



# Graduate Catalog 2009 -2010



Rowan University  
201 Mullica Hill Road  
Glassboro, NJ 08028

This catalog is also available online at [www.rowan.edu/catalogs](http://www.rowan.edu/catalogs)

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## Introduction

Graduate programs at Rowan University are administered by The Graduate School\*, which in coordination with the academic departments is responsible for handling students' inquiries, formal applications, course enrollment, and graduate assistantships.

Rowan University provides its graduate students with stimulating and challenging educational experiences, scholarly opportunities, and career development through the offering of one doctoral, one specialist, and twenty-six masters programs, leading to the following degrees: Doctor of Education (Ed.D.) in Educational Leadership, Ed.S. in School Psychology, Master of Arts (M.A.), Master of Business Administration (M.B.A.), Master of Education (M.Ed.), Master of Science (M.S.), Master of Music (M.M.), Master of Science in Teaching (M.S.T.), and Master of Engineering Management (M.E.M.).

Students also have the opportunity of pursuing one of two available Certificate of Advance Graduate Study (CAGS) programs and to choose among seventeen different Certificate of Graduate Study (COGS). In addition, The Graduate School is responsible for students pursuing any of three available Post-Baccalaureate Endorsement programs. A number of selected programs lead to licensure and/or certification by the New Jersey Department of Education.

In addition, the College of Professional and Continuing Education (CPCE) offers graduate level online, hybrid and off campus programs. To see the full range of CPCE programs and for contact information go to

The University is accredited by the Middle States Association of Colleges and Secondary Schools. Individual accreditations include a selected number of programs in the College of Education by the National Council for the Accreditation of Colleges of Teacher Education (NCATE), Rowan's M.B.A. by AACSB International The Association to Advance Collegiate Schools of Business and ABET The Accreditation Board for Engineering and Technology Inc, and the fine and performing arts programs by the Art-National Association of Schools of Art & Design, the Music-National Association of Schools of Music, and the Theatre-National Association of Schools of Theatre.

We hope you find this catalog useful as you plan and complete your program of study. We want your educational experience at Rowan to be both positive and rewarding, and to this end, if you need assistance or have questions, please do not hesitate to call your program advisor/coordinator and/or The Graduate School. We are here to help you.

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\*Available only online through the College of Professional & Continuing Education

\*\*Also available as a hybrid program through the College of Professional & Continuing Education

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\*Available only online through the College of Professional & Continuing Education

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## Rowan University in Brief

**Type:** Comprehensive, coeducational, non-sectarian, state-supported, founded in 1923

**Colleges:** Business, Communication, Education, Engineering, Fine and Performing Arts, Liberal Arts and Sciences, Professional and Continuing Education

**Degrees:** Bachelor of Arts, Bachelor of Fine Arts, Bachelor of Music, Bachelor of Science, Master of Arts, Master of Business Administration, Master of Education, Master of Engineering Management, Master of Music, Master of Science, Master of Science in Engineering, Master of Science in Teaching, Educational Specialist, and Doctor of Education

**Campuses:** Glassboro, NJ Main (approximately 20 miles southeast of Philadelphia, PA) Camden, NJ Branch

**Size:** Approximately 8,435 full-time and 2,727 part time students; approximately 574 full-time equivalent (FTE) faculty

### Tuition and Fees for Academic Year 2008-09

Tuition and fees are the same for in-state and out-state graduate students.

	<i>Graduate</i>	<i>Doctoral</i>
Tuition per semester hour (s.h.)	\$590	\$654
University fee per semester hour (s.h.)	\$124.90	\$124.90

For more details and for rates in the College of Professional and Continuing Education, please visit <http://www.rowan.edu/bursar/>.

## 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 university with a strong regional reputation.

In the early 1900s, many New Jersey teachers lacked proper training because of a shortage of schools in the state that provided training. To counter the trend, the state decided to build a two-year training school for teachers, known then as a normal school, in southern New Jersey.

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 South Jersey 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 residents of Glassboro raised more than \$7,000 to purchase 25 acres, which they offered to the state for free if they selected Glassboro as the site.

The land tract included the Whitney mansion 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.

In September 1923, Glassboro Normal School opened with 236 young women arriving by train to convene in the school's first building, now called Bunce Hall. Dr. Jerohn Savitz, the University'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

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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 to Glassboro State College to better reflect its mission.

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

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

The fifth president, Dr. Herman James, assumed the leadership of the college in 1984. Under his direction Rowan expanded by establishing the first doctorate 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.

In July 1992, industrialist Henry Rowan and his wife, Betty, donated \$100 million to the institution, then the largest gift ever given to a public college or university in the history of higher education. Later that year, the school changed its name to Rowan College of New Jersey. The college achieved university status in 1997 and changed its name to Rowan University.

To lead Rowan University into the 21st century, the Board of Trustees named Dr. Donald J. Farish as the sixth president in July 1998. Under his leadership, the university is working on an aggressive improvement plan that will give the university a national reputation for excellence and innovation and will make it the public university of choice in the region. The plan calls for a greater campus-wide focus on academic and student support initiatives as well as more than \$500 million being spent on campus construction and renovation projects.

Recent campus improvements include the construction of the university townhouses, Science Hall, Education Hall and the Innovation Center, the first building of the South Jersey Technology Park at Rowan University. The University has also seen a marked increase in private and alumni giving, as well as its student and institutional profile.

These efforts have caught the attention of national organizations that evaluate colleges and universities. US News & World Report ranks Rowan University in the "Top Tier" of Northern Regional Universities. Kaplan included the University in "The Unofficial, Biased Insider's Guide to the 320 Most Interesting Colleges." Also, Kiplinger's named Rowan University one of the "100 Best Buys in Public Colleges and Universities" and the Princeton Review included Rowan in the latest edition of "The Best Northeastern Colleges."

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Rowan University is divided into six academic colleges: Business, Communication, Education, Engineering, Fine & Performing Arts, and Liberal Arts & Sciences, a graduate school and the College of Professional and Continuing Education. Rowan's nearly 10,000 students can select from among 51 undergraduate majors, seven teacher certification programs, 27 master's degree programs and a doctoral program in educational leadership.

From the modest normal school begun more than 80 years ago, Rowan University has become an extraordinary comprehensive institution that has improved the quality of life for the citizens of New Jersey and the surrounding states.

### **The Rowan University Mission**

A leading public institution, Rowan University combines liberal education with professional preparation from the baccalaureate through the doctorate. Rowan provides a collaborative, learning-centered environment in which highly qualified and diverse faculty, staff, and students integrate teaching, research, scholarship, creative activity, and community service. Through intellectual, social and cultural contributions, the University enriches the lives of those in the campus community and surrounding region.

### **The Rowan Vision**

Rowan University, at the next level, will continue to focus on its commitment to learning and teaching, combining liberal education with professional preparation. Rowan will advance through the rankings of regional universities on the strength of its excellent undergraduate programs and its noteworthy development of a learning-centered environment. At the same time and without compromising the primacy of its focus on residential, undergraduate education, Rowan University will continue to build on its growing leadership in graduate and continuing professional education.

### **The Rowan Experience**

The pursuit of high qualitative standards for academic programs for Rowan University will be carried forward in the context of a philosophy that the ideal educational experience focuses on the development of students as whole persons while they are engaged in rigorous academic pursuits. While cultivating the complete intellectual, physical, emotional, social and cultural well being of all members of the University community, the Rowan experience is built upon residential learning communities, mentoring programs, a commitment to service learning and volunteerism, a required Rowan Seminar for incoming freshmen, and awareness of current findings in the study of student life. Additionally, the Rowan experience provides the opportunity for students to work closely with faculty and professional staff in research and professional activities. A principal goal at Rowan is to motivate all students to take responsibility for their own learning, which is the outlook most conducive to the strongest intellectual growth and development.

### **Organization Of The University**

Rowan University is led by a board of trustees made up of 15 lay citizens, two full-time, undergraduate students (one is a non-voting member), and the president of the university. The institution is organized into five divisions Academic Affairs, Student Affairs, Administration and Finance, University Advancement, and University Relations.

Academic Affairs, led by the provost, is comprised of six academic colleges, Business, Communication, Education, Engineering, Fine & Performing Arts and Liberal Arts & Sciences, a Graduate School, a college of Professional and Continuing Education and the Camden Campus. Student Affairs provides a variety of student and academic support services including housing and security. Administration and Finance ensures the day-to-day operations of the university, including budget management, capital construction and campus maintenance. University Advancement raises funds through private giving and builds ties with alumni. University Relations manages the institution's publications, marketing,

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web services, public relations, and media and community relations.

The University also has a very active Student Government Association. It oversees the activities of nearly 150 clubs and organization.

In addition to its Glassboro campus, the University maintains a branch campus in Camden, N.J. It also recently purchased 600 acres of land, located one mile from the main campus, for the future development of a west campus.

## **Graduate Education at Rowan University**

### **The Graduate School**

**Mira Lalovic-Hand, Director and Assistant Provost**

**Memorial Hall**

**(856) 256-4053**

**Lalovic-hand@rowan.edu**

The Graduate School mission is to provide programmatic leadership, coordination and administrative support for quality graduate programs and experiences at Rowan consistent with national, state and regional educational needs. Through graduate degree programs at the masters, specialist, and doctoral levels and through graduate certificate programs and graduate courses, The Graduate School expands academic opportunities for students to meet workplace, professional and personal desires for lifelong learning.

### **Staff of the Graduate School**

The staff can provide information about graduate programs and admissions procedures and can help students obtain additional academic advisement.

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**Jenn Colodney**

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**Coordinator**

**(856) 256-4027**

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## **Graduate Admissions**

To be admitted to a graduate program at Rowan University, an applicant must have a baccalaureate degree from a regionally accredited college or university in the United States or its equivalent from a foreign institution of higher education.

Each program has additional specific requirements. Please refer to your program of choice to learn more about admission requirements and timelines for application. Graduate applications are available for degree, certificate and certification programs online at:

[https://admin9.rowan.edu:44300/PROD/buskalog.P\\_DisplLoginNon](https://admin9.rowan.edu:44300/PROD/buskalog.P_DisplLoginNon)

### **Contact Information for the Graduate School**

The Graduate School, Memorial Hall, Glassboro, New Jersey 08028-1701; (856) 256-4050; fax (856) 256-4436; or online at [gradoffice@rowan.edu](mailto:gradoffice@rowan.edu).

### **Honors Admission for Rowan Students**

Rowan 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 above in their undergraduate coursework and meet all other admissions requirements.

### **Admissions Requirements for International Applicants**

In addition to the application requirements for all students as noted above, foreign or international applicants who have completed a baccalaureate degree at a college or university outside the U.S. are required to earn minimum scores of 213 (computer-based TOEFL) or 550 on the paper test (TOEFL) or 79 on the internet version of the TOEFL; provide evidence of immunization against measles, mumps, and rubella, and evidence of the ability to have medical insurance coverage during their proposed stay in the U.S. Applicants are further required to submit all application materials, including transcripts, diplomas, certificates, etc. translated into English.

International applicants must arrange with World Education Services to have at least a document by document review of their educational credentials. World Education Services must confirm that the applicant's undergraduate experience is the equivalent of four years of undergraduate study at an accredited U.S. college or university, culminating in the bachelor's degree. Also, foreign or international students are required to certify that sufficient funds to support their academic and personal living expenses during their stay in the U.S. are available. The F-1 visa is the only visa acceptable to Rowan University for purposes of admission. As a condition of continuing matriculation, foreign or international students are required to maintain full-time (at least 9 semester hours per term) enrollment in graduate courses leading to a degree.

### **Program Transfers**

Students wishing to transfer from one program to another should complete a transfer request form and return the form to The Graduate School. There is a 12 credit limit for courses which are transferred into a program, courses must not be more than 10 years old and students must have earned at least a 3.0 in transfer courses. Approval for transfer is given by the program advisor of both the exiting and receiving programs, department chair, college dean, and the Director of The Graduate School. The student must also meet the conditions established by the advisor of the program into which transfer is requested. Students with questions about program change or special requests should see the program advisor or the staff of The Graduate School. The six-year requirement for matriculated students to complete a program begins with the date of the initial enrollment in courses as a matriculated student

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in the program.

### **Restriction on Non-Matriculated Students**

Non-matriculated graduate students must apply for admission to a graduate program before completing nine hours of graduate credit if they wish to continue graduate study. The University reserves the right to specify what courses may be available for non-matriculated students and to establish certain minimum qualifications for enrollment in graduate courses and to restrict their course registrations. Most M.B.A. and M.S.T. graduate courses are not available to non-matriculated students.

No more than nine semester hours of graduate courses may be taken by non-matriculated students. No more than eight semester hours may be taken in any one semester.

### **Post-Baccalaureate Teacher Certification Programs**

Post-baccalaureate teacher certification programs are available in approved undergraduate teacher certification programs at the University. These programs are designed to provide initial teacher certification to candidates who may be graduates of an accredited college or university or certified teachers seeking an additional certification that does not require a masters degree. These programs require an earned bachelors degree in undergraduate programs with the same course requirements as Rowan's degree programs. Admission to post-baccalaureate teacher certificate programs is through the Graduate School Office at (256-4053).

Courses in post-baccalaureate programs are at the undergraduate level. Students accepted into the post-baccalaureate teacher certification program are restricted to a maximum of six semester hours of graduate course work. Registration in additional graduate courses requires the approval of The Graduate School director. Students who exceed this six semester hour maximum may have their registrations withdrawn.

## **Frequently Asked Questions about Graduate Study**

*How can I take a course before being accepted into a program?*

Some students prefer to 'try out' one or two graduate courses before applying to a program or to improve their academic or professional credentials. Non-matriculated students are permitted to accumulate nine credits (usually three courses) of graduate coursework. Non-matriculated students may register during the Extended Registration period if they provide proof of the award of the undergraduate degree. If students provide evidence of the award of a masters degree or higher, they will be permitted to register for non-reserved courses beyond the nine credits limit.

*Can I go part-time?*

A substantial number of students pursue degree or certification programs on a part-time basis. To accommodate these students, academic departments have scheduled most graduate courses in late afternoons and evenings. Most graduate courses meet once a week, usually from 4:30-7:00, 7:10-9:40, or 6:30-9:00 p.m. in the fall and spring semesters. The Registrar's Office prepares course schedules each semester which are available at

<http://www.rowan.edu/provost/registrar/courseschedule> , listing available courses and meeting times.

*What are the application deadlines?*

Most Rowan University graduate applications are accepted at any time of the year (rolling admissions). However School Psychology, Counseling in Educational Settings and the Writing programs have established two annual deadlines, October 15 for spring admissions decisions and February 15 for fall admissions. The Clinical Mental Health Counseling Program and the Master of Science in Teaching Program has only one annual deadline, February 15. For programs with rolling admissions, completed applications including required scores should be submitted at least two months before the beginning of

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the semester in which the student wishes to become matriculated.

*How are admissions decisions made?*

Applications cannot be reviewed by a program admissions committee until all required materials are received. Applicants will be notified of a decision as soon as possible by letter. Because of competition for available slots, students must be aware that complying with all admissions requirements does not guarantee acceptance.

Applicants are evaluated on the basis of multiple criteria: grade point average (both undergraduate and graduate); recommendations; standardized test scores and any additional criteria required by the program of choice, such as interviews, writing samples, etc., as listed in the application requirements in this catalog under individual program descriptions. Every effort is made to identify and admit those students who demonstrate clearly both the ability to benefit from the proposed program of study and the greatest promise of scholarly achievement by carefully examining a variety of different criteria.

*How long can I take to complete my program?*

Students have six years from the date they take their first course as a matriculated student to complete their graduate degree programs. Under certain circumstances, a one-time extension of up to one additional year may be granted.

*Can I get financial aid?*

Need-based financial aid for graduate students is administered by the Office of Financial Aid at Rowan University (256-4250). Matriculated students who are taking at least 4.5 credits may apply. Applications should be filed as soon as possible after January 1. Applicants are advised not to wait for an admission decision before applying for need-based financial aid. In addition, a limited number of graduate assistantships are available annually through The Graduate School. Applications are available in January prior to the fall semester of the next academic year. Successful applicants receive tuition waiver and a stipend in exchange for part-time employment on campus. Call The Graduate School (256-4050) for more information.

*What if I just want to get New Jersey teaching certification?*

At Rowan University, the post-baccalaureate program leading to regular initial New Jersey teaching certification is an undergraduate program. Individuals who seek additional certifications at the graduate level are encouraged to apply for program admission through The Graduate School.

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## **Additional Information for Graduate Students**

### **Office of the Provost**

**Ali A. Houshmand, Provost**

**Bole Hall**

**(856) 256-4108**

**houshmand@rowan.edu**

**James Newell, Associate Provost for Academic Affairs**

**(856) 256-4012**

**newell@rowan.edu**

**Robert Zazzali, Associate Provost for Faculty Affairs**

**(856)256-4110**

**zazzali@rowan.edu**

Rowan University is an institution of higher learning in which priority is given to the intellectual development of its students. Intellectual development is held to be important for its own sake, essential as part of preparation for future careers and significant for the personal growth of students. Further, the University is committed to an academic tradition that encourages research and provides public service as a function of its social responsibility.

All academic programs offered at Rowan University have broad perspectives affecting the mind, body and spirit of its students. Intellectual pursuits often are matched by experiential enrichment- field experience, work study and personal involvement.

Academic excellence is core to all programs at Rowan University. Our faculty has the requisite expertise to assure the currency and high quality of the curriculum. The academic administrators and professional staff are selected according to their experience and expertise in curriculum, policy, and leadership. Support staff is essential to a well- functioning division that aims to promote student learning.

Academic programs at Rowan University are reviewed, enhanced and/or modified regularly by the faculty to assure excellence and currency. Student learning outcomes assessment provide information to make changes where needed in the curriculum or to assure the excellence of programs. We seek accreditation or external review for academic programs to demonstrate quality.

The Academic Affairs Division is headed by the Provost or Chief Academic Officer. The Provost is responsible for leadership and oversight of academic programs, faculty affairs, library services, technology delivery and planning and the Rowan University Camden Campus. The Deans of the Colleges of Business, Communication, Education, Engineering, Fine & Performing Arts, Liberal Arts & Sciences, Professional & Continuing Education, and Library report to the Provost. The Director of the Graduate School, the Assistant Provost of Rowan at Camden, the Registrar, the Associate Provost for Academic Affairs, the Associate Provost for Faculty Affairs, the Associate Provost for Information Resources and the Directors of Financial Aid, Student Information Services, and Admissions also report to the Provost. The Provost reports directly to the President and is second in the chain of command at the University.



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## **Campbell Library**

**Bruce A. Whitham, Dean**  
**Campbell Library**  
**(856) 256-4800**  
**whitham@rowan.edu**

The Keith and Shirley Campbell Library, a 118,000 sq. ft. facility, houses more than 350,000 books, documents, multimedia materials, newspapers, and special collections. In addition, the library subscribes to an extensive number of online periodical and special information databases in support of the diverse academic programs and majors offered by the University. To provide needed complementary resources, print subscriptions are also held to key academic journals, with extensive backruns in microfiche, microfilm, and bound volumes.

The Library provides two major special collections, one of which is a depository collection of selected U.S. federal and State of New Jersey documents, available in both print and microform. The other is named in memory of Frank Stewart, a prominent New Jersey industrialist who donated an extensive and valuable collection of New Jersey historical documents and artifacts.

With connection to the Rowan campus network, the library is available online 24 hours daily. Reference librarians are available during regular library hours to assist patrons in using both the print and online resources. Specialized databases, such as the multi-million volume OCLC bibliographic database, can be accessed with librarian assistance. Two electronic reference rooms in the library are available during regular library hours. Patrons with laptop computers can be accommodated in the main building.

The library provides orientations, tours, and workshops throughout the academic year, including the summer sessions. A 30-workstation lab is available for "hands on" library instruction.

Located in the Wilson Fine and Performing Arts Building is the Music Library, which houses a large collection of scores, CDs, recordings, and other related materials. Listening equipment is available.

## **Office of Financial Aid**

**Luis Tavarez, Director**  
**Savitz Hall**  
**(856) 256-4276**  
**tavarez@rowan.edu**

Through the Office of Financial Aid Rowan University offers financial assistance to eligible students, in the form of scholarships, grants, work programs, and loans. Two specific financial aid packages for graduate students are the Federal Stafford Student Loan and the PLUS loan. For more information on these two aid packages visit:

<http://www.rowan.edu/provost/financialaid/graduate.html>

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## **Division of Information Resources**

**Anthony Mordosky, Associate Provost**  
**Memorial Hall**  
**(856) 256-4743**  
**mordosky@rowan.edu**

The Division of Information Resources provides leadership, planning, coordination, and support services for the information technology infrastructure of the university and its satellite campus. Information Resources is committed to providing students, faculty, and staff with universal access to library and information technology resources that support and enhance academic and administrative programs and promote student-centeredness, excellence in instructional practice, quality management, and efficiency and integrity of operations. This division consists of the Office of the Associate Provost for Information Resources, Instructional Technology, Enterprise Information Services and Network and System Services Units.

## **Office of the Registrar**

**Muriel Frierson, Registrar**  
**Savitz Hall**  
**(856) 256-4367**

The primary goal of the Office of the Registrar is to help students and alumni with all their registration and records needs. Current schedule of courses and course registration deadlines can be viewed at:

<http://www.rowan.edu/provost/registrar/courseschedule.html>

## **Office of Research**

**Gautam Pillay, Associate Provost for Research**  
**Memorial Hall**  
**(856) 256-4053**  
**pillay@rowan.edu**

The mission of the Office of Research is to support and promote student and faculty research at Rowan University. The office oversees the operation of the Office of Government Grants and ensures that research is conducted in accordance with legal and ethical guidelines by managing several aspects of research compliance, including: The Institutional Review Board for Human Subject Research (IRB); The Institutional Animal Care and Use Committee (IACUC); and Responsible Conduct of Research. The office also promotes research through advocacy, information dissemination, and collaboration with the academic colleges, the Senate, and the Faculty Center.

## **Academic Policies**

Every student pursuing studies at Rowan University is subject to the university policies and procedures. Students are encouraged to become familiar with these policies by consulting the Graduate Student Handbook, available electronically through the website of the Graduate School. In addition to providing all university policies, the Handbook describes Registrar's policies and procedures, graduate admission policies, graduate academic policies, the graduate assistantship program, graduate financial aid, and the university support services and resources.

