboro State College; M.Ed., Rutgers University; Ph.D., Walden University</i>	Associate Professor
Wriggins, Thomas (1967-1992) Education <i>B.A., Glassboro State College; M.Ed., Temple University</i>	Assistant Professor and Director of Support Services
Yang, Catherine 1995-2018 Department of Chemistry and Biochemistry <i>B.S., Zhejiang University; M.S., Ph.D., Tufts University</i>	Professor Emeriti
Young, Walter Byron (1972-1997) Department of Art <i>B.A., M.A., Glassboro State College; Ed.D., Pennsylvania State University</i>	Professor
Young, Flora D. 1968 Department of Sociology and Anthropology <i>B.A., M.A., Howard University, Ed.D. University of Pennsylvania</i>	
Zahn, Richard (1960-1987) Foundations of Education <i>B.S., West Chester State College; M.Ed., Ed.D., Temple University</i>	Professor
Zalusky, Donald (1966-1991) Physical Sciences <i>B.S., M.A., University of Missouri; Ph.D., University of Delaware</i>	Associate Professor
Zimmerman, Donald (1961-1992) Elementary and Early Childhood Education <i>B.S., M.A., State University of New York, Buffalo; Ed.D., Temple University</i>	Professor
Zimolzak, Chester (1974-2007) Department of Geography, Planning & Sustainability <i>B.A., Pennsylvania State University; M.A., University of Wisconsin</i>	Associate Professor

Accreditations

Middle States Commission on Higher Education
AACSB International - The Association to Advance Collegiate Schools of Business
ABET - Computing Accreditation Commission
ABET - Engineering Accreditation Commission
American Association of Colleges of Nursing - Commission on Collegiate Nursing Education
American Chemical Society
American Osteopathic Association - Commission on Osteopathic College Accreditation
American Osteopathic Association - Council on Osteopathic Postdoctoral Training Institutions
Certification in Education for Public Relations - Public Relations Society of America
Commission on Accreditation of Athletic Training Education
Council for Accreditation of Counseling and Related Educational Programs
Council for Accreditation of Educator Preparation
Liaison Committee on Medical Education
National Association of School Psychologists
National Association of Schools of Art and Design
National Association of Schools of Music
National Association of Schools of Theatre
National Wellness Institute

Memberships

American Council on Education
American Association of State Colleges and Universities
Association of American Colleges & Universities
Association of Governing Boards of Universities & Colleges
AACSB: The International Association for Management Education
BioNJ
Council of Graduate Schools
National Association of Schools
Middle States Association of Colleges & Schools Inc.

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Accreditations