For additional information, please visit: [www.rowan.edu/graduateschool/current\\_students/](http://www.rowan.edu/graduateschool/current_students/)

## Rohrer College of Business

**Niranjan Pati, Ph.D., Dean**

**856-256-4025**

**pati@rowan.edu**

**Margaret Van Brunt, Assistant Dean**

**856-256-4047**

**vanbrunt@rowan.edu**

### **Introduction**

The College of Business of Rowan University empowers its students to compete and succeed responsibly in their careers. The College of Business Faculty make quality teaching, supported by relevant scholarship, their highest priority. Rowan University's graduate business programs provide contemporary graduate business education to professionals of diverse fields and academic backgrounds, and accentuate knowledge and skills required for career advancement. In partnership with the Center for Innovation and Entrepreneurship, the College of Business promotes entrepreneurship throughout the University and in the regional community.

Rowan's Master of Business Administration (M.B.A.) program is especially designed to accommodate both full-time students and full-time employees. The program is personal, pragmatic and progressive. Classes are conveniently scheduled in the evening, on Saturdays, and online to accommodate demanding work schedules. Rowan's reputation as a respected regional university makes the reasonable cost of a Rowan M.B.A. a wise investment.

### **AACSB Accreditation**

The Rowan University M.B.A. program is accredited by AACSB International - The Association to Advance Collegiate Schools of Business. Awarded to only 18 percent of U. S. business programs, AACSB accreditation assures quality and promotes excellence and continuous improvement in undergraduate and graduate education for business administration and accounting. Our college is just one of five AACSB accredited schools in the nation to have their MIS Program also accredited by ABET, the Accredited Board for Engineering and Technology, Inc.

### **Degree Programs Offered**

- M.B.A. - No Specialization (G501)
- M.B.A. - Online (New) (G501)
- M.B.A. - Specialization in Accounting (G500)
- M.B.A. - Specialization in Entrepreneurship (G507)
- M.B.A. - Specialization in Finance (G504)
- M.B.A. - Specialization in Management (G522)
- M.B.A. - Specialization in Marketing (G509)
- M.B.A. - Dual Specialization (Complete a total of 18 elective credits)

## **Pre-M.B.A. Program**

### **Admission Requirements for Pre-M.B.A. Program**

The Pre-MBA program allows students to complete their foundation course requirements before applying to the MBA program. This is a non-degree granting, undergraduate program. The Pre-MBA program does not require the GMAT exam and students pay undergraduate tuition rates for the foundation courses.

*Note:* 1) Completion of the Pre-MBA program does not guarantee admission into the MBA program and all MBA applicants must complete the GMAT exam; 2) an applicant may apply to the MBA program even if s/he has not completed all of the foundation requirements (however, MBA students pay graduate tuition for all courses taken).

Please contact the MBA Office ([mba@rowan.edu](mailto:mba@rowan.edu)) for more information and to receive a Pre-MBA Application.

## **Master of Business Administration (M.B.A.) - No Specialization**

### **Program Description**

The Master of Business Administration (M.B.A.) 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 M.B.A. curriculum emphasizes critical thinking, quantitative analysis and computing applications, and the technological and international nature of business.

The Rohrer College of Business M.B.A. program offers small class sizes with an average student/faculty ratio of 15 to 1. M.B.A. classes are scheduled on evenings and Saturdays. The program attracts graduates from business, sciences, engineering and other programs whose careers are leading them to positions of increasing responsibility in business or industry.

The M.B.A. program consists of 12 graduate classes with nine required and three elective courses. The three elective courses allow the individual student to tailor the academic program to meet his/her specific career development needs. Prospective students who do not have the required foundation courses may choose to apply directly to the graduate M.B.A. program or enroll in the Pre-M.B.A. program to complete the missing foundation courses.

### **Admissions Requirements for M.B.A.**

- Completed Graduate Application
- Graduate Management Admission Test (GMAT) or Graduate Record Examination (GRE) taken within the last five years. Candidates with an earned Masters or higher degree are waived from the five year standardized test constraint and might be waived from the standardized test requirement altogether, providing the following conditions are met:
  1. The degree granting institution holds a discipline-specific (based on the earned advanced degree) accreditation (e.g., ABET for Engineering/Technology, NCATE for Education)
  2. The applicant's overall graduate GPA exceeds 3.0
  3. All other M.B.A. acceptance criteria are satisfied
- Resume
- International applicants must complete an international graduate application
- International applicants must submit an acceptable English language assessment exam

**Application deadline:** Rolling Admissions

**Program Requirements (No Specialization)**

- Total semester hours required graduate work for program completion: 36 semester hours

**Foundation courses**

Some students may be required to complete up to 21 undergraduate foundation semester hours. To waive the undergraduate foundation requirements, a student must present evidence of having completed undergraduate college courses equivalent to the following Rowan courses (subject to approval by program director):

Foundations of Accounting	3.0
Principles of Economics:Global Perspectives	3.0
Calculus Techniques and Applications	3.0
Statistics I	3.0
Principles of Marketing	3.0
Operations Management	3.0
Principles of Finance	3.0

**Coursework (No Specialization)**

<b>Required courses</b>		<b>27 s.h.</b>
ACC03.500	Managerial Accounting	3.0
FIN04.500	Financial Decision Making	3.0
MGT01.510	Professional, Legal and Managerial Responsibilities	3.0
MGT06.500	Designing, Developing & Leading High Performance Orgs	3.0
MGT06.502	International Business and Society	3.0
MGT06.629	Managing Organizational Strategy	3.0
MGT07.500	Managerial Decision Making Tools	3.0
MIS02.500	Issues in Management Information Systems	3.0
MKT09.500	Marketing Management	3.0

**Elective courses** **9 s.h.**

- Approved graduate business electives, 9.0 s.h. - Please refer to [www.rowan.edu/mba](http://www.rowan.edu/mba) for current elective course offerings

**Thesis Requirement:** none

**Program Website**

[www.rowan.edu/mba](http://www.rowan.edu/mba)

**Coordinator/Contact Information**

Daniel J. McFarland, Ph.D., Program Director  
 856-256-4024  
[mba@rowan.edu](mailto:mba@rowan.edu)

**Master of Business Administration (M.B.A.) - Online**

**Program Description**

Beginning spring 2009, The College of Professional & Continuing Education (CPCE) at Rowan University launched an online M.B.A. program. The courses are developed by and offered through the AACSB accredited Rohrer College of Business at Rowan University. It will prepare graduate students

to assume managerial positions in commercial, not-for-profit, and governmental organizations/agencies. Classes are accelerated and online offering the fastest and most convenient route to your M.B.A. degree.

The Master of Business Administration (M.B.A.) 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. The M.B.A. curriculum emphasizes critical thinking, quantitative analysis and computing applications, and the technological and international nature of business.

### **Admissions Requirements for M.B.A.**

- Completed CPCE Application
- Graduate Management Admission Test (GMAT) or Graduate Record Examination (GRE) taken within the last five years. Candidates with an earned Masters or higher degree are waived from the five year standardized test constraint and might be waived from the standardized test requirement altogether, providing the following conditions are met:
  1. The degree granting institution holds a discipline-specific (based on the earned advanced degree) accreditation (e.g., ABET for Engineering/Technology, NCATE for Education)
  2. The applicant's overall graduate GPA exceeds 3.0
  3. All other M.B.A. acceptance criteria are satisfied
- Resume
- International applicants must complete an international graduate application
- International applicants must submit an acceptable English language assessment exam

**Application deadline:** Rolling admissions

### **Program Requirements (Online)**

- Total semester hours required graduate work for program completion: 36 semester hours

### **Foundation courses**

Some students may be required to complete up to 21 undergraduate semester hours. To waive the undergraduate foundation requirements, a student must present evidence of having completed undergraduate college courses equivalent to the following Rowan courses (subject to approval by program director):

Foundations of Accounting	3.0
Principles of Economics: Global Perspectives	3.0
Calculus Techniques and Applications	3.0
Statistics I	3.0
Principles of Marketing	3.0
Operations Management	3.0
Principles of Finance	3.0

### **Coursework (Online)**

<b>Required courses</b>		<b>36 s.h.</b>
<a href="#">ACC03.500</a>	Managerial Accounting	3.0
<a href="#">FIN04.500</a>	Financial Decision Making	3.0
<a href="#">MGT01.510</a>	Professional, Legal and Managerial Responsibilities	3.0
<a href="#">MGT06.500</a>	Designing, Developing & Leading High Performance Orgs	3.0
<a href="#">MGT06.502</a>	International Business and Society	3.0

MGT06.629	Managing Organizational Strategy	3.0
MGT07.500	Managerial Decision Making Tools	3.0
MIS02.500	Issues in Management Information Systems	3.0
MKT09.500	Marketing Management	3.0
ENT06.599	Special Topics: New Venture Creation	3.0
HRM06.605	Strategic Human Resource Management	3.0
MIS02.515	Electronic Commerce	3.0

**Thesis Requirement:** none

### **Program Website**

[www.rowan.edu/cpce](http://www.rowan.edu/cpce)

### **Coordinator/Contact Information**

Tiffany J. Fortunato, M.B.A., CPCE Administrative Advisor  
856-256-4742  
fortunato@rowan.edu

## **Master of Business Administration (M.B.A.) - Accounting Specialization**

### **Program Description**

The accounting specialization within the Rohrer College of Business M.B.A. Program is designed to equip students of diverse academic backgrounds with both an overall understanding of accounting concepts as well as specific advanced topics in financial, managerial accounting and tax. In combination with an undergraduate degree in accounting, students have the option of meeting the 150 credit hour educational requirements for licensure as certified public accountants in the State of New Jersey through the Rohrer College of Business M.B.A. program.

Specific objectives of the Specialization in Accounting are to provide M.B.A. graduates with the education necessary to undertake independent analysis in financial and managerial accounting using the appropriate research tools, to develop specialized knowledge of accounting at the graduate level, and to apply accounting problem solving to "real world" situations.

### **Admissions Requirements**

- Completed Graduate Application
- Graduate Management Admission Test (GMAT) or Graduate Record Examination (GRE) taken within the last five years. Candidates with an earned Masters or higher degree are waived from the five year standardized test constraint and might be waived from the standardized test requirement altogether, providing the following conditions are met:
  1. The degree granting institution holds a discipline-specific (based on the earned advanced degree) accreditation (e.g., ABET for Engineering/Technology, NCATE for Education)
  2. The applicant's overall graduate GPA exceeds 3.0
  3. All other M.B.A. acceptance criteria are satisfied
- Resume
- International applicants must complete an international graduate application
- International applicants must submit an acceptable English language assessment exam

**Application deadline:** Rolling admissions

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### Program Requirements (Accounting Specialization)

- Total semester hours required graduate work for program completion: 36 semester hours

#### Foundation courses

Some students may be required to complete up to 21 undergraduate foundation semester hours. To waive the undergraduate foundation requirements, a student must present evidence of having completed undergraduate college courses equivalent to the following Rowan courses (subject to approval by program director):

Foundations of Accounting	3.0
Principles of Economics: Global Perspectives	3.0
Calculus Techniques and Applications	3.0
Statistics I	3.0
Principles of Marketing	3.0
Operations Management	3.0
Principles of Finance	3.0

### Coursework (Accounting Specialization)

<b>Required courses</b>		<b>27 s.h.</b>
<a href="#">ACC03.500</a>	Managerial Accounting	3.0
<a href="#">FIN04.500</a>	Financial Decision Making	3.0
<a href="#">MGT01.510</a>	Professional, Legal and Managerial Responsibilities	3.0
<a href="#">MGT06.500</a>	Designing, Developing & Leading High Performance Orgs	3.0
<a href="#">MGT06.502</a>	International Business and Society	3.0
<a href="#">MGT06.629</a>	Managing Organizational Strategy	3.0
<a href="#">MGT07.500</a>	Managerial Decision Making Tools	3.0
<a href="#">MIS02.500</a>	Issues in Management Information Systems	3.0
<a href="#">MKT09.500</a>	Marketing Management	3.0

#### Required Specialization Courses

**9 s.h.**

Any three (3) from the following:

<a href="#">ACC03.502</a>	Advanced Managerial Accounting	3.0
<a href="#">ACC03.503</a>	Corporate and Partnership Taxes	3.0
<a href="#">ACC03.504</a>	Seminar in Auditing	3.0
<a href="#">ACC03.505</a>	Seminar in Business Law	3.0
<a href="#">ACC03.506</a>	Advanced Domestic and International Accounting	3.0
<a href="#">ACC03.507</a>	Government and Non-for-Profit Accounting	3.0
<a href="#">ACC03.508</a>	Seminar and Research in Accounting	3.0
<a href="#">ACC03.509</a>	Intermediate Financial Accounting	3.0
<a href="#">ACC03.510</a>	Financial Statement Analysis	3.0
<a href="#">BUS01.600</a>	Special Topics in Business Administration (accounting topic)	3.0
<a href="#">FIN04.512</a>	Capital Budgeting	3.0

**Thesis Requirement:** none

#### Program Website

[www.rowan.edu/mba](http://www.rowan.edu/mba)



### **Coordinator/Contact Information**

Daniel J. McFarland, Ph.D., Program Director  
856-256-4024  
mba@rowan.edu

## **Master of Business Administration (M.B.A.) - Entrepreneurship Specialization**

### **Program Description**

The Entrepreneurship specialization within the Rohrer College of Business M.B.A. Program is designed to equip students of diverse academic backgrounds with foundational knowledge and advanced topics in entrepreneurship and the new venture development process.

Specific objectives of the Specialization in Entrepreneurship include: Understand individual motivations and strategies of entrepreneurs and innovators for starting a new business venture; Learn to recognize and identify entrepreneurial opportunities; Develop analytic decision making skills applied to new venture creation and growth; Develop the ability to create a value proposition and build viable new business models; Students will learn about the broad range of entrepreneurship including new business ventures, high-growth firms, corporate entrepreneurship, and social entrepreneurship.

### **Admissions Requirements**

- Completed Graduate Application
- Graduate Management Admission Test (GMAT) or Graduate Record Examination (GRE) taken within the last five years. Candidates with an earned Masters or higher degree are waived from the five year standardized test constraint and might be waived from the standardized test requirement altogether, providing the following conditions are met:
  1. The degree granting institution holds a discipline-specific (based on the earned advanced degree) accreditation (e.g., ABET for Engineering/Technology, NCATE for Education)
  2. The applicant's overall graduate GPA exceeds 3.0
  3. All other M.B.A. acceptance criteria are satisfied
- Resume
- International applicants must complete an international graduate application
- International applicants must submit an acceptable English language assessment exam

**Application deadline:** Rolling admissions

### **Program Requirements (Entrepreneurship Specialization)**

- Total semester hours required graduate work for program completion: 36 semester hours

### **Foundation courses**

Some students may be required to complete up to 21 undergraduate foundation semester hours. To waive the undergraduate foundation requirements, a student must present evidence of having completed undergraduate college courses equivalent to the following Rowan courses (subject to approval by program director):

Foundations of Accounting	3.0
Principles of Economics: Global Perspectives	3.0
Calculus Techniques and Applications	3.0
Statistics I	3.0

Principles of Marketing	3.0
Operations Management	3.0
Principles of Finance	3.0

### **Coursework (Entrepreneurship Specialization)**

**Required courses** **27 s.h.**

ACC03.500	Managerial Accounting	3.0
FIN04.500	Financial Decision Making	3.0
MGT01.510	Professional, Legal and Managerial Responsibilities	3.0
MGT06.500	Designing, Developing & Leading High Performance Orgs	3.0
MGT06.502	International Business and Society	3.0
MGT06.629	Managing Organizational Strategy	3.0
MGT07.500	Managerial Decision Making Tools	3.0
MIS02.500	Issues in Management Information Systems	3.0
MKT09.500	Marketing Management	3.0

**Required specialization courses** **9 s.h.**

Any three (3) from the following:

ENT06.504	Strategic Project-Based Experience	3.0
ENT06.505	Entrepreneurship and Innovation	3.0
ENT06.506	Corporate Entrepreneurship & New Venture Development	3.0
ENT06.599	Special Topics in Entrepreneurship	3.0

**Thesis Requirement:** none

### **Program Website**

[www.rowan.edu/mba](http://www.rowan.edu/mba)

### **Coordinator/Contact Information**

Daniel J. McFarland, Ph.D., Program Director  
856-256-4024  
mba@rowan.edu

## **Master of Business Administration (M.B.A.) - Finance Specialization**

### **Program Description**

The finance specialization within the Rohrer College of Business M.B.A. Program is designed to provide students with challenging career-oriented graduate preparation needed to acquire the requisite knowledge and skills necessary to be successful in their careers. Specific objectives of the Specialization in Finance are to provide M.B.A. graduates with a broad understanding of financial theory, markets, and institutions; to enable students to undertake independent financial analysis using the appropriate research tools, to help students to acquire financial decision-making skills, and to develop problem solving skills to enable students to apply finance theory to solve "real world" problems.

### **Admissions Requirements**

- Completed Graduate Application
- Graduate Management Admission Test (GMAT) or Graduate Record Examination (GRE) taken within the last five years.

- Candidates with an earned Masters or higher degree are waived from the five year standardized test constraint and might be waived from the standardized test requirement altogether, providing the following conditions are met:
  1. The degree granting institution holds a discipline-specific (based on the earned advanced degree) accreditation (e.g., ABET for Engineering/Technology, NCATE for Education)
  2. The applicant's overall graduate GPA exceeds 3.0
  3. All other M.B.A. acceptance criteria are satisfied
- Resume
- International applicants must complete an international graduate application
- International applicants must submit an acceptable English language assessment exam

**Application deadline:** Rolling admissions

**Program Requirements (Finance Specialization)**

- Total semester hours required graduate work for program completion: 36 semester hours

**Foundation courses**

Some students may be required to complete up to 21 undergraduate foundation semester hours. To waive the undergraduate foundation requirements, a student must present evidence of having completed undergraduate college courses equivalent to the following Rowan courses (subject to approval by program director):

Foundations of Accounting	3.0
Principles of Economics: Global Perspectives	3.0
Calculus Techniques and Applications	3.0
Statistics I	3.0
Principles of Marketing	3.0
Operations Management	3.0
Principles of Finance	3.0

**Coursework (Finance Specialization)**

**Required courses** **27 s.h.**

ACC03.500	Managerial Accounting	3.0
FIN04.500	Financial Decision Making	3.0
MGT01.510	Professional, Legal and Managerial Responsibilities	3.0
MGT06.500	Designing, Developing & Leading High Performance Orgs	3.0
MGT06.502	International Business and Society	3.0
MGT06.629	Managing Organizational Strategy	3.0
MGT07.500	Managerial Decision Making Tools	3.0
MIS02.500	Issues in Management Information Systems	3.0
MKT09.500	Marketing Management	3.0

**Required specialization courses** **9 s.h.**

Any three (3) from the following:

BUS01.600	Special Topics in Business Administration (finance topic)	3.0
FIN04.512	Capital Budgeting	3.0
FIN04.516	Issues in Finance	3.0
FIN04.518	Financial Engineering	3.0
FIN04.600	Investment/Portfolio Analysis	3.0

**Thesis Requirement:** none

### **Program Website**

[www.rowan.edu/mba](http://www.rowan.edu/mba)

### **Coordinator/Contact Information**

Daniel J. McFarland, Ph.D., Program Director  
856-256-4024  
mba@rowan.edu

## **Master of Business Administration (M.B.A.) - Management Specialization**

### **Program Description**

The Management specialization is designed primarily for working professionals who seek career advancement to the ranks of upper management. In addition to core management theories and techniques, the management specialization offers opportunities to further refine analytical and behavioral skills including critical thinking, people, and leadership skills. Hence, this program facilitates the development of well rounded general managers.

### **Admissions Requirements**

- Completed Graduate Application
- Graduate Management Admission Test (GMAT) or Graduate Record Examination (GRE) taken within the last five years.
- Candidates with an earned Masters or higher degree are waived from the five year standardized test constraint and might be waived from the standardized test requirement altogether, providing the following conditions are met:
  1. The degree granting institution holds a discipline-specific (based on the earned advanced degree) accreditation (e.g., ABET for Engineering/Technology, NCATE for Education)
  2. The applicant's overall graduate GPA exceeds 3.0
  3. All other M.B.A. acceptance criteria are satisfied
- Resume
- International applicants must complete an international graduate application
- International applicants must submit an acceptable English language assessment exam

**Application deadline:** Rolling admissions

### **Program Requirements (Management Specialization)**

- Total semester hours required graduate work for program completion: 36 semester hours

### **Foundation courses**

Some students may be required to complete up to 21 undergraduate foundation semester hours. To waive the undergraduate foundation requirements, a student must present evidence of having completed undergraduate college courses equivalent to the following Rowan courses (subject to approval by program director):

Foundations of Accounting	3.0
Principles of Economics: Global Perspectives	3.0
Calculus Techniques and Applications	3.0

Statistics I	3.0
Principles of Marketing	3.0
Operations Management	3.0
Principles of Finance	3.0

### **Coursework (Management Specialization)**

<b>Required courses</b>		<b>27 s.h.</b>
ACC03.500	Managerial Accounting	3.0
FIN04.500	Financial Decision Making	3.0
MGT01.510	Professional, Legal and Managerial Responsibilities	3.0
MGT06.500	Designing, Developing & Leading High Performance Orgs	3.0
MGT06.502	International Business and Society	3.0
MGT06.629	Managing Organizational Strategy	3.0
MGT07.500	Managerial Decision Making Tools	3.0
MIS02.500	Issues in Management Information Systems	3.0
MKT09.500	Marketing Management	3.0

### **Required Specialization Courses** **9 s.h.**

Any three (3) from the following:

BUS01.600	Special Topics in Business Administration	3.0
HRM06.598	Special Topics in Human Resources Management	3.0
HRM06.605	Strategic Human Resource Management	3.0
MGT06.501	Advanced Operations Management and Strategy	3.0
MGT06.503	Organization Development	3.0
MGT06.520	Global Leadership and Organization Culture	3.0
MGT06.599	Special Topics in Management	3.0
MGT06.601	Strategic Planning for Operating Managers	3.0
MGT07.600	Business Forecasting	3.0
MIS02.515	Electronic Commerce	3.0

**Thesis Requirement:** none

### **Program Website**

[www.rowan.edu/mba](http://www.rowan.edu/mba)

### **Coordinator/Contact Information**

Daniel J. McFarland, Ph.D., Program Director  
 856-256-4024  
[mba@rowan.edu](mailto:mba@rowan.edu)

## **Master of Business Administration (M.B.A.) - Marketing Specialization**

### **Program Description**

The Marketing Specialization within the Rohrer M.B.A. Program is designed to equip students of diverse academic backgrounds with an advanced understanding of the marketing concept as applied to modern organizations as well as the marketing function as it exists in profit and not-for-profit institutions. The Specialization in Marketing provides M.B.A. graduates with the education necessary to conduct marketing analysis, develop strategic marketing plans, develop specialized knowledge of marketing theory, and apply management problem solving models to "real world" marketing situations.

### **Admissions Requirements**

- Completed Graduate Application
- Graduate Management Admission Test (GMAT) or Graduate Record Examination (GRE) taken within the last five years.
- Candidates with an earned Masters or higher degree are waived from the five year standardized test constraint and might be waived from the standardized test requirement altogether, providing the following conditions are met:
  1. The degree granting institution holds a discipline-specific (based on the earned advanced degree) accreditation (e.g., ABET for Engineering/Technology, NCATE for Education)
  2. The applicant's overall graduate GPA exceeds 3.0
  3. All other M.B.A. acceptance criteria are satisfied
- Resume
- International applicants must complete an international graduate application
- International applicants must submit an acceptable English language assessment exam

**Application deadline:** Rolling admissions

### **Program Requirements (Marketing Specialization)**

- Total semester hours required graduate work for program completion: 36 semester hours

### **Foundation courses**

Some students may be required to complete up to 21 undergraduate foundation semester hours. To waive the undergraduate foundation requirements, a student must present evidence of having completed undergraduate college courses equivalent to the following Rowan courses (subject to approval by program director):

Foundations of Accounting	3.0
Principles of Economics: Global Perspectives	3.0
Calculus Techniques and Applications	3.0
Statistics I	3.0
Principles of Marketing	3.0
Operations Management	3.0
Principles of Finance	3.0

### Coursework (Marketing Specialization)

<b>Required courses</b>		<b>27 s.h.</b>
ACC03.500	Managerial Accounting	3.0
FIN04.500	Financial Decision Making	3.0
MGT01.510	Professional, Legal and Managerial Responsibilities	3.0
MGT06.500	Designing Developing & Leading High Performance Orgs	3.0
MGT06.502	International Business and Society	3.0
MGT06.629	Managing Organizational Strategy	3.0
MGT07.500	Managerial Decision Making Tools	3.0
MIS02.500	Issues in Management Information Systems	3.0
MKT09.500	Marketing Management	3.0

<b>Required specialization courses</b>		<b>9 s.h.</b>
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Any three (3) from the following:

BUS01.600	Special Topics in Business Administration	3.0
MKT09.501	Consumer Analysis	3.0
MKT09.502	Marketing Research	3.0
MKT09.503	Marketing Communication and Promotion	3.0
MKT09.600	International Marketing	3.0

*Or* completion of two marketing electives and one other graduate level elective course offered in the College of Business, with departmental approval of statement provided by the student describing how the other business elective fits into their planned study.

**Thesis Requirement:** none

### Program Website

[www.rowan.edu/mba](http://www.rowan.edu/mba)

### Coordinator/Contact Information

Daniel J. McFarland, Ph.D., Program Director  
 856-256-4024  
[mba@rowan.edu](mailto:mba@rowan.edu)

## College of Communication

**Lorin Basden Arnold, Ph.D., Interim Dean**

856-256-4340

arnold@rowan.edu

**Janice Rowan, M.A., Interim Associate Dean**

856-256-4340

rowan@rowan.edu

**Linda Sweeten, M.Ed., Assistant Dean**

856-256-4337

sweeten@rowan.edu

Graduate programs in the College of Communication offer students the opportunity to expand and hone their skills as writers and problem-solvers for the Information Age. With a mix of theoretically informed and practice-driven classes, students acquire important research and writing techniques that advance their professional and personal goals in an increasingly complex and diverse society.

The College of Communication graduate courses are designed to provide students with challenging and rewarding activities that enhance their professional development. The faculty in the College of Communication graduate programs is committed to produce an articulate and informed citizenry. Opportunities exist for graduate students to learn more about cutting-edge technology and the ethical practices of communication practitioners, as well as work with professional publications. In addition, numerous outreach programs provide students with practical application that relates to their courses of study.

Students who graduate from the College of Communication master's degree programs are leaders in the communication industry, attend doctoral or M.F.A. programs to further their studies, or become successful freelance authors and public relations practitioners.

### **Degree Programs Offered**

- Master of Arts in Public Relations (G895)
- Master of Arts in Writing (G608)
- Certificate of Graduate Study (COGS) in Integrated Marketing Communication
- Certificate of Graduate Study (COGS) in School Public Relations
- Certificate of Graduate Study (COGS) in Writing: Composition and Rhetoric

### **College Website**

[http://www.rowan.edu/graduateschool/graduate\\_programs/programs/communication.htm](http://www.rowan.edu/graduateschool/graduate_programs/programs/communication.htm)

## **Master of Arts in Public Relations**

### **Program Description**

The Master of Arts in Public Relations 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 M.A. in Public Relations curriculum grounds students in four key areas: writing, research, problem solving, and planning.



### Admission Requirements

- Completed Graduate Application
- Undergraduate GPA of 3.0 or better recommended
- Writing sample

**Application Deadline:** Rolling admission

### Program Requirements

- Total semester hours required graduate work for program completion: 33 s.h.
- Students entering the program must also satisfy the requirement of an undergraduate course or significant professional experience in publication layout and design
- Students must pass a comprehensive exam at the end of the program.
- Thesis Requirement: yes

### Coursework

#### Required courses

		<b>21 s.h.</b>
MAPR01.551	Public Relations Overview	3.0
MAPR01.547	Techniques in Communication	3.0
MAPR01.550	Introduction to Communication Research	3.0
MAPR01.553	Case Studies	1.0
MAPR01.544	Public Relations Planning	2.0
MAPR01.610	Internship	3.0
MAPR01.620	Seminar in Public Relations (2 semesters)	3.0

#### Elective Courses

- Approved Modules and Electives (Depending on Specialization), 12 s.h.

### Additional Information

Students wishing to focus on Educational Public Relations should also take FNDS21.502 Foundations of Education 3.0 and a graduate-level Psychology course. Students wishing to specialize in Public Affairs can substitute MAPR01.560 Public Affairs Overview for MAPR01.551 PR Overview.

### Program Website

[www.rowan.edu/colleges/communication/departments/publicRelationsAdvertising/gradprogram.html](http://www.rowan.edu/colleges/communication/departments/publicRelationsAdvertising/gradprogram.html)

### Coordinators/Contact Information

Edward H. Moore, APR

856-256-4274

mooree@rowan.edu

Joseph Basso, J.D., Ph.D., APR

856-256-4609

basso@rowan.edu

## Master of Arts in Writing

### Program Description

Since its inception in 1999, the Master of Arts in Writing has grown into a robust and dynamic program. It is an innovative, interdisciplinary degree that integrates the scholarship on composition and new media with the practice of creative, journalistic, academic, and electronic writing.

The M.A. provides students with a strong theoretical foundation in writing studies through four core courses and offers several areas in which students may develop their personal and professional goals, including composition studies, creative writing, and journalism. We offer diverse, rigorous courses, such as Creative Non-fiction Workshop, Writing for Electronic Communities, and Contemporary Rhetoric. A thesis, portfolio, or major project is a requirement of the program.

The M.A. in Writing prepares students for teaching writing at the post-secondary level, for career advancement in journalism, and for advanced study in M.F.A. and Ph.D. programs. Our students go on to publish their work in creative and academic venues, to work as writers in professional and educational settings, and to teach in K-12 schools and community colleges.

The M.A. in Writing fosters community through campus readings and events. Since spring 2006, we have invited writers to campus through the Harrah's Emerging Writers series; recent visiting writers include Thaddeus Rutkowski, Mimi Schwartz, Sandra Dolby, Paul Lisiky, and Victoria Redel. These writers, known for their ability to interact with students, gave readings of their work to the campus community and taught Master classes for our M.A. students. In addition, students have opportunities to read their own work during special events throughout the year and during our annual thesis symposium.

Faculty are writers, teacher-scholars, and active professionals with a strong commitment to graduate education and to helping students to develop into confident, successful writers.

The Writing Arts department was named a national Program of Excellence from the Conference on College Composition and Communication in 2004.

### Admission Requirements

- Completed Graduate Application
- Undergraduate GPA of 3.5 or better recommended
- 8 - 10 page writing sample

**Application Deadline:** February 15 for Fall semester, October 15 for Spring semester

### Program Requirements

- Total semester hours required graduate work for program completion: 30 s.h. Thesis Requirement: yes

### Coursework

Required courses		12 s.h.
<a href="#">MAWR01.554</a>	Core I: Theories and Techniques for Writers	3.0
<a href="#">MAWR01.559</a>	Core II: Research Methods for Writers	3.0
<a href="#">MAWR01.561</a>	Seminar I	3.0
<a href="#">MAWR01.571</a>	Seminar II	3.0

- Four MAWR courses in the specialized area (Composition Studies or Creative Writing/Journalism), 12.0
- A two-course Interdisciplinary study component, 6.0

### **Program Website**

[www.rowan.edu/open/depts/writing/](http://www.rowan.edu/open/depts/writing/)

### **Coordinator/Contact Information**

Dr. Jennifer Courtney  
Education Hall  
856-256-4847  
courtneyj@rowan.edu

## **Certificate of Graduate Study (COGS) in Integrated Marketing Communication**

### **Program Description**

The Certificate of Graduate Study (COGS) in Integrated Marketing Communication provides insight into how company efforts to offer greater accountability from their marketing efforts has 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.

### **Admission Requirements**

- Completed Graduate application

**Admission Deadline:** Rolling Admissions

### **Program Requirements**

- Total semester hours required graduate work for program completion: 15 s.h.

### **Coursework**

Required Courses		15 s.h.
<a href="#">MAPR01.562</a>	Integrated Marketing Communication	3.0
<a href="#">MAPR01.563</a>	Research Messaging and Audience Analysis	3.0
<a href="#">MAPR01.564</a>	Persuasive Writing for Integrated Marketing Communication	3.0
<a href="#">MAPR01.549</a>	Planning for Integrated Marketing Communication	3.0
<a href="#">MAPR01.565</a>	IMC and New Media	3.0

### **Program Website**

[www.rowan.edu/open/depts/writing/certificate.html](http://www.rowan.edu/open/depts/writing/certificate.html)

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### **Additional Information**

Students can use the course work from this COGS and apply it toward the M.A. program in Public Relations. This program is currently available only online through the College of Professional and Continuing Education. For additional information, visit [www.rowan.edu/cpce](http://www.rowan.edu/cpce).

### **Coordinators/Contact Information**

**Edward H. Moore, APR**  
856-256-4274  
[mooree@rowan.edu](mailto:mooree@rowan.edu)

**Joseph Basso, J.D., Ph.D., APR**  
856-256-4609  
[basso@rowan.edu](mailto:basso@rowan.edu)

## **Certificate of Graduate Study (COGS) in School Public Relations**

### **Program Description**

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.

### **Admission Requirements**

- Completed Graduate Application

**Admission Deadline:** Rolling Admissions

### **Program Requirements**

- Total semester hours required graduate work for program completion: 9 s.h.

### **Coursework**

#### **Required Courses**

<a href="#">MAPR98.503</a>	School Public Relations	3 s.h.
<a href="#">MAPR01.547</a>	Techniques of Communication	3 s.h.

Three (3) credits from any combination of the following existing communication modules:

<a href="#">MAPR01.553</a>	Graduate Case Studies in PR	1 s.h.
<a href="#">MAPR01.544</a>	Public Relations Planning	2 s.h.
<a href="#">MAPR01.533</a>	Crisis Public Relations	1 s.h.
<a href="#">MAPR01.534</a>	Small Group Communication	1 s.h.
<a href="#">MAPR01.535</a>	Interpersonal Communication	1 s.h.
<a href="#">MAPR01.537</a>	Contemporary PR Challenges	1 s.h.
<a href="#">MAPR01.538</a>	Legislative Liaison for PR Practitioners	1 s.h.
<a href="#">MAPR01.555</a>	Persuasive and Feature Writing	1 s.h.
<a href="#">MAPR01.557</a>	Using Electronic Media in Public Relations	2 s.h.
<a href="#">MAPR01.554</a>	Planning and Conducting Special Events	1 s.h.
<a href="#">MAPR01.524</a>	Fundraising and Development	2 s.h.
<a href="#">MAPR01.528</a>	Global PR	1 s.h.
<a href="#">MAPR01.558</a>	Integrated Marketing Communication	1 s.h.
<a href="#">MAPR01.530</a>	Internal Communication in Organizations	1 s.h.

### **Program Website**

[www.rowan.edu/colleges/communication/departments/publicRelationsAdvertising/gradprogram.html](http://www.rowan.edu/colleges/communication/departments/publicRelationsAdvertising/gradprogram.html)

### **Additional Information**

Students can use the coursework from this COGS and apply it toward the Master of Arts in Public Relations program.

### **Coordinators/Contact Information**

**Edward H. Moore, APR**

856-256-4274

mooree@rowan.edu

**Joseph Basso, J.D., Ph.D., APR**

856-256-4609

basso@rowan.edu

## **Certificate of Graduate Study in Writing, Composition and Rhetoric**

### **Program Description**

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.

### **Admissions Requirements**

- Completed Graduate Application

### **Coordinator Contact Information**

**Jennifer Courtney**

Education Hall

856-256-4847

courtneyj@rowan.edu

## College of Education

**Carol A. Sharp, Ph.D., Dean**

**856-256-4750**

**sharp@rowan.edu**

**Jill A. Perry, Ph.D., Associate Dean**

**856-256-4749**

**perry@rowan.edu**

**Steven C. Farney, M.B.A., Assistant Dean**

**856-256-4754**

**farney@rowan.edu**

The College of Education's graduate programs combine the study of research, theory, and wisdom of practice in diverse settings with a variety of opportunities to apply knowledge and dispositions to practice, thus promoting professional achievement and personal fulfillment. Our programs provide an intellectually rigorous and challenging environment for preparing to teach, preparing for other education or health-related services, or preparing for leadership in education and selected health-related services.

The overarching theme of the graduate programs in the College of Education is 'The Learning Community in Action'. The goals of all programs are based on this theme. Rowan University's College of Education programs are accredited by the National Council for Accreditation of Teacher Education (NCATE).

### **College Website**

[www.rowan.edu/colleges/education/](http://www.rowan.edu/colleges/education/)

### **Programs Offered**

#### **Doctoral Program**

- Doctor of Education (Ed.D.) in Educational Leadership (G928)

#### **Specialist Program**

- Educational Specialist (Ed.S.) in School Psychology (ES03)

#### **Masters Programs**

- Master of Arts in Counseling in Educational Settings (G825)
- Master of Arts in Health Promotion Management (G836)
- Master of Arts in Higher Education - Administration Track (G807)
- Master of Arts in Higher Education - Instructional Track (G807)
- Master of Arts in Learning Disabilities-Track 1 (Learning Disabilities Teacher-Consultant)(G818)
- Master of Arts in Learning Disabilities-Track 2 (Preschool) (G818)
- Master of Arts in Reading Education (G830)
- Master of Arts in School Administration (G827)
- Master of Arts in School & Public Librarianship - Public Librarian Track (G601)
- Master of Arts in School & Public Librarianship - School Library Media Certification (G601)
- Master of Arts in School Psychology (G822)
- Master of Arts in Special Education - Track I (Low Incidence Disabilities) (G809)

- Master of Arts in Special Education - Track II (High Incidence Disabilities) (G809)
- Master of Education in Teacher Leadership (G812)
- Master of Science in Teaching in Collaborative Teaching (G810)
- Master of Science in Teaching in Elementary/Secondary Education (G800)

#### **Certificates of Graduate Study (COGS)**

- Certificate of Graduate Study in Autism Spectrum Disorders (G108)
- Certificate of Advanced Graduate Study in Principal Preparation (G628)
- Certificate of Graduate Study in Educational Technology for Teachers (G841)
- Certificate of Graduate Study in English as a Second Language (G603)
- Certificate of Graduate Study in Reading - (G630)
- Certificate of Graduate Study in Reading/Writing Literacy - G126)
- Certificate of Graduate Study in Special Education (G808)
- Certificate of Graduate Study in Teaching and Learning (G109)

#### **Certificate & Endorsement Programs**

- Associate Educational Media Specialist Certification (G600)
- Bilingual/Bicultural Education Certification (G603)
- Learning Disabilities Teacher-Consultant Certification (G618)
- School Nursing Post Baccalaureate Certification (9221)
- Supervisor's Certification (G629)
- Teacher of Reading Endorsement (9830)
- Teacher of Students with Disabilities Graduate Endorsement (G609)
- Teacher of Students with Disabilities Post Baccalaureate Endorsement (9810)

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

### **Program Description**

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.

### **Admission Requirements**

- Completed Graduate Application
- A personal interview with program faculty may be required
- Three letters of recommendation from individuals in a position to attest to the applicant's ability
- A masters degree from an accredited college or university
- A leadership portfolio and resume, which will be reviewed for evidence of demonstrated leadership and leadership potential

**Application deadline:** June 15 for Fall Semester matriculation; December 15 for Spring Semester matriculation

### Program Requirements

- Total semester hours required for program completion: 60 s.h.
- Leadership Research Project

### Coursework

#### Required Courses

##### Phase One

EDSU28.715	Leadership Theory	3.0
EDAM27.701	Organizations and Cultures: Theory and Application	3.0
EDAM27.704	Changing Organizations	3.0
EDST24.722	Research Literature Analysis and Writing	3.0

##### Phase Two

EDST24.724	Conducting and Analyzing Qualitative Research	3.0
EDST24.723	Conducting and Analyzing Survey Research	3.0
EDAM27.750	Applied Ethics in Educational Leadership	3.0
EDSU28.710	Leadership Seminar I	3.0
EDAM27.719	Leadership Research Project Proposal	3.0
EDST24.720	Leadership Applications, Fieldwork, and Seminar	9.0

##### Phase Three

EDST24.795	Dissertation Research	12.0
EDAM27.752	Advanced Leadership	3.0

##### Other Required Courses that May be Taken in any Phase

EDAM27.733	The Policy Environment	3.0
EDSU28.706	Diversity and Educational Leadership	3.0
EDAM27.713	Forces of Change in American Society	3.0

### Program Website

[www.rowan.edu/graduateschool/graduate\\_programs/programs/leadership.htm](http://www.rowan.edu/graduateschool/graduate_programs/programs/leadership.htm)

### Coordinator/Contact Information

Gini Doolittle, Ph.D.

856-256-4500 Ext. 3637

doolittle@rowan.edu

## Educational Specialist (Ed.S.) in School Psychology

### Program Description

The Ed.S. 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 Ed.S. 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 Ed.S., candidates are eligible for New Jersey Department of Education certification as a school psychologist. Rowan University Ed.S. graduates may also apply to become a Nationally Certified School Psychologist (NCSP) through the National Association of School Psychologists. Rowan University's School Psychology program is an approved program by the National



Association of School Psychology (NASP).

### **Admission Requirements**

- Completed Graduate Application
- Successful completion of the MA in School Psychology, another specialized area of psychology, or related field
- Applicants without an MA in School Psychology or other area of psychology may need to submit scores from the GRE Psychology Test; the general GRE is not required.

**Application Deadline:** February 15 for Fall admission; October 15 for Spring admission

### **Program Requirements**

- Total graduate semester hours required for program completion: 40 s.h.

### **Coursework**

#### **Required Courses**

		<b>40 s.h.</b>
SPED08.547	Professional School Psychology	3.0
SPED08.545	Home/School/Community Collaboration	3.0
PSY06.627	Individual Psychodiagnostics I	3.0
PSY06.628	Individual Psychodiagnostics II	3.0
PSY06.628	Individual Psychodiagnostics III	3.0
PSY06.632	School Psych: Consult and Intervention	3.0
CURR29.580	Fundamentals of Curriculum Development	3.0
EDSU28.546	Educational Organization and Leadership	3.0
PSY22.530	Consultation and Clinical Services Practicum	4.0
PSY22.634	Colloquium in School Psychology (2 semesters)	12.0

**Thesis Requirement: none**

### **Program Website**

[www.rowan.edu/colleges/education/departments/special\\_educational\\_services/graduate/eds/](http://www.rowan.edu/colleges/education/departments/special_educational_services/graduate/eds/)

### **Coordinator/Contact Information**

**Barbara Bole Williams, PhD**  
856-256-4500 Ext. 3804  
williamsb@rowan.edu

## **Master of Arts in Counseling in Educational Settings**

### **Program Description**

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, as well as ones personal and social development; and working cooperatively with community resources in assisting individuals and families. A number of our graduates seek careers in Higher Education settings, such as Residence Hall, Student Services, and Career and Academic

Planning.

**Admission Requirements**

- Completed Graduate Application
- Scores from the general Graduate Record Examination (GRE) test or the Miller Analogies Test (MAT)
- 2.75 Undergraduate GPA

**Application Deadline:** February 15 for Fall admission; October 15 for Spring admission

**Program Requirements**

- Total graduate semester hours required for program completion: 48 s.h.

**Coursework**

Required Courses		48 s.h.
COUN26.501	Introduction to Counseling and Guidance	3.0
COUN26.520	Design & Administration of Developmental Counseling Programs	3.0
COUN26.526	Individual Counseling Procedures	3.0
COUN26.528	Individual Counseling Procedures Lab	1.0
COUN26.509	Group Counseling in Educational Settings	3.0
COUN26.510	Group Counseling in Educational Settings Lab	1.0
COUN26.582	Career Counseling in Educational Settings	3.0
COUN26.605	Adv. Workshop/Counseling in Ed. Settings (Two @ 1 s.h. each)	2.0
SCPY25.516	Applied Tests and Measurements	3.0
PSY09.560	Life Span Development	3.0
PSY22.507	Development and Learning	3.0
PSY05.610	Social and Cultural Diversity	3.0
COUN26.597	Institutions and Agencies	3.0
COUN26.603	Research I/Counseling in Educational Settings	3.0
COUN26.604	Research II/Counseling in Educational Settings	3.0
COUN26.527	Practicum/Counseling in Educational Settings	3.0
COUN26.529	Practicum/Counseling in Educational Settings Lab	1.0
COUN26.601	Internship/Counseling in Educational Settings	4.0

**Thesis Requirement:** none

**Program Website**

[www.rowan.edu/colleges/education/departments/special\\_educational\\_services/graduate](http://www.rowan.edu/colleges/education/departments/special_educational_services/graduate)

**Coordinator/Contact Information**

Charles (Chuck) Brett  
856-256-4787  
brett@rowan.edu

## Master of Arts in Health Promotion Management

### Program Description

The Master of Arts in Health Promotion degree 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 for leadership positions within their organizations. Specifically, graduates will be prepared to serve as directors and managers of health promotion programs and facilities in all three settings and as program directors of non-profit and government health organizations.

Graduates will be prepared to serve as Directors and Managers of the following types of organizations:

- Corporate wellness/fitness facilities
- Hospital-based wellness/fitness facilities
- Cardiac/pulmonary rehabilitation centers
- Community wellness/fitness facilities
- Non-profit health agencies
- State/county/city Departments of Public Health

### Admission Requirements

- Completed Graduate Application
- GRE Test - A score of 425 or better on the Verbal and Quantitative portions of the exam and a score of 4.0 or better on the Writing/Analytical portion of the exam are desirable, but not required to be considered for the program.
- Applicants should have an undergraduate GPA of 3.0 or higher for consideration for entrance into the program.
- The following foundation courses are required: Human Anatomy and Physiology (4-8 s.h. - must include the nervous, muscular, respiratory and cardiovascular systems), Basic Nutrition (3.0 s.h.), Exercise Physiology with lab (4.0 s.h.), and a 3-credit health course (i.e. Contemporary Health or equivalent)

**Admission Deadline:** Rolling admissions

### Program Requirements

- Total graduate semester hours required for program completion: 30 s.h.

### Coursework

Required Courses	30 s.h.
HLTH37.510	Research Methods in Health and Exercise Science 3.0
HLTH37.570	Research Thesis in Health and Exercise Science 3.0
HLTH37.520	Leadership and Management in Health Promotion Programs 3.0
HLTH37.530	Seminar in Health Behavior 3.0
HLTH37.540	Program Planning: Theory and Development 3.0
HLTH37.550	Exercise and Epidemiology 3.0
HLTH37.560	Nutrition and Epidemiology 3.0
MGT01.510	Professional, Legal and Managerial Responsibilities
MGT06.502	International Business and Society
MGT06.605	Strategic Human Resource Management

**Thesis Requirements: Yes**

**Additional Information**

The College of Professional & Continuing Education (CPCE) at Rowan University offers the Master of Arts in Health Promotion Management program. The program combines offerings from Rowan's Colleges of Education and Business. Classes will be accelerated and online offering the fastest and most convenient route to your Masters degree.

Undergraduate students in the Health Promotion and Fitness Management specialization will have the option to graduate in five years with a Masters degree. To do so, they must meet the following criteria:

- Students must declare their intent to complete the accelerated Masters program with the department Academic Advisor and Program Advisor in their sophomore year. Transfer students must declare their intent upon matriculation at Rowan University, although it is unlikely that they will be able to complete the program as quickly as a student declaring it in their freshman year.
- Students must maintain an overall minimum G.P.A. of 3.0 to enter and remain in the accelerated program. Transfer students must have a G.P.A. of 3.0 at their prior institution to enter the program.
- Students completing the accelerated Masters program should expect to take some summer courses to complete the program in five years.
- Students enrolled in the accelerated program will begin taking master's level courses in their senior year (4th year).

**Program Website**

[www.rowan.edu/colleges/education/departments/health\\_exercise\\_science/graduate/hpfm/](http://www.rowan.edu/colleges/education/departments/health_exercise_science/graduate/hpfm/)

**Coordinator/Contact Information**

Leslie Spencer, Ph.D.  
856.256.4500 ext. 3761  
spencer@rowan.edu

**Master of Arts in Higher Education - Administration Track**

**Program Description**

The M.A. in Higher Education has two tracks: (1) administration and (2) instruction. The administration track is intended to serve individuals employed in a higher education setting who wish to increase their knowledge and skills as well as those who seek an entry level position in a two year or four year college or university.

Full-time students in the administration track may complete the program in two years, excluding summers, by following a highly sequenced pattern of course enrollments. Part-time students may also enroll in the administration track and will be advised regarding the sequencing of courses in order to complete the program in four years or less.

**Admission Requirements**

- Completed Graduate Application
- GRE scores or MAT scores
- A personal interview may be required with the program advisor
- A positive recommendation of the program advisor

**Admission Deadline:** Rolling admissions

**Program Requirements**

- Total graduate semester hours required for program completion: 36 s.h.

**Coursework**

<b>Required Courses</b>		<b>15 s.h.</b>
HIED06.605	Higher Education in America	3.0
EDST24.501	Procedures and Evaluation in Research	3.0
EDAM27.620	Legal Issues in Higher Education	3.0
EDAM27.637	Higher Education Administration	3.0
EDAM27.737	The College Student: Issues and Support Programs	3.0

<b>Restricted Elective courses</b>	<b>9 s.h.</b>
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Students must select a minimum of three courses from the following bank of restricted elective courses:

MGT06.503	Organization Development	3.0
MAPR01.551	Public Relations Overview	3.0
HIED06.606	Selected Topics in Higher Education	3.0
FNDS21.530	Foundations of Multicultural Education	3.0
EDST24.503	Quantitative Analysis in Educational Research	3.0
EDST24.707	Applied Analysis for Educational Leadership	3.0
EDST24.709	Issues in Survey Research	3.0
COUN26.509	Group Counseling in Educational Settings	4.0
COUN26.526	Individual Counseling Procedures	4.0
COUN26.582	Career Counseling in Educational Settings	4.0
CURR29.503	Teaching Adult Learners	3.0
CURR29.504	Understanding Adult Learning and Development	3.0
EDAM27.621	Student Services in Higher Education	3.0
EDAM27.622	Planning and Resource Allocation in Higher Education	3.0
EDAM27.625	Change in Higher Education	3.0
EDAM27.733	Human Resource Development	3.0
EDAM27.741	Current Issues in Higher Education	3.0
EDAM27.742	The Curriculum of Higher Education	3.0
EDAM27.746	Higher Education Governance	3.0
EDSU28.706	Diversity and Educational Leadership	3.0
PSY05.623	Social Psychology	3.0

Students may also select courses from the College of Communication that are offered in modular format, including:

MAPR01.511	Writing Speeches	1.0-2.0
MAPR01.524	Fundraising and Development	2.0
MAPR01.530	Internal Communications in Organizations	1.0-2.0
MAPR01.532	Media Relations	1.0
MAPR01.533	Crisis Public Relations	1.0
MAPR01.536	Public Relations Law and Ethics	1.0
MAPR01.538	Legislative Liaison for Public Relations Practitioners	1.0

**Related elective courses, 6 s.h.**

Students may select a total of six semester hours of free, related graduate elective courses. These courses must receive the prior approval of the program advisor.

**Capstone requirement courses, 6 s.h.**

Includes master's thesis project

EDAM27.628	Seminar/Internship in Higher Education Administration I	3.0
EDAM27.629	Seminar/Internship in Higher Education Administration II	3.0

**Thesis Requirement: Yes**

**Additional Information**

Students in the M.A. in Higher Education Administration program 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.

In the capstone experience students must complete a research project on a topic approved by the program advisor. Students in the administration track are required to complete a two-semester 300 clock-hour clinical experience (150 clock hours each semester) within the courses, Seminar/Internship in Higher Education Administration I and II.

**Program Website**

[www.rowan.edu/colleges/education/departments/education\\_leadership/graduate/higher\\_education/](http://www.rowan.edu/colleges/education/departments/education_leadership/graduate/higher_education/)

**Coordinator/Contact Information**

James Coaxum, PhD

856-256-4779

coaxum@rowan.edu

**Master of Arts in Higher Education - Instructional Track**

**Program Description**

The M.A. in Higher Education has two tracks: (1) administration and (2) instruction. The instructional track is intended to serve those individuals who seek adjunct or full-time instructor positions primarily at a two-year college, in the following selected disciplines: reading, mathematics, computer science, and English as a Second Language (ESL).

Limited opportunities to pursue specializations in biology or chemistry and physics are also available, and individuals who are interested in pursuing these opportunities must discuss them with the program advisor. Depending on the selected specialization, the instructional track consists of 31-37 semester hours of course work, including a one-semester instructional internship.

**Specializations**

- Reading
- Mathematics
- Computer Science
- English as a Second Language (ESL)
- Limited opportunities to pursue specializations in biology or chemistry and physics are also available.

**Admission Requirements**

- Completed Graduate Application

- GRE scores or MAT scores
- A personal interview may be required with the program advisor
- A positive recommendation of the program advisor

**Admission Deadline:** Rolling admissions

**Program Requirements**

- Total graduate semester hours required for program completion: 31-37 s.h. (Depending on specialization)
- Master's thesis project
- Comprehensive Exam

**Coursework**

Required Courses		13 s.h.
<a href="#">HIED06.605</a>	Higher Education in America	3.0
<a href="#">EDST24.501</a>	Procedures & Evaluation in Research	3.0
<a href="#">CURR29.503</a>	Teaching Adult Learners	3.0
<a href="#">HIED06.603</a>	Seminar/Internship in Higher Education Instruction*	4.0

\*The Seminar/Internship in Higher Education Instruction must be taken in the student's final semester.

**Professional/Academic specialization courses, 18-24 s.h.**

Students wishing to matriculate in the teaching specializations of mathematics, computer science, or in a teaching specialization in one of the hard sciences, must possess the corresponding baccalaureate degree. Within the scope of the academic specialization, students must undertake a major research or thesis project and pass a comprehensive examination.

**Additional Information**

Students in the M.A. in Higher Education Administration program are required to prepare and keep a portfolio throughout the duration of the program experience.

**Thesis Requirement: Yes**

**Program Website**

[www.rowan.edu/colleges/education/departments/education\\_leadership/graduate/higher\\_education/](http://www.rowan.edu/colleges/education/departments/education_leadership/graduate/higher_education/)

**Coordinator/Contact Information**

James Coaxum, Ph.D  
856-256-4779  
coaxum@rowan.edu

**Master of Arts in Learning Disabilities - Track 1 (Learning Disabilities Teacher-Consultant Track)**

**Program Description**

The Master of Arts in Learning Disabilities is an innovative program designed to provide motivated teachers with the knowledge and skills needed to meet the multitude of challenges found in both regular and special education classrooms. Both tracks in the program, each with a specific focus, are designed to prepare classroom teachers to meet the needs of students with learning difficulties.

Collaborative field experiences are included in each track. This program received national accreditation and recognition from NCATE and CEC. Track I is designed to prepare candidates for the Learning Disabilities Teacher-Consultant certification. Students in this track work in collaboration with other members of a child study team.

### Admission Requirements

- Completed Graduate Application
- Standard New Jersey instructional (i.e., teaching) certificate
- Thoughtfully prepared statement of professional objectives and reflective essay on what the candidate expects to achieve as a result of study in this graduate program.
- Two letters of recommendation (one recommendation from the candidate's superintendent, principal, or supervisor and one recommendation from a professional colleague)
- Documentation of one-year of effective, classroom teaching experience (need a minimum of three years at completion of program)
- Interview with the program coordinator
- On-site writing sample

**Admission Deadline:** Rolling admissions

### Program Requirements

- Total graduate semester hours required for program completion: 39 s.h.

### Coursework

Required Courses		39 s.h.
LDTC18.516	Applied Tests and Measurements	3.0
PSY22.510	Theories of Learning OR	3.0
LDTC18.510	Applied Theories of Learning	3.0
SPED08.555	Education & Psychology of Exceptional Learners	3.0
LDTC18.520	Neurological Bases of Educational Disorders	3.0
READ30.535	Teaching Reading to the Exceptional Child	3.0
LDTC18.503	Foundations of Learning Disabilities	3.0
LDTC18.504	Assessment of Learning Disabilities	3.0
LDTC18.505	Correction of Learning Disabilities	3.0
LDTC18.525	Advanced Assessment Techniques	3.0
LDTC18.650	Clinical Experience in Learning Disabilities*	6.0
LDTC18.600	Seminar and Research in Learning Disabilities I	3.0
LDTC18.601	Seminar and Research in Learning Disabilities II	3.0

**Thesis Requirement:** Yes

\* matriculated students only and permission of advisor

### Program Website

[www.rowan.edu/colleges/education/departments/special\\_educational\\_services/graduate/learning\\_disabilities/](http://www.rowan.edu/colleges/education/departments/special_educational_services/graduate/learning_disabilities/)

### Coordinator/Contact Information

Sharon Davis Bianco, EdD  
856-256-4500 Ext. 3796  
bianco@rowan.edu



## Master of Arts in Learning Disabilities - Track 2 (Preschool Track)

### Program Description

The Master of Arts in Learning Disabilities is an innovative program designed to provide motivated teachers with the knowledge and skills needed to meet the multitude of challenges found in both regular and special education classrooms. Both tracks in the program, each with a specific focus, are designed to prepare classroom teachers to meet the needs of students with learning difficulties. Collaborative field experiences are included in each track. This program received national accreditation and recognition through NCATE and CEC. Track II is for graduate students who wish to facilitate learning for young children with developmental delays and disabilities.

### Admission Requirements

- Completed Graduate Application
- Thoughtfully prepared statement of professional objectives and reflective essay on what the candidate expects to achieve as a result of study in this graduate program.
- Two letters of recommendation (one recommendation from the candidate's superintendent, principal, or supervisor and one recommendation from a professional colleague)
- Standard New Jersey instructional (i.e., teaching) certificate
- Documentation of one-year of effective, classroom teaching experience (need a minimum of three years at completion of program)
- Interview with the program advisor and the program coordinator
- On-site writing sample

**Admission Deadline:** Rolling admissions

### Program Requirements

- Total graduate semester hours required for program completion: 33 s.h.

### Coursework

#### Basic Required Courses

**9 s.h.**

LDTC18.516	Applied Tests and Measurements	3.0
PSY09.511	Child Psychology	3.0
LDTC18.510	Applied Theories of Learning	3.0

#### Specialization Courses

**18 s.h.**

SPED08.555	Education & Psychology of Exceptional Learners	3.0
LDTC18.520	Neurological Bases of Educational Disorders	3.0
LDTC18.550	Foundations of Early Childhood Special Education	3.0
LDTC18.540	Motor Development in Young Children with Disabilities	3.0
LDTC18.545	Language Development in Young Children with Disabilities	3.0
PSY06.631	Psychological Testing of the Preschool Child	3.0

#### Seminar and Research

**6 s.h.**

LDTC18.600	Seminar and Research in Learning Disabilities I	3.0
LDTC18.601	Seminar and Research in Learning Disabilities II	3.0

**Thesis Requirement: Yes**

## Program Website

[www.rowan.edu/colleges/education/departments/special\\_educational\\_services/graduate/learning\\_disabilities/](http://www.rowan.edu/colleges/education/departments/special_educational_services/graduate/learning_disabilities/)

## Coordinator/Contact Information

Sharon Davis Bianco, EdD  
856-256-4500 Ext 3796  
bianco@rowan.edu

## Master of Arts in Reading Education

### Program Description

The Masters of Arts in Reading Education is nationally accredited by the National Council for Accreditation in Teacher Education in conjunction with the International Reading Association. It is designed for candidates who have an initial teaching license and want to expand their knowledge, skills, and dispositions in teaching literacy and coaching paraprofessionals and colleagues. 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 Reading 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.

### Admission Requirements

- Completed Graduate Application
- GRE or MAT scores (minimum GRE scores of 400 verbal and 400 math preferred and MAT scores of 34th percentile preferred)
- Undergraduate GPA of 2.75 (3.0 preferred)
- New Jersey teaching certificate
- Interview with graduate advisor
- Essay

**Application deadline:** Rolling Admissions

### Program Requirements

- Total semester hours required for program completion: 33 s.h.

### Coursework

#### Required Core Courses

<a href="#">LIBR01.521</a>	Design & Production of Educational Media	3.0
<a href="#">READ30.515</a>	Teaching Reading Across the Grades	3.0
<a href="#">READ30.520</a>	Teaching Reading in the Content Areas	3.0

READ30.535	Word Study: Phonics, Spelling, and Vocabulary Instruction	3.0
READ30.540	Administration and Supervision of School Reading Programs	3.0
READ30.550	Diagnosis of Remedial Reading Problems	3.0
READ30.560	Correction of Remedial Reading Problems	3.0
READ30.570	Clinical Experiences in Reading	6.0
READ30.600	Seminar and Research in Reading	3.0
<b>Survey of Literature Course</b>		<b>3.0 s.h.</b>
Choose one of the following:		
LIBR01.502	Survey of Childrens Literature	3.0
LIBR01.503	Survey of Young Adult Literature	3.0

**Restricted Elective Course** **3.0 s.h.**  
 Choose any one course in the College of Education

**Thesis Requirement:** none

**Program Website**

[www.rowan.edu/colleges/education/departments/reading/graduate/reading/](http://www.rowan.edu/colleges/education/departments/reading/graduate/reading/)

**Coordinator/Contact Information**

James Coaxum, Ph.D.  
 856-256-4779  
 coaxum@rowan.edu

**Master of Arts in School Administration**

**Program Description**

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.

**Admission Requirements**

- Completed Graduate Application
- Two letters of recommendation (from the candidate’s superintendent, principal, supervisor or from a professional colleague attesting to his/her potential as an educational leader)
- Current professional resume that clearly demonstrates that the candidate has successful experience in teaching or a related professional role within the P-12 environment
- Interview with and/or positive recommendation of the COE program advisor.

**Application Deadline:** Rolling Admissions

**Program Requirements**

- Total semester hours required for program completion: 33 s.h.

**Coursework**

**Required Courses** **33 s.h.**

EDAM27.506	Introduction to School Administration	3.0
CURR29.580	Fundamentals of Curriculum Development	3.0
EDST24.504	Action Research in Education	3.0
EDSU28.546	Educational Organizations and Leadership	3.0
EDAM27.632	Technology for Educational Leadership	3.0
EDAM27.535	School Finance and Records	3.0
EDAM27.559	Law and Ethics for School Leadership	3.0
EDSU28.522	Instructional Leadership and Supervision	3.0
EDAM27.510	Change for School Improvement	3.0
EDSU28.523	Building Organizational Capacity	3.0
EDAM27.601	Practicum/Seminar in Administration and Supervision	3.0

**Thesis Requirement:** none

### **Program Website**

[www.rowan.edu/colleges/education/departments/education\\_leadership/graduate/school\\_administration/](http://www.rowan.edu/colleges/education/departments/education_leadership/graduate/school_administration/)

### **Coordinator/Contact Information**

James Coaxum, Ph.D  
856-256-4779  
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## **Master of Arts in School & Public Librarianship - Public Librarian Track**

### **Program Description**

The goal of the program is to educate public librarians to meet the current and future needs of southern New Jersey. The master's degree program in public librarianship ensures that students can manage library programs, know print and other media and are qualified to provide reference services to the general public. Many of our courses are taught in a hybrid mode, partially on-campus and partially online to accommodate commuters. On-campus courses are offered in the late afternoons and Saturdays for the convenience of working students. We are the only program in South Jersey approved for New Jersey certification as Professional Librarian.

### **Admission Requirements**

- Completed Graduate Application
- 2.75 Undergraduate GPA
- Writing sample of short essay answers (1-2 substantial paragraphs) to the following questions:
  - a. Please explain your principal objectives for enrolling in graduate study.
  - b. Describe a difficult challenge you have faced as a student and how you dealt with it.
  - c. Give an example of a goal you achieved that was important to you and analyze how you achieved it.
  - d. What intellectual and personal qualities do you have that will make you a successful school media specialist or professional librarian?

**Application Deadline:** Contact advisor for current information.

**Program Requirements - Public Librarian Track**

- Total semester hours required for program completion: 33 s.h.

**Coursework**

<b>Required Courses</b>		<b>24 s.h.</b>
LIBR01.506	Foundations of Librarianship	3.0
LIBR01.505	Reference Services & Resources I	3.0
LIBR01.521	Design & Production of Educational Media	3.0
LIBR01.510	Library Collections and Resources	3.0
LIBR01.511	Organization of Library Resources	3.0
LIBR01.530	Library Technology	3.0
LIBR01.507	Managing Library Programs	3.0
LIBR01.525	Reference Resources & Services II	3.0
<b>Restricted Elective Courses</b>		<b>9 s.h.</b>
Choose three (3) from the following:		
LIBR01.502	Survey of Children's Literature	3.0
LIBR01.503	Survey of Young Adult Literature	3.0
LIBR01.531	Serving the Library's Publics	3.0
LIBR01.532	Library Materials for Adults	3.0
LIBR01.550	Independent Study in Library Services	3.0
LIBR01.580	Practicum in Library Services	3.0

**Thesis Requirement:** none

**Program Website**

[www.rowan.edu/graduateschool/graduate\\_programs/programs/education.htm#library](http://www.rowan.edu/graduateschool/graduate_programs/programs/education.htm#library)

**Coordinator/Contact Information**

Charles Brett  
856-256-4787  
brett@rowan.edu

**Master of Arts in School & Public Librarianship - School Library Media Certification Track**

**Program Description**

The goal of the program is to educate school media specialists to meet the current and future needs of schools in southern New Jersey. The masters degree program in school librarianship ensures that students can manage media centers, know print and other media and are qualified to teach information literacy skills needed by 21st Century K-12 students. Many of our courses are taught in a hybrid mode, partially on-campus and partially online to accommodate commuters. On-campus courses are offered in the late afternoons and Saturdays for the convenience of working students.

We are the only program in South Jersey approved to offer courses for New Jersey certification as School Library Media Specialist. While the program is designed for certified teachers, students who are not certified teachers may take three additional courses in education in order to be recommended for SLMS certification.

### Admission Requirements

- Completed Graduate Application
- 2.75 Undergraduate GPA
- Writing sample of short essay answers (1-2 substantial paragraphs) to the following questions:
  - a. Please explain your principal objectives for enrolling in graduate study.
  - b. Describe a difficult challenge you have faced as a student and how you dealt with it.
  - c. Give an example of a goal you achieved that was important to you and analyze how you achieved it.
  - d. What intellectual and personal qualities do you have that will make you a successful school media specialist or professional librarian?

**Application Deadline:** Contact advisor for current information.

### Program Requirements - School Library Media Certification Track

- Total semester hours required for program completion: 33 s.h.

### Coursework

#### Required Courses

		33 s.h.
LIBR01.506	Foundations of Librarianship	3.0
LIBR01.505	Reference Services & Resources I	3.0
LIBR01.521	Design & Production of Educational Media	3.0
LIBR01.510	Library Collections and Resources	3.0
LIBR01.511	Organization of Library Resources	3.0
LIBR01.502	Survey of Childrens Literature	3.0
LIBR01.503	Survey of Young Adult Literature	3.0
LIBR01.580	Practicum in Library Services	3.0
LIBR01.530	Library Technology	3.0
LIBR01.507	Managing Library Programs	3.0
LIBR01.516	School Media Centers for Teaching & Learning	3.0

**Thesis Requirement:** none

### Program Website

[www.rowan.edu/graduateschool/graduate\\_programs/programs/education.htm#library](http://www.rowan.edu/graduateschool/graduate_programs/programs/education.htm#library)

### Coordinator/Contact Information

Charles (Chuck) Brett  
856-256-4787  
brett@rowan.edu

## Master of Arts in School Psychology

### Program Description

Completion of the Master of Arts (MA) in School Psychology provides a background in the theories, major knowledge, and methodological procedures in psychology. This program (or its equivalent) is required for admission into the Educational Specialist (EdS) program. The MA and EdS in School

Psychology combine to meet the requirements for NJ Department of Education certification in School Psychology.

**Admission Requirements**

- Completed Graduate Application
- A minimum GPA of 3.0 in undergraduate psychology courses
- A minimum of 15 undergraduate credits in psychology (including abnormal psychology and child or adolescent psychology) and 9 semester hours of psychology electives approved by department admissions committee
- Interview with graduate admissions committee

**Application Deadline:** February 15 for Fall admission; October 15 for Spring admission

**Program Requirements**

- Total semester hours required for program completion: 36 s.h.

**Coursework**

<b>Required Courses</b>		<b>33 s.h.</b>
SPED08.555	Educational Psychology of the Exceptional Learner	3.0
LDTC18.520	Neurological Bases of Educational Disorders	3.0
COUN26.526	Individual Counseling Procedures	4.0
COUN26.509	Group Counseling	4.0
PSY09.560	Lifespan Development	3.0
PSY22.507	Development and Learning	3.0
PSY03.624	Psychopathology of Childhood and Adolescence	3.0
PSY01.570	Research and Statistics in Counseling Psych	3.0
PSY22.600	Seminar I: App Res in School Psychology	3.0
PSY22.601	Seminar II: App Res in School Psychology	3.0
PSY01.624	Psychopathology II: Conceptualization and Etiology*	3.0

\*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 evidenced based interventions for each of the disorders will also be reviewed.

PSY22.602	Applied Research: School Psych	1.0
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**Restricted Elective Course** **3 s.h.**

Choose one from the following:

FNDS21.530	Foundation of Multicultural Education	3.0
PSY05.610	Social and Cultural Diversity	3.0

**Thesis Requirement: Yes**

**Program Website**

[www.rowan.edu/graduateschool/graduate\\_programs/programs/education.htm#psychology](http://www.rowan.edu/graduateschool/graduate_programs/programs/education.htm#psychology)

**Coordinator/Contact Information**

Barbara Bole Williams, PhD  
 856-256-4500 Ext. 3804  
 williamsb@rowan.edu

## Master of Arts in Special Education - Track I

### Program Description

This advanced program is designed for individuals who possess an instructional certificate in special education and want to pursue a master's degree that will increase their knowledge and skills related to working with individuals with exceptional learning needs. The coursework and related field experiences are designed to foster an understanding of students unique strengths and needs, as well as the pedagogical skills to accommodate these needs and provide appropriate curriculum modifications when necessary.

### Admission Requirements

- Completed Graduate application
- Undergraduate GPA of 2.75
- Instructional certificate in special education
- Interview with program advisor
- Completion of a writing sample at the time of the interview
- Resume

**Application deadline:** Rolling Admissions

### Program Requirements

- Total semester hours required for program completion: 30 s.h.

### Coursework

#### Required Core Courses

**15 s.h.**

Choose five (5) of the following courses:

SELN10.577	Collaborative Instruction in Inclusive Classrooms	3.0
LDTC18.503	Foundation of Learning Disabilities	3.0
SELN10.590	Teaching Students with Autism and PDD	3.0
SELN10.580	Teaching Students with Moderate and Severe Disabilities	3.0
SELN10.582	Communication Skills for Students with Disabilities	3.0
SELN10.586	Emotional & behavioral Support Strategies	3.0

#### Restricted Elective Courses

**9 s.h.**

Choose three (3) of the following:

READ30.530	Teaching Reading to the Exceptional Child	3.0
SELN10.578	Administration & Supervision in Special Education	3.0
SPED08.540	Technology for Students with Special Needs	3.0
LDTC18.520	Neurological Bases of Educational Disorders	3.0
SELN10.593	Clinical Internship	3.0

#### Research Seminar Courses

**6 s.h.**

SELN10.600	Research Seminar in Special Education	3.0
SELN10.601	Research Seminar in Special Education	3.0

**Thesis Requirement:** none

### Program Website

[www.rowan.edu/graduateschool/graduate\\_programs/programs/education.htm#special](http://www.rowan.edu/graduateschool/graduate_programs/programs/education.htm#special)



**Coordinator/Contact Information**

Joy Xin, EdD  
 856-256-4734  
 xin@rowan.edu

**Master of Arts in Special Education - Track II**

**Program Description**

This advanced program is designed for individuals who possess a standard instructional certificate, or possess/are eligible for a CEAS, and wish to pursue a masters degree that will increase their knowledge and skills related to working with individuals with exceptional learning needs. The coursework and related field experiences are designed to foster an understanding of students' unique strengths and needs, as well as the pedagogical skills to accommodate these needs and provide appropriate curriculum modifications when necessary. Teacher candidates who successfully complete this program will be recommended for the New Jersey Teacher of Students with Disabilities certification.

**Admission Requirements**

- Completed Graduate application
- Undergraduate GPA of 2.75
- Standard New Jersey professional certificate (or possession of/eligibility for CEAS) in elementary or secondary subject area teaching
- Interview with program advisor
- Completion of a writing sample at the time of the interview
- Resume

**Application deadline:** Rolling Admissions

**Program Requirements**

- Total semester hours required for program completion: 41 s.h.

**Coursework**

**Required Certification Courses** **23 s.h.**

SPED08.555	Education & Psychology of Exceptional Learners	3.0
SELN10.581	Teaching Strategies for Managing Behavior of Disabled Students	3.0
SPED08.515	Curriculum, Instruction, and Transition in Special Education	3.0
SELN10.585	Educational Assessment in Special Education	3.0
READ30.530	Teaching Reading to Exceptional Children	3.0
SELN10.577	Collaborative Instruction in Inclusive Classrooms	3.0
SPED08.520	Clinical Experiences in Special Education	4.0
SELN10.592	Clinical Seminar in Special Education	1.0

**Specialization Courses** **9 s.h.**

Choose three (3) of the following:

LDTC18.503	Foundation of Learning Disabilities	3.0
SELN10.590	Teaching Students with Autism and PDD	3.0
SELN10.580	Teaching Students with Moderate and Severe Disabilities	3.0
SELN10.582	Communication Skills for Students with Disabilities	3.0

<a href="#">SELN10.586</a>	Emotional & Behavioral Support Strategies	3.0
<b>Restricted Elective Course</b>		<b>3 s.h.</b>
Choose one (1) of the following:		
<a href="#">SELN10.578</a>	Administration & Supervision in Special Education	3.0
<a href="#">SPED08.540</a>	Technology for Students with Special Needs	3.0
<a href="#">LDTC18.520</a>	Neurological Bases of Educational Disorders	3.0
<b>Research Seminar Courses</b>		<b>6 s.h.</b>
<a href="#">SELN10.600</a>	Research Seminar in Special Education	3.0
<a href="#">SELN10.601</a>	Research Seminar in Special Education	3.0

**Thesis Requirement:** none

### Program Website

[www.rowan.edu/graduateschool/graduate\\_programs/programs/education.htm#special](http://www.rowan.edu/graduateschool/graduate_programs/programs/education.htm#special)

### Coordinator/Contact Information

Joy Xin, EdD  
856-256-4734  
xin@rowan.edu

## Master of Education in Teacher Leadership

### Program Description

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. program is designed for teachers who desire to develop and hone their leadership skills and who wish to remain in the classroom. The program approaches leadership from the perspectives of exemplary teaching, continuous learning for all, a need to balance change with stability and the importance of peaceful existence in a diverse community of learners. To that end, teachers will enhance their abilities to lead not only in their classrooms, but also in the school at large by working with curriculum, becoming mentor/master teachers, developing new programs, and through a variety of other activities that improve schooling for all children.

The program consists of two areas of concentration: the core classes (which also stand alone as the Teaching and Learning Certificate of Graduate Study (COGS) and the Content Area Courses (which are any other College of Education-approved COGS).

### Admission Requirements

- Completed Graduate Application
- Must already be a teacher with one of the following: State Teaching Certificate, State Provisional Certificate, State Certificate of Eligibility with Advanced Standing, or Certificate of Eligibility (Include a copy of teacher certification with application materials).
- Must be actively teaching.
- No standardized tests are required.

**Application deadline:** Rolling Admissions

**Program Requirements**

- Total semester hours required for program completion: 30-36 s.h.
- Professional Synthesis Portfolio
- Teacher Leadership Presentation

**Coursework**

**Required Courses**

		<b>18 s.h.</b>
<a href="#">LDTC18.510</a>	Applied Theories of Learning	3.0
<a href="#">ELEM02.511</a>	Learning Community Classrooms	3.0
<a href="#">READ30.566</a>	Researching Classroom Practice	3.0
<a href="#">ELEM02.550</a>	Analysis of Classroom Teacher Behavior	3.0
<a href="#">EDST24.624</a>	Educational Change	3.0
<a href="#">CURR29.580</a>	Fundamentals of Curriculum Development	3.0

**Content Area Courses, 12-18 s.h.**

This requirement is satisfied by completing any COGS (Certificate of Graduate Study) approved by the M.Ed. program. College of Education-Approved Content Areas COGS currently available are:

- Educational Technology (15 credits, Available Fall 2008 online as accelerated courses)
- English as a Second Language (15-18 credits, Available Fall 2008 at Cumberland County College as accelerated courses with in-class instruction). This program leads to an ESL endorsement.
- Middle School Mathematics
- Middle School Science
- Reading
- Reading/Writing Literacy
- Secondary School Mathematics
- History
- Special Education (18 credits, Available Fall 2008 at Cumberland County College as accelerated courses online and in-class instruction). This program may lead to a Graduate Endorsement Teacher of Students with Disabilities with the addition of a 5-credit sequence.

**Program Exit**

Successful completion of all required coursework as well as a Professional Synthesis Portfolio (which includes an Action Research Project) and a Teacher Leadership Presentation. The M.Ed. has a field work component.

**Thesis Requirement:** none

**Additional Information**

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

This program is also available online through the College of Professional & Continuing Education. The M.Ed. is offered in an accelerated, online format. Applications for this delivery model are accepted and reviewed on a rolling basis up until 14 business days prior to the start of the next module. Applications must be complete by this deadline in order to receive a decision before the module begins. For additional information, visit program website.

**Program Website**

[www.rowan.edu/colleges/education/departments/teacher\\_ed/graduate/med/](http://www.rowan.edu/colleges/education/departments/teacher_ed/graduate/med/)

**Coordinator/Contact Information**

**Dr. James Coaxum, PhD**  
 856-256-4779  
 coaxum@rowan.edu

**Master of Science in Teaching in Collaborative Teaching**

**Program Description**

This Master of Science In Teaching - Collaborative Teaching (M.S.T.) program offers the unique opportunity for students to acquire an initial New Jersey K-5 teaching certificate, certification as Teacher of Students with Disabilities, and a Master's degree simultaneously. It is the fifth year of a five year undergraduate/graduate teacher education program - the Collaborative Education program. The five year program is designed to prepare prospective teachers for kindergarten through grade five teaching in general education classrooms and special education settings.

The program is both an academic and clinical program. The academic program comprises courses that present the knowledge and skills necessary for beginning teachers. The clinical component is ongoing across the five years; however, the fifth graduate year includes a four-day-per-week, semester-long clinical practice in the fall semester and a five-day-per-week, semester-long clinical student teaching experience in the spring semester. The students enrolled in the Collaborative Education program function throughout the program as a cohort group.

The M.S.T. in Collaborative Teaching program is presently offered as a full-time program only. The program cycle includes four consecutive terms beginning with a summer term and concluding after a second summer term. This graduate program requires admission for the summer term.

**Admission Requirements**

- Earned baccalaureate degree in the 4-year American Studies and Elementary Education Collaborative Teaching major
- GRE Test - GRE is waived for those applicants maintaining an undergraduate GPA of 3.5 or above
- Meeting the minimum New Jersey passing score(s) on the PRAXIS II Examination for K-5 certification

**Application deadline:** Open only to current Collaborative Education teacher candidates, who must apply to the graduate school during the second semester of their senior year

**Program Requirements**

- Total semester hours required for program completion: 36 s.h.

**Coursework**

<b>Summer</b>		<b>6 s.h.</b>
SPED08.515	Curriculum Instruction and Transition Planning	3.0
EDAM27.572	School Law and Public Policy	3.0
<b>Fall</b>		<b>14 s.h.</b>
SELN10.581	Teaching Strategies for Managing Behavior	3.0
EDUC01.601	Clinical Internship	5.0
EDUC01.603	Clinical Seminar I	2.0
EDST24.502	Initiation of Internship Project	1.0
EDST24.565	Analysis and Application of Research	3.0

<b>Spring</b>		<b>12 s.h.</b>
<a href="#">READ30.530</a>	Teaching Reading to the Exceptional Child	3.0
<a href="#">EDUC01.605</a>	Clinical Internship I	7.0
<a href="#">EDUC01.607</a>	Clinical Seminar II	1.0
<a href="#">EDST24.602</a>	Development of Internship Project	1.0
<b>Summer</b>		<b>4 s.h.</b>
<a href="#">FNDS21.504</a>	Foundations of Cross Cultural Education	3.0
<a href="#">EDST24.608</a>	Internship Project Report	1.0

**Thesis Requirement: Yes**

**Program Website**

[www.rowan.edu/colleges/education/departments/teacher\\_ed/graduate/teaching/](http://www.rowan.edu/colleges/education/departments/teacher_ed/graduate/teaching/)

**Coordinator/Contact Information**

Dr. James Coaxum, PhD  
 856.256.4779  
[coaxum@rowan.edu](mailto:coaxum@rowan.edu)

**Master of Science in Teaching in Elementary/Secondary Education**

**Program Description**

The Master of Science in Teaching (M.S.T.) in Elementary/Secondary 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 elementary or subject matter (K-12) teachers.

Students whose undergraduate degree is in a professional or technical area may need to take as many as 30 additional undergraduate credits to meet certification requirements before being accepted into the program. Questions about appropriate undergraduate majors, academic sequences or pre-requisites should be directed to the program advisor.

The subject matter (secondary) program is designed for prospective social studies, English, mathematics, world languages and science teachers. The elementary program is designed to prepare prospective teachers for kindergarten through grade five. The M.S.T. program is a full-time program. The program cycle includes four consecutive terms beginning with a summer term and concluding after a second summer term.

**Specializations (both have the same course requirements)**

- Elementary
- Subject Matter Education

**Admission Requirements**

- Completed Graduate Application
- Praxis I (Reading:175; Writing:173; Math 174)
- Meeting the minimum New Jersey passing score(s) on the PRAXIS II Examination for the appropriate certification area.
- Undergraduate GPA of 2.75

- A baccalaureate or master's degree in the arts and sciences discipline relevant to the area of prospective teacher certification, which is a New Jersey Department of Education and certification approved major or coherent academic sequence. Students without the appropriate field of study may have to complete undergraduate courses prior to being eligible for admission into the program.
- Two or fewer prerequisites to be taken concurrently with the M.S.T. program
- An interview with program faculty

**Application deadline:** March 15th for Fall Admission

**Program Requirements**

- Total semester hours required for program completion: 40 s.h.

**Coursework**

Required Courses	40 s.h.
ELEM02.511	Learning Community Classrooms 3.0
EDUC01.500	Trends & Practices in Classroom Teaching 3.0
READ30.515	Teaching Reading across the Grades 3.0
ELEM02.512	Teaching Math, Science, and Health in Elementary Classrooms (Elementary) 3.0
<i>or</i> SMED60.500	Teaching Methods I: [Subject Area] (Secondary) 3.0
EDUC01.601	Clinical Internship I 5.0
EDUC01.610	Teaching for Equity and Achievement 3.0
SELN10.576	Effective Inclusive Instruction 3.0
ELEM02.513	Teaching Language Arts, Social Studies, and the Arts in Elementary Classrooms [Elementary] 3.0
<i>or</i> SMED60.501	Teaching Methods II: [Subject Matter] 3.0
EDUC01.605	Clinical Internship II 7.0
EDST24.504	Action Research in Education 3.0
EDUC02.602	MST Professional Seminar 2.0
EDST24.608	Internship Project Report 2.0

**Program Website**

[www.rowan.edu/colleges/education/departments/teacher\\_ed/graduate/teaching/](http://www.rowan.edu/colleges/education/departments/teacher_ed/graduate/teaching/)

**Coordinator/Contact Information**

James Coaxum. PhD  
 856.256.4779  
 coaxum@rowan.edu

**Certificate of Advanced Graduate Study (CAGS) in Principal Preparation**

**Program Description**

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 in some field and who wants to qualify as a principal in the public schools. The Principal's Certification Program comprises three different tracks. Applicants must select a track that best meets their needs (based on supervisory experience and NJ Certification code) at the time of admission.

### Admission Requirements

- Completed Graduate application
- Typewritten statement of professional objectives and reflective essay on what the candidate expects to achieve as a result of study in this graduate program
- Two letters of recommendations from the candidates superintendent, supervisor, or professional colleague attesting to his/her potential as a principal
- Master's degree from an accredited college or university
- Interview with and/or positive recommendation of the program advisor
- For Track 1 applicants only - Valid N.J. supervisor's certificate and official documentation (e.g., a letter from the applicant's district superintendent) attesting that the applicant has a minimum of 5 years of full-time experience in a position that requires the supervisors certificate
- For Track 2 applicants only - Valid N.J. supervisor's certificate and official documentation (e.g., a letter from the applicant's district superintendent) attesting that the applicant has successfully completed (a) a minimum of 5 years in full-time teaching, and (b) 0-5 years of full-time experience in a position that requires the supervisor's certificate
- For Track 3 applicants only - Official documentation (e.g., a letter from the applicant's district superintendent) attesting that the applicant has successfully completed a minimum of 5 years in full-time teaching

**Application deadline:** Rolling Admissions

### Program Requirements - Track I (For candidates with Masters Degree, Supervisor's Certificate, and 5 Years or More of Supervisory Experience)

- Total semester hours required for program completion: 16 to 27 s.h. (depending on track)

### Coursework

#### Required Core Courses

		<b>16 s.h.</b>
<a href="#">EDAM27.506</a>	Introduction to School Leadership	3.0
<a href="#">EDAM27.535</a>	School Finance and Records	3.0
<a href="#">EDAM27.559</a>	Law and Ethics for School Leadership	3.0
<a href="#">EDAM27.510</a>	Change for School Improvement	3.0
<a href="#">EDSU28.523</a>	Building Organizational Capacity	3.0
<a href="#">EDSU28.602</a>	Field Service in Education: District Internship	1.0

### Program Requirements - Track II

(For candidates with Masters Degree, Supervisor's Certificate, 5 Years of Full-Time Teaching Experience, and 0-5 Years of Supervisory Experience)

- Total semester hours required for program completion: 20 s.h.

### Coursework

#### Required Core Courses

		<b>20 s.h.</b>
<a href="#">EDAM27.506</a>	Introduction to School Leadership	3.0
<a href="#">EDAM27.535</a>	School Finance and Records	3.0
<a href="#">EDAM27.559</a>	Law and Ethics for School Leadership	3.0
<a href="#">EDSU28.522</a>	Instructional Leadership and Supervision	3.0
<a href="#">EDAM27.510</a>	Change for School Improvement	3.0
<a href="#">EDSU28.523</a>	Building Organizational Capacity	3.0
<a href="#">EDSU28.602</a>	Field Service in Education: District Internship	2.0

### Program Requirements - Track III

(For candidates with Masters degree and 5 Years of Full-Time Teaching Experience)

- Total semester hours required for program completion: 27 s.h.

### Coursework

#### Required Core Courses

		27 s.h.
<a href="#">CURR29.580</a>	Fundamentals of Curriculum Development	3.0
<a href="#">EDSU28.546</a>	Educational Organizations and Leadership	3.0
<a href="#">EDAM27.535</a>	School Finance and Records	3.0
<a href="#">EDAM27.559</a>	Law and Ethics for School Leadership	3.0
<a href="#">EDAM27.510</a>	Change for School Improvement	3.0
<a href="#">EDSU28.522</a>	Instructional Leadership and Supervision	3.0
<a href="#">EDSU28.523</a>	Building Organizational Capacity	3.0
<a href="#">EDAM27.600</a>	Practicum/Seminar in Administration and Supervision	3.0
<a href="#">EDST24.504</a>	Action Research in Education	3.0
or <a href="#">EDAM27.632</a>	Technology for Educational Leadership	3.0

**Thesis Requirement:** none

### Program Website

[www.rowan.edu/colleges/education/departments/education\\_leadership/graduate/principal](http://www.rowan.edu/colleges/education/departments/education_leadership/graduate/principal)

### Coordinator/Contact Information

James Coaxum, Ph.D  
856-256-4779  
coaxum@rowan.edu

## Certificate of Graduate Study (COGS) in Autism Spectrum Disorders

### Program description

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 or this rapidly expanding population. Students will understand the definition and causes of the various syndromes within the broad category of Autism Spectrum Disorders. They will also learn how to design and modify instruction for individuals with ASD to address their learning, social, behavior, and communication needs.

### Admissions Requirements

- Completed Graduate Application
- Minimum of a bachelors degree in a related field (education, special education, psychology, criminal justice)
- Minimum 2.5 undergraduate GPA

**Application deadline:** Rolling Admissions

### Program Requirements

- Total semester hours required for program completion: 15 s.h.



### Coursework

#### Required Core Courses

SELN10.580	Introduction to Autism Spectrum Disorders	3.0
SELN10.591	Instructional Methods for Students with Autism Spectrum Disorders	3.0
SELN10.582	Communication Skills for Students with Disabilities	3.0
PSY02.610	Applied Behavior Analysis	3.0
PSY02.520	Assessment and Interventions for Social Interactions and Relationships in Children	3.0

**Thesis Requirements:** none

#### Coordinator/Contact Information

S. Jay Kuder  
(856) 256-4000, ext. 3797  
kuder@rowan.edu

## Certificate of Graduate Study (COGS) in Educational Technology

#### Program Description

The Certificate of Graduate Study in Educational Technology includes a comprehensive picture of the use of computers in education today. The goal of this program is to provide educators with the knowledge and proficiencies needed to incorporate the 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.

#### Admission Requirements

- Completed CPCE Graduate Application

**Application deadline:** Rolling Admissions

#### Program Requirements

- Total semester hours required for program completion: 15 s.h.

### Coursework

#### Required Courses

		<b>15 s.h.</b>
EDTC33.580	Introduction to Educational Technology	3.0
EDTC33.584	Desktop Publishing in the Educational Environment	3.0
SMED33.510	Computers and the Curriculum	3.0
EDTC33.585	Internet and the Classroom	3.0
SPED08.540	Technology for Students with Special Needs	3.0

**Thesis Requirement:** none

#### Additional Information

This program is currently available only online through the College of Professional & Continuing Education. For additional information, please visit program website.

## Program Website

[www.rowan.edu/colleges/education/departments/foundations/graduate/educational\\_technology/cogs.html](http://www.rowan.edu/colleges/education/departments/foundations/graduate/educational_technology/cogs.html)

## Coordinator/Contact Information

James Coaxum  
856-256-4779  
coaxum@rowan.edu

## Certificate of Graduate Study (COGS) in English as a Second Language

### Program Description

There is a need for highly qualified teachers trained to work with the growing numbers of English language learners in the schools. This program is open to candidates who possess NJ standard instructional certification in other areas, as well as to alternate route candidates who are eligible for NJ instructional certification. The program is approved by the New Jersey State Department of Education. Specific objectives are to: demonstrate application of theory to practice, develop long-range and short-range plans that integrate language and content, design appropriate authentic assessment instruments, reflect on lessons taught to make appropriate modifications in instruction, and use technology to research content and instructional techniques.

The COGS also represents an opportunity for prospective teachers of ESL to continue their professional development in the M.Ed. in Teacher Leadership and in the MA in Higher Education, Instructional Track.

### Admission Requirements

- Completed Graduate Application
- Possession of or eligibility for New Jersey standard instructional certification
- Scores of Advanced Low or higher on proficiency testing in oral and written English is required for the ESL certificate. (Language Testing International <http://www.languageesting.com/>)

**Application deadline:** See advisor for current information.

### Program Requirements

- Total semester hours required for program completion: 18 s.h.
- Students must maintain a B average

### Coursework

Required Courses		18 s.h.
<a href="#">BLED40.510</a>	Issues of Language & Diversity in ESL\Bilingual Programs	3.0
<a href="#">BLED40.512</a>	Linguistics for Teaching Second Languages	3.0
<a href="#">ENGL05.501</a>	Teaching American English Grammar	3.0
<a href="#">BLED40.515</a>	Language, Culture and Communication	3.0
<a href="#">BLED40.517</a>	Modern Developments in ESL\Bilingual Education	3.0
<a href="#">BLED40.520</a>	Teaching ESL Education: Process and Practice	3.0

**Thesis Requirement:** none

### **Program Website**

[www.rowan.edu/colleges/education/departments/teacher\\_ed/graduate/esl\\_bilingual/cogs.html](http://www.rowan.edu/colleges/education/departments/teacher_ed/graduate/esl_bilingual/cogs.html)

Contact Advisor for more information.

### **Coordinator/Contact Information**

Jackie Benevento  
856-256-4649  
benevento@rowan.edu

## **Certificate of Graduate Study (COGS) in Reading**

### **Program Description**

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 COGS in Reading does not lead to any state certification. All courses carry over to the MA in Reading as appropriate.

### **Admission Requirements**

- Completed Graduate Application

**Application deadline:** Rolling Admissions

### **Program Requirements**

- Total semester hours required for program completion: 15 s.h.

### **Coursework**

<b>Required Courses</b>		<b>12 s.h.</b>
<a href="#">READ30.515</a>	Teaching Reading Across the Grades	3.0
<a href="#">READ30.520</a>	Content Area Literacy	3.0
<a href="#">READ30.535</a>	Word Study: Phonics, Spelling, and Vocabulary Instruction	3.0
<a href="#">READ30.552</a>	Selected Topics in Reading	3.0
<b>Elective Course</b>		<b>3 s.h.</b>
Choose one of the following:		
<a href="#">ELEM02.511</a>	Learning Community Classrooms	3.0
<a href="#">ELEM02.550</a>	Analysis of Classroom Teacher Behavior	3.0

**Thesis Requirement:** none

### **Coordinator/Contact Information**

Stacey Leftwich, PhD  
856-256-4500 Ext. 3821  
leftwich@rowan.edu

## **Certificate of Graduate Study (COGS) in Reading/Writing Literacy**

### **Program Description**

This program meets the increasing need for highly qualified practitioners in the area of Reading/Writing Literacy as required by the No Child left Behind Act of 2001. 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 COGS in Reading/Writing Literacy does not lead to any state certification. All courses carry over to either the MA in Writing or the MA in Reading as appropriate.

### **Admission Requirements**

- Completed Graduate Application

**Application deadline:** Rolling Admissions

### **Program Requirements**

- Total semester hours required for program completion: 15 s.h.

### **Coursework**

#### **Required Courses**

**15 s.h.**

Choose five (5) of the following courses:

<a href="#">READ30.515</a>	Teaching Reading Across the Grades	3.0
<a href="#">READ30.520</a>	Content Area Literacy	3.0
<a href="#">READ30.535</a>	Word Study: Phonics, Spelling, and Vocabulary Instruction	3.0
<a href="#">READ30.552</a>	Selected Topics in Reading	3.0
<a href="#">MAWR01.549</a>	Issues in Composition	3.0
<a href="#">MAWR01.556</a>	Assessment of Writing	3.0
<a href="#">MAWR01.618</a>	Special Topics in Writing	3.0

**Thesis Requirement:** none

### **Program Website**

[www.rowan.edu/graduateschool/certifications/](http://www.rowan.edu/graduateschool/certifications/)

### **Coordinator/Contact Information**

Stacey Leftwich  
856-256-4500 Ext. 3821  
[Leftwich@rowan.edu](mailto:Leftwich@rowan.edu)

## **Certificate of Graduate Study (COGS) in Special Education**

### **Program Description**

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 COGS can be completed in a hybrid or traditional format and can be used to satisfy the COGS requirement in the Master of Education. Teachers who successfully complete the COGS coursework can also opt to continue pursuit of the Teacher of Students with Disabilities Graduate Endorsement Program (see a department representative for additional details).

**Admission Requirements**

- Completed Graduate Application

**Application deadline:** Rolling Admissions

**Program Requirements**

- Total semester hours required for program completion: 18 s.h.

**Coursework**

Required Courses		18 s.h.
<a href="#">SPED08.555</a>	Education and Psychology of Exceptional Learners	3.0
<a href="#">SPED08.515</a>	Curriculum, Instruction, & Transition in Special Education	3.0
<a href="#">SELN10.581</a>	Implementing Positive Behavior Supports	3.0
<a href="#">READ30.530</a>	Teaching Reading to Exceptional Children	3.0
<a href="#">SELN10.577</a>	Collaborative Instruction in Inclusive Classrooms	3.0
<a href="#">SELN10.585</a>	Educational Assessment in Special Education	3.0

**Thesis Requirement:** none

**Additional Information**

This program is also available online through the College of Professional & Continuing Education. For additional information, please visit program website.

**Program Website**

[www.rowan.edu/colleges/cpce/academic/sped.cfm](http://www.rowan.edu/colleges/cpce/academic/sped.cfm)

**Coordinator/Contact Information**

Donna Hathaway Cook, EdD  
856.256.4767  
hathaway@rowan.edu

**Certificate of Graduate Study (COGS) in Teaching and Learning**

**Program Description**

The Teaching and Learning COGS is designed for teachers who desire to develop and hone their leadership skills and who wish to remain in the classroom. The program approaches leadership from the perspectives of exemplary teaching, continuous learning for all, a need to balance change with stability and the importance of peaceful existence in a diverse community of learners. This COGS serves as the Core of the M.Ed. in Teacher Leadership.

The following Five Core Propositions of the National Board for Professional Teaching Standards (NBPTS) and three additional Principles identified by College of Education faculty provide the focus for the master's program:

### **NBPTS Propositions**

1. Teachers are committed to students and their learning.
2. Teachers know the subjects they teach and how to teach those subjects to students.
3. Teachers are responsible for managing and monitoring student learning.
4. Teachers think systematically about their practice and learn from their experience.
5. Teachers are members of learning communities.

### **Rowan Program Principles**

1. Teachers account for the needs of culturally, linguistically, and cognitively diverse learners.
2. Teachers are change agents, teacher leaders, and partners with colleagues.
3. Teachers use technology to facilitate student learning and their own professional development.

### **Admission Requirements**

- Completed Graduate Application
- Must already be a teacher with one of the following: State Teaching Certificate, State Provisional Certificate, State Certificate of Eligibility with Advanced Standing, or Certificate of Eligibility (Include a copy of teacher certification with application materials).
- Must be actively teaching.

**Application deadline:** Applications are accepted and reviewed on a rolling basis up until 14 business days prior to the start of the next module. Applications must be complete by this deadline in order to receive a decision before the module begins.

### **Program Requirements**

- Total semester hours required for program completion: 18 s.h.

### **Coursework**

#### **Required Courses**

		<b>18 s.h.</b>
<a href="#">LDTC18.510</a>	Applied Theories of Learning	3.0
<a href="#">ELEM02.511</a>	Learning Community Classrooms	3.0
<a href="#">READ30.566</a>	Researching Classroom Practice	3.0
<a href="#">ELEM02.550</a>	Analysis of Classroom Teacher Behavior	3.0
<a href="#">EDST24.624</a>	Educational Change	3.0
<a href="#">CURR29.580</a>	Fundamentals of Curriculum Development	3.0

**Thesis Requirement:** none

### **Additional Information**

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

### **Program Website**

[www.rowan.edu/colleges/education/departments/teacher\\_ed/graduate/teaching\\_learning/](http://www.rowan.edu/colleges/education/departments/teacher_ed/graduate/teaching_learning/)

### **Coordinator/Contact Information**

**Gloria Hill**  
856-256-4500 Ext. 3851  
[hillgl@rowan.edu](mailto:hillgl@rowan.edu)

## Associate School Library Media Specialist Certification

### Program Description

The goal of the Associate School Library Media Specialist Certification program is to educate school media specialists to meet the current and future needs of schools in southern New Jersey. The program ensures that, with supervision, those who complete the program can manage media centers, know print and other media and are qualified to teach information literacy skills needed by 21st Century K-12 students.

Many of our courses are taught in a hybrid mode, partially on-campus and partially online to accommodate commuters. On-campus courses are offered in the late afternoons and Saturdays for the convenience of working students. We are the only program in South Jersey approved to offer courses for New Jersey certification as Associate School Library Media Specialist. While the program is designed for certified teachers, students who are not certified teachers may take three additional courses in education in order to be recommended for School Library Media Specialist certification.

### Admission Requirements

- Completed Graduate Application
- 2.75 Undergraduate GPA
- Writing sample of short essay answers (1-2 substantial paragraphs) to the following questions:
  - a. Explain your principal objectives for enrolling in graduate study.
  - b. Describe a difficult challenge you have faced as a student and how you dealt with it.
  - c. Give an example of a goal you achieved that was important to you and analyze how you achieved it.
  - d. What intellectual and personal qualities do you have that will make you a successful school media specialist or professional librarian.

**Application deadline:** Contact Advisor for current information.

### Program Requirements

- Total semester hours required for program completion: 23-24 s.h.

### Coursework

Required Courses		23-24 s.h.
<a href="#">LIBR01.506</a>	Foundations of Librarianship	3.0
<a href="#">LIBR01.505</a>	Reference Services & Resources I	3.0
<a href="#">LIBR01.521</a>	Design & Production of Educational Media	3.0
<a href="#">LIBR01.510</a>	Library Collections and Resources	3.0
<a href="#">LIBR01.511</a>	Organization of Library Resources	3.0
<a href="#">LIBR01.502</a>	Survey of Childrens Literature	3.0
<a href="#">LIBR01.503</a>	Survey of Young Adult Literature	3.0
<a href="#">LIBR01.580</a>	Practicum in Library Services	2.0-3.0

**Thesis Requirement:** none

### Program Website

[www.rowan.edu/graduateschool/certifications/index.htm](http://www.rowan.edu/graduateschool/certifications/index.htm)

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### **Coordinator/Contact Information**

Holly Willett, PhD  
856-256-4561  
willett@rowan.edu

## **Bilingual/Bicultural Education Certification**

### **Program Description**

This program responds to the need for highly qualified teachers prepared to teach content in both the students 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.

### **Specializations**

- Spanish

### **Admission Requirements**

- Completed Graduate Application
- Possession of or eligibility for New Jersey instructional certification with an appropriate endorsement to the subject or grade level to be taught in a bilingual setting
- Scores of Advanced Low or higher in proficiency tests in both oral and written English as well as in the target language (Language Testing International <http://www.languagetesting.com/>)

**Application deadline:** Rolling Admissions

### **Program Requirements**

- Total semester hours required for program completion: 12 s.h.

### **Coursework**

#### **Required Courses**

		<b>12 s.h.</b>
<a href="#">BLED40.510</a>	Issues of Language and Cultural Diversity in ESL/Bilingual Programs	3.0
<a href="#">BLED40.512</a>	Linguistics for Teaching Second Languages	3.0
<a href="#">BLED40.517</a>	Modern Developments in ESL/Bilingual Education	3.0
<a href="#">BLED40.521</a>	Teaching Bilingual Education: Process and Practice	3.0

**Thesis Requirement:** none

### **Program Website**

[www.rowan.edu/colleges/education/departments/teacher\\_ed/graduate/esl\\_bilingual/](http://www.rowan.edu/colleges/education/departments/teacher_ed/graduate/esl_bilingual/)

### **Coordinator/Contact Information**

Jackie Benevento, EdD  
856-256-4649



benevento@rowan.edu

## Learning Disabilities Teacher-Consultant Certification

### Program Description

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 Masters degree in learning disabilities from another institution or a masters 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.

The Program Advisor and Program Coordinator will review an applicants graduate transcripts to determine which, if any, courses fulfill existing requirements to earn the LDT-C certificate.

### Admission Requirements

- Completed Graduate Application
- Standard New Jersey instructional (i.e., teaching) certificate
- Two letters of recommendation (one recommendation from the candidate's superintendent, principle or supervisor and one from a professional colleague both attesting to her/his potential as an LDT-C )
- Documentation of one-year of effective, classroom teaching experience (need a minimum of three years at completion of program)
- Interview with the program advisor and on-site writing sample

**Application deadline:** Rolling Admissions

### Program Requirements

- Total semester hours required for program completion: 33 s.h. (assuming no courses transfer from prior masters degree)

### Coursework

<b>Required Courses</b>		<b>6 s.h.</b>
<a href="#">LDTC18.516</a>	Applied Tests and Measurements	3.0
<a href="#">LDTC18.510</a>	Applied Theories of Learning	3.0
<b>Specialization Courses</b>		<b>27 s.h.</b>
<a href="#">SPED08.555</a>	Education & Psychology of Exceptional Learners	3.0
<a href="#">LDTC18.520</a>	Neurological Bases of Educational Disorders	3.0
<a href="#">READ30.535</a>	Teaching Reading to the Exceptional Child	3.0
<a href="#">LDTC18.503</a>	Foundations of Learning Disabilities	3.0
<a href="#">LDTC18.504</a>	Assessment of Learning Disabilities	3.0

LDT C18.505	Correction of Learning Disabilities	3.0
LDT C18.525	Advanced Assessment Techniques	3.0
LDT C18.650	Clinical Field Experience in Learning Disabilities	6.0

**Thesis Requirement:** none

**Program Website**

[www.rowan.edu/graduateschool/certifications/index.htm](http://www.rowan.edu/graduateschool/certifications/index.htm)

**Coordinator/Contact Information**

Sharon Davis Bianco, EdD  
856-256-4500 Ext. 3796  
Bianco@rowan.edu

## School Nursing Post Baccalaureate Certification

**Program Description**

The School Nurse Post Baccalaureate 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 School Nurse Post-Baccalaureate 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.

**Admission Requirements**

- Completed CPCE Application
- Baccalaureate degree from an accredited college or university (with an earned grade point average greater than 2.5) OR current enrollment in the UMDNJ/Rowan University BSN program
- Current (or eligibility for), a New Jersey Professional Registered Nurse (RN) License issued by the N.J. State Board of Nursing OR current enrollment in the UMDNJ/Rowan University BSN program
- Current certificates in cardiopulmonary resuscitation (CPR) and automated external defibrillators (AED)
- Nursing experience

**Application deadline:** Rolling Admissions

**Program Requirements**

- Total semester hours required for program completion: 36 s.h.

**Coursework**

<b>Prerequisites for the certification program</b>	<b>18 s.h.</b>
Community Health Nursing	3.0
Adolescent/Child/Human Development	3.0
Human and Intercultural Relations	3.0
Health Assessment	3.0
Special Education/Human Exceptionality	3.0
<b>Certification Courses*</b>	<b>18 s.h.</b>
(all must be taken at Rowan and can be found in the Undergraduate Catalog)	
SNUR92.466 School Health Services	3.0
SNUR92.444 Practicum in School Nursing	5.0
SNUR92.430 Methods and Materials in Health Teaching for School Nurses	3.0
SNUR92.448 Health Teaching Methods for School Nursing Seminar**	2.0
SNUR92.445 Internship in Health Teaching for School Nursing**	5.0

\*A 3.0 GPA in the major certification/professional courses must be maintained to progress in the certification program.

\*\*Prerequisite: Methods and Materials in Health Teaching for School Nurses

**Thesis Requirement:** none

**Additional Information**

[www.rowan.edu/colleges/education/departments/special\\_educational\\_services/certification/school\\_nurse/](http://www.rowan.edu/colleges/education/departments/special_educational_services/certification/school_nurse/)

**Coordinator/Contact Information**

Amanda DeValerio  
 856-256-5123  
 devalerio@rowan.edu

**Supervisor's Certification**

**Program Description**

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.

**Admission Requirements**

- Completed Graduate Application
- Typewritten statement of objectives and reflective essay on what the candidate expects to achieve as a result of study in this graduate program
- Two letters of recommendation from the candidate's superintendent, supervisor, or from a professional colleague attesting to his/her potential as a supervisor
- Masters degree from an accredited college or university or concurrently matriculated in a M.A. degree program at Rowan University

- Regular New Jersey or out-of-state instructional (i.e., teaching) certificate or educational services certificate, other than emergency or provisional
- Interview with and/or positive recommendation of the program advisor

**Application deadline:** Rolling Admissions

**Program Requirements**

- Total semester hours required for program completion: 12 s.h.

**Coursework**

**Required Courses** **6 s.h.**

[CURR29.580](#) Fundamentals of Curriculum Development 3.0

[EDSU28.546](#) Educational Organizations and Leadership 3.0

**Required Curriculum Course** **3 s.h.**

Choose one (1) of the following:

[CURR29.547](#) Curriculum Theory 3.0

[CURR29.550](#) Public School Curriculum 3.0

[CURR29.590](#) Curriculum Evaluation 3.0

[ELEM02.536](#) Elementary School Curriculum 3.0

[SPED08.515](#) Curriculum, Instruction, and Transition in Special Education 3.0

[ELEM02.538](#) Contemporary Curriculum Processes/Elementary Science 3.0

[ELEM02.540](#) Contemporary Curriculum Processes/Elementary Mathematics 3.0

[ECED23.510](#) Curriculum Development in Early Childhood Programs 4.0

[PHED35.592](#) Curriculum Construction in Health & Physical Education 3.0

[HLTH37.525](#) Curriculum Strategies in Substance Awareness Education 3.0

**Required Supervision Course** **3 s.h.**

Choose one (1) of the following:

[EDSU28.522](#) Instructional Leadership and Supervision 3.0

[EDSU28.523](#) Building Organizational Capacity 2 3.0

[READ30.540](#) Administration and Supervision of School Reading Programs 3.0

[SELN10.578](#) Administration and Supervision of Education for the Handicapped 3.0

[EDSU28.501](#) Administration and Supervision of Music Programs 3.0

**Thesis Requirement:** none

**Program Website**

[www.rowan.edu/colleges/education/departments/education\\_leadership/graduate/supervisor/index.html](http://www.rowan.edu/colleges/education/departments/education_leadership/graduate/supervisor/index.html)

**Coordinator/Contact Information**

James Coaxum, PhD

856-256-4779

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## Post Baccalaureate Program in Reading

### Program Description

The Post Baccalaureate Program in 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.

### Admission Requirements

- Completed Graduate Application
- Completion of Teaching Literacy (or its approved equivalent) with a grade of B or better
- Completion of an application form (with essay)

**Application deadline:** Rolling Admissions

### Program Requirements

- Total semester hours required for program completion: 30 s.h. (Some courses are undergraduate and can be located in the Undergraduate Catalog)

### Coursework

#### Area A: Reading Theory and Pedagogy

**12 s.h.**

Choose from the following:

READ30.510	Teaching Reading Across the Grades	3.0
READ30.520	Content Area Literacy	3.0
READ30.530	Teaching Reading to the Exceptional Child	3.0
READ30.535	Word Study: Phonics, Spelling, and Vocabulary Instruction	3.0
READ30.540	Administration & Supervision of School Reading Problems	3.0
READ30.280	Teaching Literacy	3.0
READ30.351	Differentiated Literacy Instruction	2.0
and ELEM02.338	Practicum in Mathematics and Literacy	1.0
READ30.347	Phonics and Spelling	3.0
READ30.350	Using Children's Literature in the Reading/Writing Classroom	3.0

#### Area B: Application through Tutoring

**6 s.h.**

Choose from the following:

READ30.550	Diagnosis of Remedial Reading Problems	3.0
READ30.560	Correction of Remedial Reading Problems	3.0
READ30.570	Clinical Experiences in Reading	6.0
READ30.421	School Reading Problems*	3.0
READ30.451	Supervised Clinical Practice**	3.0

\* Teaching Literacy (READ 30.280) *or* Teaching Reading Across the Grades (READ 30.515), Differentiated Literacy Instruction (READ 30.351) *or* Teaching Reading to the Exceptional Child

(READ 30.530), and Phonics and Spelling (READ 30.347) *or* Word Study (READ 30.535 ) must be taken before School Reading Problems (READ 30.421).

\*\*School Reading Problems (READ 30.421) is a prerequisite for Supervised Clinical Practice (READ 30.451)

**Area C: Core/Supporting Courses**

**12 s.h.**

Choose from the following:

ELEM02.539	Contemporary Curriculum Processes/Elementary Language Arts	3.0
PSY22.512	Educational Psychology	3.0
PSY22.586	Psychology of Motivation and Learning	3.0
ENT06.506	Statistics in Educational Research	3.0
LIBR01.502	Survey of Children's Literature	3.0
LIBR01.503	Survey of Young Adult Literature	3.0
FNDS21.230	Characteristics of Knowledge Acquisition	3.0
SPED08.130	Human Exceptionality	3.0
READ30.120	Literacies in Today's World	3.0
EDUC01.272	Teaching in Learning Communities II	2.0
EDST03.350	Teaching Students of Linguistic and Cultural Diversity	1.0

**Thesis Requirement:** none

**Program Website**

**Coordinator/Contact Information**

Jeffrey Margolis  
 856-256-4759  
 margolis@rowan.edu

**Graduate Endorsement: Teacher of Students with Disabilities**

**Program Description**

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 Masters degree may transfer 9 credit hours to the Master of Arts in Special Education program and must apply through the Graduate School.

**Admission Requirements**

- Completed CPCE Application
- Scores of Praxis II in elementary content or a secondary area
- Bachelors degree from an accredited institution of higher learning with a 2.75 GPA

- An interview with the program advisor
- Completion of a writing sample at the time of the interview
- Resume
- Evidence of appropriate teaching certification

**Application deadline:** Rolling Admissions

**Program Requirements**

- Total semester hours required for program completion: 23 s.h.

**Coursework**

Required Courses			23 s.h.
SPED08.555	Education and Psychology of Exceptional Learners		3.0
SELN10.581	Implementing Positive Behavior Strategies		3.0
SPED08.515	Curriculum, Instruction, Transition in Special Education		3.0
SELN10.585	Educational Assessment in Special Education		3.0
READ30.530	Teaching Reading to the Exceptional Children		3.0
SELN10.577	Collaborative Instruction in Inclusive Classrooms		3.0
SPED08.520	Clinical Experiences in Special Education		4.0
SELN10.592	Clinical Seminar in Special Education		1.0

**Additional Information**

Students who have completed the COGS in Special Education and want to pursue the certification of Teacher of Students with Disabilities need to reapply for this endorsement program.

**Program Website**

[www.rowan.edu/graduateschool/certifications/index.htm](http://www.rowan.edu/graduateschool/certifications/index.htm)

**Coordinator/Contact Information**

Joy Xin, EdD  
856-256-4734  
xin@rowan.edu

**Post Baccalaureate Endorsement Program: Teacher of Students with Disabilities**

**Program Description**

This endorsement program leads to certification as a Teacher of Students with Disabilities and is available to students who have been admitted to teacher certification programs or who already hold, or are eligible for, New Jersey teaching certificates. 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 Certification. Please note that all classes have required field placement components. Teacher of Students with Disabilities certification is granted only when a student has fulfilled all requirements for an initial teaching certification and has passed the Praxis II (10352): Application of Core Principles across Categories of Disability.

**Admission Requirements**

- Completed CPCE Graduate Application
- Bachelor's degree from an accredited institution of higher learning with a 2.75 GPA

- An interview with the program advisor
- A resume
- Evidence of appropriate teaching certification or certificate of eligibility
- Scores for Praxis II in elementary content or a subject-matter area
- Grade of B or better in Human Exceptionality (SPED08.130)

**Application deadline:** Rolling Admissions

**Program Requirements**

- Total semester hours required for program completion: 27 s.h. (These are undergraduate courses and can be found in the Undergraduate Catalog)

**Coursework**

Required Courses		27 s.h.
SPED08.130	Human Exceptionality	3.0
SPED08.360	Positive Behavioral Support Systems for Students with Exceptional Learning Needs	3.0
SPED08.316	Differentiated Instruction in the Inclusive Classroom	2.0
READ30.280	Teaching Literacy	3.0
READ30.351	Differentiated Literacy Instruction	2.0
SPED08.308	Assistive Technology and Transition Planning for Students with Exceptional Learning Needs	3.0
SPED08.307	Assessment of Students with Exceptional Learning Needs	3.0
SPED08.415	Specialized Instruction for Students with Exceptional Learning Needs	3.0
SPED08.445	Clinical Seminar in Special Education	1.0
SPED08.450	Clinical Practice in Special Education	4.0

**Thesis Requirement:** none

**Additional Information**

This program is also available online through the College of Professional & Continuing Education. For additional information, please visit program website.

Students who are admitted to the Early Childhood Education program should consult with their advisors regarding specific requirements. Also, course descriptions can be found in the 2009-2010 Undergraduate Catalog.

**Program Website**

[www.rowan.edu/colleges/education/departments/special\\_educational\\_services/certification](http://www.rowan.edu/colleges/education/departments/special_educational_services/certification)

**Coordinator/Contact Information**

Charles (Chuck) Brett  
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## College of Engineering

**Dianne Dorland, Ph.D., P.E., Dean**

**856-256-5300**

**dorland@rowan.edu**

**Steven Chin, Ph.D., P.E., Associate Dean**

**856-256-5301**

**chin@rowan.edu**

The College of Engineering consists of programs in the areas of chemical engineering, civil & environmental engineering, electrical & computer engineering, engineering management, and mechanical engineering. Each undergraduate degree is ABET accredited. There are a total of 32 faculty members, who cohesively collaborate as a multidisciplinary unit. The engineering program is designed to provide students with the tools needed to contribute to the technological and economic development of our global society.

The graduate program is tailored to provide students with opportunities to enhance the breadth of their education, or to specialize in a technical area. It also provides a strong foundation for doctoral studies. Industry partnerships provide an additional dimension to the graduate program through joint ventures in Engineering Clinic, research and development projects. The result is a new breed of engineer; professionals schooled in practical applications and theory, and agile engineers ready to improve existing processes and products, and create new systems.

### **Programs Offered**

- Master of Science in Engineering - Specialization in Chemical Engineering (G906)
- Master of Science in Engineering - Specialization in Civil Engineering (G908)
- Master of Science in Engineering - Specialization in Electrical Engineering (G909)
- Master of Science in Engineering - Specialization in Mechanical Engineering (G910)
- Master of Science in Engineering - Specialization in Environmental Engineering (G911)
- Master of Science in Engineering - Specialization in Engineering Management (G912)
- Master of Engineering Management (G913)
- Certificate of Graduate Study in Project Management
- Certificate of Graduate Study in Construction Management

### **College Website**

[www.rowan.edu/engineering](http://www.rowan.edu/engineering)

## **Master of Science in Engineering (M.S.E.)**

### **Program Description**

The Master of Science in Engineering (MSE) 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.

**Specializations:**

- Chemical Engineering (G906)
- Civil Engineering (G908)
- Electrical Engineering (G909)
- Mechanical Engineering (G910)
- Environmental Engineering (G911)
- Engineering Management (G912)

**Admissions Requirements**

- Completed Graduate application
- Undergraduate GPA 2.5 minimum
- A bachelor of science in engineering from a program accredited by the Accreditation Board for Engineering and Technology (ABET) or with consultation from a faculty advisor, a bachelors degree in biology, chemistry, physics, mathematics, or other disciplines.

**Application Deadline:** Rolling Admissions

**Program Requirements**

Total semester hours required for program completion: 30 (6-9 semester hours can be Thesis Research/Engineering Project)

**Coordinator/Contact Information**

**Robi Polikar, Ph.D**  
856-256-5330  
polikar@rowan.edu

## **M.S.E. - Chemical Engineering Specialization**

**Program Description**

The Chemical Engineering specialization emphasizes project management skills and industrially relevant research that prepares students and working engineers for successful careers in high-tech fields.

**Admissions Requirements**

- Completed Graduate Application
- Undergraduate GPA 2.5 minimum
- A bachelor of science in engineering from a program accredited by the Accreditation Board for Engineering and Technology (ABET) or with consultation from a faculty advisor, a bachelors degree in biology, chemistry, physics, mathematics, or other disciplines.

**Application Deadline:** Rolling Admissions

**Program Requirements**

- Total semester hours required for program completion: 30 (6-9 semester hours can be Thesis Research/Engineering Project)

**Coursework**

**Required courses**

Engineering Applications of Analysis	<b>9.0 s.h.</b> 3.0
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	Engineering Application of Computers (or equivalent)	3.0
	Approved Business course	3.0
<b>Specialization courses</b>		<b>21 s.h.</b>
(including, but not limited to, the following list):		
CHE06.506	Procs Heat Transfer	3.0
CHE06.508	Membrane Process Tech	3.0
CHE06.510	Biochemical Engineering	3.0
CHE06.512	Safety Process Indust	3.0
CHE06.515	Advanced Reactor Design	3.0
CHE06.516	Advanced Separation Proc Tec	3.0
CHE06.518	Polymer Engineering	3.0
CHE06.520	Green Eng Design Chem Proc	3.0
CHE06.568	Electrochemical Engineering	3.0
CHE06.570	Air Pollution Control	3.0
CHE06.572	Biomedical Process Eng	3.0
CHE06.574	Advanced Particle Tech	3.0
CHE06.576	Bioseparation Processes	3.0
CHE06.577	Adv En Proc Analy & Exp Des	3.0
CHE06.579	Industrial Process Pathways	3.0
CHE06.580	Optimization of Eng Projects	3.0
CHE06.582	Food Engineering Systems	3.0
CHE06.583	Engineering Exercise Dynam	3.0
CHE06.584	Ctrl Release Theory, Tech/App	3.0
CHE06.585	Engineering Quality Control	3.0

### Program Website

[www.rowan.edu/colleges/engineering/graduate\\_program/](http://www.rowan.edu/colleges/engineering/graduate_program/)

### Coordinator/Contact Information

Mariano Savelski, Ph.D.  
856-256-5310  
savelski@rowan.edu

## M.S.E. - Civil Engineering Specialization

### Program Description

The Civil Engineering specialization allows students to develop an interdisciplinary focus through their coursework and thesis topic. Graduate students work with faculty with expertise in transportation, geotechnology, structures, water resources, and the environment. Interdisciplinary areas include mechanics and materials, and sustainability.

### Admissions Requirements

- Completed Graduate Application
- Undergraduate GPA 2.5 minimum
- A bachelor of science in engineering from a program accredited by the Accreditation Board for Engineering and Technology (ABET) or with consultation from a faculty advisor, a bachelor's degree in biology, chemistry, physics, mathematics, or other disciplines.

**Application Deadline:** Rolling Admissions

**Program Requirements**

- Total semester hours required for program completion: 30 (6-9 semester hour can be Thesis Research/Engineering Project)

**Coursework**

<b>Required courses</b>		<b>9.0 s.h.</b>
	Engineering Applications of Analysis	3.0
	Engineering Application of Computers (or equivalent)	3.0
	Approved Business course	3.0

<b>Specialization courses</b>		<b>21 s.h.</b>
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(including, but not limited to, the following list):

CEE08.504	Engineer Estimating	3.0
CEE08.507	Prestressed Concrete	3.0
CEE08.512	Adv Envir Treatment Process	3.0
CEE08.522	Site Remediation Eng	3.0
CEE08.531	Solid/Haz Water Mgt	3.0
CEE08.532	Pollutant Fate & Transport	3.0
CEE08.533	Integrated Solid Waste Mgmt	3.0
CEE08.543	Adv Water Resources	3.0
CEE08.544	Hydraulic Design	3.0
CEE08.545	Environment Fluid Mechanics	3.0
CEE08.552	Foundation Eng	3.0
CEE08.553	Earth Retaining Sys	3.0
CEE08.562	Adv Transportation	3.0
CEE08.564	Design Elements Transport Eng	3.0
CEE08.573	Adv Structural Analysis	3.0
CEE08.584	Prestressed Concrete	3.0
CEE08.585	Adv Reinforced Concrete	3.0
CEE08.586	Bridge Engineering	3.0

**Program Website**

[www.rowan.edu/colleges/engineering/graduate\\_program/](http://www.rowan.edu/colleges/engineering/graduate_program/)

**Coordinator/Contact Information**

Yusuf Mehta, Ph.D.  
856-256-5320  
mehta@rowan.edu

**M.S.E. - Electrical Engineering Specialization**

**Program Description**

The Electrical Engineering specialization gives students an opportunity to expand their skill sets in advanced topics of interest. Specialization areas include signal & image processing, computational intelligence and pattern recognition, power systems and renewable energy, discrete event systems, and virtual reality systems.

### Admissions Requirements

- Completed Graduate Application
- Undergraduate GPA 2.5 minimum
- A bachelor of science in engineering from a program accredited by the Accreditation Board for Engineering and Technology (ABET) or with consultation from a faculty advisor, a Bachelors degree in biology, chemistry, physics, mathematics, or other disciplines.
- **Application Deadline:** Rolling Admissions
- **Program Requirements**
- Total semester hours required for program completion: 30 (6-9 semester hours can be Thesis Research/Engineering Project)

- **Required courses** **9.0 s.h.**

	Engineering Applications of Analysis	3.0
	Engineering Application of Computers (or equivalent)	3.0
	Approved Business course	3.0

### Specialization courses

(including, but not limited to, the following list):

		<b>21 s.h.</b>
ECE09.504	St Elec & Comp Engineering	3.0
ECE09.551	Digital Signal Processing	3.0
ECE09.552	Digital Image Processing	3.0
ECE09.553	Digital Speech Processing	3.0
ECE09.554	Theory/Eng App of Wavelets	3.0
ECE09.555	Adv Topics in Pattern Recog	3.0
ECE09.556	Embedded System Design	3.0
ECE09.560	Artificial Neural Networks	3.0
ECE09.571	Instrumentation	3.0

### Program Website

[www.rowan.edu/colleges/engineering/graduate\\_program/](http://www.rowan.edu/colleges/engineering/graduate_program/)

### Coordinator/Contact Information

**Robi Polikar, Ph.D.**  
 856-256-5330  
[polikar@rowan.edu](mailto:polikar@rowan.edu)

## M.S.E. - Mechanical Engineering Specialization

### Program Description

The Mechanical Engineering specialization allows a student to develop a high level of competence in engineering design, and a deep understanding of current technology. The interdisciplinary nature of the program provides students with an opportunity to work on exciting research areas at the leading edge of technology.

### Admissions Requirements

- Completed Graduate Application
- Undergraduate GPA 2.5 minimum

- A bachelor of science in engineering from a program accredited by the Accreditation Board for Engineering and Technology (ABET) or with consultation from a faculty advisor, a bachelors degree in biology, chemistry, physics, mathematics, or other disciplines.

**Application Deadline:** Rolling Admissions

**Program Requirements**

<b>Required courses</b>		<b>9.0 s.h.</b>
	Engineering Applications of Analysis	3.0
	Engineering Application of Computers (or equivalent)	3.0
	Approved Business course	3.0

**Specialization Courses** **21 s.h.**

(including, but not limited to, the following list):

ME10.505	Sp Tp Mech Eng	3.0
ME10.506	Computational Materials Sci	3.0
ME10.509	Mech Anlys Mach Des	3.0
ME10.511	Combustion	3.0
ME10.512	Rocket Propulsion	3.0
ME10.514	Energy Conversion Systems	3.0
ME10.521	Gas Dynamics	3.0
ME10.522	Comp Fluid Dynamics	3.0
ME10.541	Advanced Mechanism Design	3.0
ME10.542	Adv Mechatronics	3.0
ME10.544	Automotive Engineering	3.0
ME10.550	Adv Solid Mechanics	3.0
ME10.551	Mechanics Continuous Media	3.0
ME10.552	Structural Acoustics	3.0
ME10.553	Advanced Dynamics	3.0
ME10.554	Elastic Stability of Struct	3.0
ME10.570	Principles in Biomechanics	3.0
ME10.575	Fund Crash Safety Engineering	3.0

(6-9 semester hours can be Thesis Research/Engineering Project)

**Program Website**

[www.rowan.edu/colleges/engineering/graduate\\_program/](http://www.rowan.edu/colleges/engineering/graduate_program/)

**Coordinator/Contact Information**

Krishan Bhatia, Ph.D.  
856-256-5340  
bhatia@rowan.edu

**M.S.E. - Environmental Engineering Specialization**

**Program Description**

The Environmental Engineering specialization equips students with the tools necessary to solve contemporary environmental problems. The program will provide students with the knowledge to design facilities and manage projects that provide clean water, treat municipal and industrial wastewaters, restore contaminated sites to good health, ensure clean air, and evaluate the environmental

impact of large projects.

### Admissions Requirements

- Completed Graduate Application
- Undergraduate GPA 2.5 minimum
- A bachelor of science in engineering from a program accredited by the Accreditation Board for Engineering and Technology (ABET) or with consultation from a faculty advisor, a bachelors degree in biology, chemistry, physics, mathematics, or other disciplines.

**Application Deadline:** Rolling Admissions

### Program Requirements

- Total semester hours required for program completion: 30 (6-9 semester hours can be Thesis Research/Engineering Project)

### Required courses

	<b>9.0 s.h.</b>
Engineering Applications of Analysis	3.0
Engineering Application of Computers (or equivalent)	3.0
Approved Business course	3.0

### Specialization courses

**21 s.h.**

(including, but not limited to, the following list):

CEE08.504	Engineer Estimating	3.0
CEE08.507	Prestressed Concrete	3.0
CEE08.512	Adv Envir Treatment Process	3.0
CEE08.522	Site Remediation Eng	3.0
CEE08.531	Solid/Haz Water Mgt	3.0
CEE08.532	Pollutant Fate & Transport	3.0
CEE08.533	Integrated Solid Waste Mgmt	3.0
CEE08.543	Adv Water Resources	3.0
CEE08.544	Hydraulic Design	3.0
CEE08.545	Environment Fluid Mechanics	3.0
CEE08.552	Foundation Engn	3.0
CEE08.553	Earth Retaining Sys	3.0
CEE08.562	Adv Transportation	3.0
CEE08.563	Adv Pavement Analy & Eval	3.0
CEE08.564	Design Elements Transport Eng	3.0
CEE08.573	Adv Struct Analysis	3.0
CEE08.584	Prestressed Concrete	3.0
CEE08.585	Adv Reinforced Concrete	3.0

### Program Website

[www.rowan.edu/colleges/engineering/graduate\\_program/](http://www.rowan.edu/colleges/engineering/graduate_program/)

### Coordinator/Contact Information

Yusuf Mehta, Ph.D.  
856-256-5327  
mehta@rowan.edu

## M.S.E. - Engineering Management Specialization

### Program Description

The Engineering Management Specialization effectively prepares students for management positions in the engineering profession by providing them with the necessary skill sets, knowledge, and training to succeed as engineering managers. The courses that can be taken as part of this program include courses that are taught in-class and courses that are taught entirely online.

### Admissions Requirements

- Completed Graduate Application
- Undergraduate GPA 2.5 minimum
- A bachelor of science in engineering from a program accredited by the Accreditation Board for Engineering and Technology (ABET) or with consultation from a faculty advisor, a bachelor's degree in biology, chemistry, physics, mathematics, or other disciplines.

**Application Deadline:** Rolling Admissions

### Program Requirements

- Total semester hours required for program completion: 30 (6-9 semester hours can be Thesis Research/Engineering Project)

### Required Courses

**12 s.h.**

Two graduate mathematics/computer applications courses from the following list:

ENGR01.511	Engineering Optimization
MATH03.511	Operations Research I
MATH03.512	Operations Research II
MATH01.515	Engineering Applications of Analysis

Two graduate business courses from the following list:

ENT06.506	Corp. Entrepreneurship and New Venture Development
MGT06.510	Strategic Engineering Management

Specialization courses (include, but not limited to, the following list):

ENGR01.501	Special Topics in Engineering
ENGR01.511	Engineering Optimization
ENGR01.599	Masters Thesis Research
CHE06.577	Advanced Engineering Process Analysis and Experimental Design
CHE06.512	Safety in the Process Industries
CHE06.580	Optimization of Engineering Projects
CHE06.581	Advanced Process Analysis
CEE08.503	Special Topics in Civil Engineering
CEE08.504	Engineering Estimating
CEE08.522	Site Remediation Engineering
CEE08.531	Solid and Hazardous Waste Management
CEE08.563	Advanced Transportation Planning, Demand, and Data Analysis



### **Program Website**

[www.rowan.edu/colleges/engineering/graduate\\_program/](http://www.rowan.edu/colleges/engineering/graduate_program/)

### **Coordinator/Contact Information**

Ralph Alan Dusseau, Ph.D., P.E.

856-256-5322

dusseau@rowan.edu

## **Master of Engineering Management**

### **Program Description**

The goal of the Master of Engineering Management (MEM) Program at Rowan University is to effectively prepare graduate students for management positions in the engineering profession by providing them with the necessary skill sets, knowledge, and training to succeed as engineering managers. The MEM Program requires 30 semester hours of coursework. The MEM courses are offered by the College of Engineering and the College of Business. The core MEM courses, the MEM specialization courses, and most MEM elective courses are taught through the College of Professional and Continuing Education. These MEM courses are taught as 8-week online courses. The remaining MEM elective courses are regular engineering graduate courses that are taught on campus. The MEM courses are taught with two courses each during the fall, spring, and summer semesters (two back-to-back 8-week courses per semester) for a total of six courses per year.

### **Specializations (if applicable):**

- Project Management Specialization
- Construction Management Specialization

### **Admissions Requirements:**

- Completed Graduate Application
- Students must possess a bachelors degree in engineering, engineering technology, biology, chemistry, physics, mathematics, or computer science, or a bachelors degree in education with appropriate coursework in science and mathematics.
- Applicants with other bachelors degrees will be considered for admission to the MEM Program on a case-by-case basis.
- The undergraduate prerequisites for admission to the MEM Program are Chemistry I, Physics I, Calculus I, and Statistics I or the equivalent.
- The GRE Exam is not required for admission to the MEM Program.

**Application Deadline:** Rolling admission

### **Program Requirements:**

- Total semester hours required for program completion: 30

**Thesis Requirement:** none

### **Coursework**

#### **I. Required Common Core**

**9 s.h.**

Students are required to complete the following 9 semester hour (s.h.) credits:

MGT06.677	Management Skills for Engineers	3.0 s.h.
EM01.501	Engineering Economics	3.0 s.h.

MGT06.666	Managing Engineering Teams	3.0 s.h.
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## II. Specializations in Engineering Management 12 s.h. Credits

Students will be required to complete a minimum of 12 s.h. credits in one of two areas of specialization:

Project Management Specialization:

MIS02.526	Project Management for Engineers	3.0 s.h.
EM01.512	Quality in Engineering Management	3.0 s.h.
EM01.513	Engineering Decisions	3.0 s.h.
EM01.511	Strategic Risk Management	3.0 s.h.

Construction Management Specialization:

CEE08.504	Engineering Estimating	3.0 s.h.
EM01.521	Construction Management	3.0 s.h.
EM01.522	Construction Scheduling	3.0 s.h.
EM01.523	Cost Engineering	3.0 s.h.

## III. Electives in Engineering Management 9 s.h. Credits

Students will take electives totaling 9 SH credits chosen from existing engineering courses or new courses that will be added to the Engineering Management Program:

Existing Engineering Courses:

ENGR01.501	Special Topics in Engineering	3.0 s.h.
ENGR01.511	Engineering Optimization	3.0 s.h.
CHE06.502	Special Topics in Chemical Engineering	3.0 s.h.
CHE06.577	Advanced Engineering Process Analysis and Experimental Design	3.0 s.h.
CHE06.512	Safety in the Process Industries	3.0 s.h.
CHE06.580	Optimization of Engineering Projects	3.0 s.h.
CHE06.581	Advanced Process Analysis	3.0 s.h.
CEE08.503	Special Topics in Civil Engineering	3.0 s.h.
CEE08.504	Engineering Estimating	3.0 s.h.
CEE08.522	Site Remediation Engineering	3.0 s.h.
CEE08.531	Solid and Hazardous Waste Management	3.0 s.h.
CEE08.533	Integrated Solid Waste Management	3.0 s.h.
ECE09.504	Special Topics in Electrical Engineering	3.0 s.h.
ME10.505	Special Topics in Mechanical Engineering	3.0 s.h.

New Courses

EM01.541	Engineering Law and Ethics	3.0 s.h.
MIS02.526	Project Management for Engineers	3.0 s.h.
EM01.512	Quality in Engineering Management	3.0 s.h.
EM01.513	Engineering Decisions	3.0 s.h.
EM01.511	Strategic Risk Management	3.0 s.h.
EM01.521	Construction Management	3.0 s.h.
EM01.522	Construction Scheduling	3.0 s.h.
EM01.523	Cost Engineering	3.0 s.h.
EM01.531	Engineering Inventions and Creative Design	3.0 s.h.

## Coordinator/Contact Information

Ralph Alan Dusseau, Ph.D., P.E.

856-256-5322

dusseau@rowan.edu

## Certificate of Graduate Study in Project Management

### Program Description

The Certificate of Graduate Study in Project Management effectively prepares students for project management positions in the engineering profession by providing them with the necessary skill sets, knowledge, and training to succeed as engineering managers. The courses that can be taken as part of this program include courses that are taught in-class and courses that are taught entirely online.

### Admission Requirements:

- Completed Graduate application
- Undergraduate GPA 2.5 minimum
- A bachelor of science in engineering, engineering technology, biology, chemistry, physics, from an ABET accredited program or with consultation from a faculty advisor, a bachelor's degree in biology, chemistry, physics, mathematics or other disciplines.

**Application deadline:** Rolling admissions

### Program Requirements

- Total semester hours required for program completion: 12 s.h.

### Coursework

#### Required courses

		<b>12.0 s.h.</b>
EM01.512	Quality in Engineering Management	3.0
EM01.511	Strategic Risk Management	3.0
	Strategic Decision Making	3.0
	Project Management	3.0

### Additional Information

This program is currently available only online through the College of Professional & Continuing Education. For additional information, please visit [www.rowan.edu/cpce](http://www.rowan.edu/cpce).

### Program Website

[www.rowan.edu/colleges/engineering/graduate\\_program/](http://www.rowan.edu/colleges/engineering/graduate_program/)

### Coordinator/Contact Information

Ralph Alan Dusseau, Ph.D., P.E.

856-256-5322

[dusseau@rowan.edu](mailto:dusseau@rowan.edu)

## Certificate of Graduate Study in Construction Management

### Program Description

The Certificate of Graduate Study in Construction Management effectively prepares students for construction management positions in the engineering profession by providing them with the necessary skill sets, knowledge, and training to succeed as engineering managers. The courses that can be taken as part of this program include courses that are taught in-class and courses that are taught entirely online.

### Admission Requirements:

- Completed Graduate application

- Undergraduate GPA 2.5 minimum
- A bachelor of science in engineering, engineering technology, biology, chemistry, physics, from an ABET accredited program or with consultation from a faculty advisor, a bachelor's degree in biology, chemistry, physics, mathematics or other disciplines.

**Application deadline:** Rolling admissions

**Program Requirements**

- Total semester hours required for program completion: 12 s.h.

**Coursework**

Required Courses		12.0 s.h.
<a href="#">CEE08.504</a>	Engineering Estimating	3.0
<a href="#">EM01.521</a>	Construction Management	3.0
<a href="#">EM01.522</a>	Construction Scheduling	3.0
<a href="#">EM01.523</a>	Cost Engineering	3.0

**Additional Information**

This program is currently available only online through the College of Professional & Continuing Education. For additional information, please visit [www.rowan.edu/cpce](http://www.rowan.edu/cpce).

**Program Website**

[www.rowan.edu/colleges/engineering/graduate\\_program/](http://www.rowan.edu/colleges/engineering/graduate_program/)

**Coordinator/Contact Information**

Ralph Alan Dusseau, Ph.D., P.E.  
856-256-5322  
[dusseau@rowan.edu](mailto:dusseau@rowan.edu)

## College of Fine and Performing Arts

**Jon Robert Cart, Dean**  
**856-256-4551**  
**cart@rowan.edu**

As a discipline with a long and significant tradition, the arts are uniquely positioned to impart the qualities of discernment, creativity, excellence, and dedication to one's craft that contribute to the development of the whole person. The College of Fine and Performing Arts fosters a dynamic and demanding, intellectual and creative environment that produces transcendent experiences of discovery and expression. The College nurtures learning and creative communities through rigorous degree programs that educate artists of the future and provides classroom and applied arts experiences for non-majors and enriching programs for the public.

Graduate study in the arts at Rowan University centers on rigorous hands-on experiences to prepare the advancing artist for the professional world of the arts and/or advanced professional degrees in the arts. Our programs are accredited by the Art-National Association of Schools of Art and Design, the Music-National Association of Schools of Music, and the Theatre-National Association of Schools of Theatre.

### **Program Offered**

- Master of Music (G005)

### **College Website**

[www.rowan.edu/graduateschool/graduate\\_programs/programs/fine.htm](http://www.rowan.edu/graduateschool/graduate_programs/programs/fine.htm)

## **Master of Music**

### **Program Description**

The Master of Music program provides intensive experiences in performance, conducting, or composition as well as courses geared to enhance the student's knowledge and understanding of the literature of their area of specialization, and a greater understanding of music in general. The M.M. program at Rowan University is for the aspiring musician who wishes to make a career as a performer, conductor, or composer or will continue their studies at the Ph.D. or DMA level. Graduates of Rowan's Master of Music program have gone on to major doctoral programs, orchestral careers, arts leadership positions, and careers as college professors and public school teachers.

### **Admission Requirements**

- Completed Graduate Application
- Earned undergraduate degree in music (in lieu of the B.M. or B.A. in Music the student may satisfy the Graduate Committee in Music through audition and interview, that he/she possesses a strong enough musical background to complete the program.
- Live Audition (tapes or CDs are acceptable for those students who live more than 300 miles from Rowan)
- Composition students must present a portfolio of their works
- Music Theory and Music History placement exams the first week of classes (not admission bearing)

### Specializations

- Master of Music - Specialization in Composition
- Master of Music - Specialization in Guitar
- Master of Music - Specialization in Jazz Studies
- Master of Music - Specialization in Orchestral Instruments
- Master of Music - Specialization in Keyboard: Piano/Organ
- Master of Music - Specialization in Voice
- Master of Music - Specialization in Orchestral Conducting
- Master of Music - Specialization in Vocal Conducting
- Master of Music - Specialization in Wind Conducting

**Application Deadline:** Rolling Admission

### Program Requirements - Specialization in Composition

- Total semester hours required for program completion: 31-38
- Culminating Experience (Recital): a recital jury is only required under special circumstances
- Composers-Recital of composed works, lecture recital, and/or thesis (e.g. theoretical analysis of composed work(s) and documentation of public performances of the work(s))
- Oral Comprehensive Exam
- Thesis Requirement: none

### Coursework

#### Required Courses

MUS04	Graduate Applied Music	12.0-16.0
MUS04.560	Form and Analysis	3.0
MUSG05.547	Music and the Related Arts	3.0
MUS04.570	20TH Century Literature and Techniques	3.0
SMED32.502	Teaching Music Theory	3.0
	Applied Major Instrument (secondary lessons)	
	Ensemble experience (suitable to the specialization)	

#### Elective Courses Select by Specialization:

MUSG06.546	Development & Interpretation of Symphonic Literature	3.0
MUSG06.509	String Instrument Literature	3.0
MUSG06.503	Jazz History	3.0
MUS04.541	Jazz Piano (non-keyboard students)	1.0
MUSG06.542	Opera Literature	3.0
MUSG06.506	Art Song Literature	3.0
MUS04.551	Piano Accompanying	1.0
MUSG06.511	Survey of 20th Century Band Literature	3.0
MUS04.545	Choral Literature	3.0
MUS04.565	Seminar in Band Conducting	3.0
MUS04.557	Advanced Orchestration	2.0
MUS04.561	Score Reading I	1.0
MUS04.562	Score Reading II	1.0

(also acceptable are interdisciplinary courses or foreign language courses)

**Note:** Specialization requirements may only be modified by permission of the program coordinator.

### Additional Information

The Master of Music degree at Rowan University is designed to be 4 semesters long but can be completed in 2 or 3 semesters depending on number of hours taken/semester and the course rotation schedule.

### Program Website

[www.rowan.edu/music/programs/composition.cfm](http://www.rowan.edu/music/programs/composition.cfm)

### Coordinator/Contact Information

**Bryan K. Appleby-Wineberg, D.M.A.**

856.256.4500 x3526

applebywineberg@rowan.edu

### Program Requirements - Specialization in Guitar

- Total semester hours required for program completion: 31-38
- Culminating Experience (Recital): a recital jury is only required under special circumstances
- Oral Comprehensive Exam
- Thesis Requirement: none

### Coursework

#### Required Courses

MUS04	Graduate Applied Music	12.0-16.0
<a href="#">MUS04.560</a>	Form and Analysis	3.0
<a href="#">MUSG05.547</a>	Music and the Related Arts	3.0
<a href="#">MUS04.536</a>	Chamber Music I	1.0
<a href="#">MUS04.537</a>	Chamber Music II	1.0
<a href="#">MUSG06.505</a>	History and Literature of Guitar and Lute	3.0
<a href="#">SMED32.506</a>	Guitar Pedagogy	3.0
	Ensemble experience (suitable to the specialization)	

#### Elective Courses Select by Specialization:

<a href="#">MUSG06.546</a>	Development & Interpretation of Symphonic Literature	3.0
<a href="#">MUSG06.509</a>	String Instrument Literature	3.0
<a href="#">MUSG06.542</a>	Opera Literature	3.0
<a href="#">MUSG06.503</a>	Jazz History	3.0
<a href="#">MUSG06.506</a>	Art Song Literature	3.0
<a href="#">MUSG06.511</a>	Survey of 20th Century Band Literature	3.0
<a href="#">MUS04.565</a>	Seminar in Band Conducting	3.0
<a href="#">MUS04.551</a>	Guitar Accompanying	

(also acceptable are interdisciplinary courses or foreign language courses)

**Note:** Specialization requirements may only be modified by permission of the program coordinator.

### Additional Information

The Master of Music degree at Rowan University is designed to be 4 semesters long but can be completed in 2 or 3 semesters depending on number of hours taken/semester and the course rotation schedule.

### Program Website

[www.rowan.edu/colleges/fpa/music/](http://www.rowan.edu/colleges/fpa/music/)

**Coordinator/Contact Information**

**Bryan K. Appleby-Wineberg, D.M.A.**  
 856.256.4500 x3526  
 applebywineberg@rowan.edu

**Program Requirements - Specialization in Jazz Studies**

- Total semester hours required for program completion: 31-38
- Culminating Experience (Recital): a recital jury is only required under special circumstances
- Oral Comprehensive Exam
- Thesis Requirement: none

**Coursework**

**Required Courses**

MUS04	Graduate Applied Music	12.0-16.0
<a href="#">MUS04.540</a>	Jazz Arranging and Composition	3.0
<a href="#">MUSG05.547</a>	Music and the Related Arts	3.0
<a href="#">MUSG06.503</a>	Jazz History	3.0
<a href="#">MUS04.575</a>	CD Project	2.0
<a href="#">MUS04.541</a>	Jazz Piano (non-keyboard students)	1.0
	Ensemble experience (suitable to the specialization)	

**Elective Courses** Select by Specialization:

<a href="#">MUSG06.546</a>	Development & Interpretation of Symphonic Literature	3.0
<a href="#">MUSG06.509</a>	String Instrument Literature	3.0
<a href="#">MUSG06.542</a>	Opera Literature	3.0
<a href="#">MUSG06.503</a>	Jazz History	3.0
<a href="#">MUSG06.506</a>	Art Song Literature	3.0
<a href="#">MUSG06.511</a>	Survey of 20th Century Band Literature	3.0
<a href="#">MUS04.565</a>	Seminar in Band Conducting	3.0
<a href="#">MUS04.557</a>	Advanced Orchestration	2.0
<a href="#">MUS04.536</a>	Chamber Music I	1.0
<a href="#">MUS04.537</a>	Chamber Music II	1.0
<a href="#">MUSG06.509</a>	String Instrument Literature	3.0

(also acceptable are interdisciplinary courses or foreign language courses)

**Note:** Specialization requirements may only be modified by permission of the program coordinator.

**Additional Information**

The Master of Music degree at Rowan University is designed to be 4 semesters long but can be completed in 2 or 3 semesters depending on number of hours taken/semester and the course rotation schedule.

**Program Website**

[www.rowan.edu/colleges/fpa/music/](http://www.rowan.edu/colleges/fpa/music/)

**Coordinator/Contact Information**

**Bryan K. Appleby-Wineberg, D.M.A.**  
 856.256.4500 x3526  
 applebywineberg@rowan.edu



### Program Requirements - Specialization in Orchestral Instruments

- Total semester hours required for program completion: 31-38
- Culminating Experience (Recital): a recital jury is only required under special circumstances
- Oral Comprehensive Exam
- Thesis Requirement: none

### Coursework

#### Required Courses

MUS04	Graduate Applied Music	12.0-16.0
<a href="#">MUS04.560</a>	Form and Analysis	3.0
<a href="#">MUSG05.547</a>	Music and the Related Arts	3.0
<a href="#">MUS04.536</a>	Chamber Music I	1.0
<a href="#">MUS04.537</a>	Chamber Music II	1.0
	Ensemble experience (suitable to the specialization)	

#### Elective Courses Select by Specialization:

<a href="#">MUSG06.546</a>	Development & Interpretation of Symphonic Literature	3.0
<a href="#">MUSG06.509</a>	String Instrument Literature	3.0
<a href="#">MUSG06.542</a>	Opera Literature	3.0
<a href="#">MUSG06.503</a>	Jazz History	3.0
<a href="#">MUSG06.506</a>	Art Song Literature	3.0
<a href="#">MUSG06.511</a>	Survey of 20 Century Band Literature	3.0
<a href="#">MUS04.565</a>	Seminar in Band Conducting	3.0

(also acceptable are interdisciplinary courses or foreign language courses)

*Note:* Specialization requirements may only be modified by permission of the program coordinator.

### Additional Information

The Master of Music degree at Rowan University is designed to be 4 semesters long but can be completed in 2 or 3 semesters depending on number of hours taken/semester and the course rotation schedule.

### Program Website

[www.rowan.edu/colleges/fpa/music/](http://www.rowan.edu/colleges/fpa/music/)

### Coordinator/Contact Information

**Bryan K. Appleby-Wineberg, D.M.A.**  
 856.256.4500 x3526  
[applebywineberg@rowan.edu](mailto:applebywineberg@rowan.edu)

### Program Requirements - Specialization in Keyboard: Piano/Organ

- Total semester hours required for program completion: 31-38
- Culminating Experience (Recital): a recital jury is only required under special circumstances
- Oral Comprehensive Exam
- Thesis Requirement: none

### Coursework

#### Required Courses

MUS04	Graduate Applied Music	12.0-16.0
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MUS04.560	Form and Analysis	3.0
MUSG05.547	Music and the Related Arts	3.0
MUSG06.510	Keyboard Literature	3.0
MUS04.551	Piano Accompanying	1.0
	Piano Pedagogy	
	Ensemble experience (Accompanying/Chamber Music)	

**Elective Courses** Select by Specialization:

MUSG06.546	Development & Interpretation of Symphonic Literature	3.0
MUSG06.509	String Instrument Literature	3.0
MUSG06.542	Opera Literature	3.0
MUSG06.503	Jazz History	3.0
MUSG06.506	Art Song Literature	3.0
MUS04.536	Chamber Music I	1.0
MUS04.537	Chamber Music II	1.0
SMED32.502	Teaching Music Theory	3.0
MUS04.541	Jazz Piano	1.0
MUS04.545	Choral Literature	3.0

(also acceptable are interdisciplinary courses or foreign language courses)

*Note:* Specialization requirements may only be modified by permission of the program coordinator.

**Additional Information**

The Master of Music degree at Rowan University is designed to be 4 semesters long but can be completed in 2 or 3 semesters depending on number of hours taken/semester and the course rotation schedule.

**Program Website**

[www.rowan.edu/colleges/fpa/music/](http://www.rowan.edu/colleges/fpa/music/)

**Coordinator/Contact Information**

Bryan K. Appleby-Wineberg, D.M.A.

856.256.4500 x3526

applebywineberg@rowan.edu

**Program Requirements - Specialization in Orchestral Conducting**

- Total semester hours required for program completion: 31-38
- Culminating Experience Conducting Recital: a recital jury is only required under special circumstances
- Oral Comprehensive Exam
- Thesis Requirement: none

**Coursework**

**Required Courses**

MUS04	Graduate Applied Music	12.0-16.0
MUS04.560	Form and Analysis	3.0
MUSG05.547	Music and the Related Arts	3.0
MUS04.557	Advanced Orchestration	2.0
MUS04.561	Score Reading I	1.0
MUS04.562	Score Reading II	1.0

Ensemble experience (suitable to the specialization)

**Elective Courses** Select by Specialization:

MUSG06.546	Development & Interpretation of Symphonic Literature	3.0
MUSG06.509	String Instrument Literature	3.0
MUSG06.542	Opera Literature	3.0
MUSG06.503	Jazz History	3.0
MUSG06.506	Art Song Literature	3.0
MUS04.551	Piano Accompanying	1.0
MUS04.545	Choral Literature	3.0

(also acceptable are interdisciplinary courses or foreign language courses)

*Note:* Specialization requirements may only be modified by permission of the program coordinator.

**Additional Information**

The Master of Music degree at Rowan University is designed to be 4 semesters long but can be completed in 2 or 3 semesters depending on number of hours taken/semester and the course rotation schedule.

**Program Website**

[www.rowan.edu/colleges/fpa/music/](http://www.rowan.edu/colleges/fpa/music/)

**Coordinator/Contact Information**

**Bryan K. Appleby-Wineberg, D.M.A.**

856.256.4500 x3526

applebywineberg@rowan.edu

**Program Requirements - Specialization in Vocal Conducting**

- Total semester hours required for program completion: 31-38
- Culminating Experience Conducting Recital: a recital jury is only required under special circumstances
- Oral Comprehensive Exam
- Thesis Requirement: none

**Coursework**

**Required Courses**

MUS04	Graduate Applied Music	12.0-16.0
MUSG05.547	Music and the Related Arts	3.0
MUS04.557	Advanced Orchestration	2.0
MUS04.561	Score Reading I	1.0
MUS04.562	Score Reading II	1.0
MUS04.545	Choral Literature	
	Ensemble experience (suitable to the specialization)	

**Elective Courses** Select by Specialization:

MUSG06.546	Development & Interpretation of Symphonic Literature	3.0
MUSG06.509	String Instrument Literature	3.0
MUSG06.542	Opera Literature	3.0
MUSG06.503	Jazz History	3.0
MUSG06.506	Art Song Literature	3.0

MUS04.551	Piano Accompanying	1.0
	Italian, German or French	3.0
MUS04.545	Choral Literature	3.0

(also acceptable are interdisciplinary courses or foreign language courses)

*Note:* Specialization requirements may only be modified by permission of the program coordinator.

**Additional Information**

The Master of Music degree at Rowan University is designed to be 4 semesters long but can be completed in 2 or 3 semesters depending on number of hours taken/semester and the course rotation schedule.

**Program Website**

[www.rowan.edu/colleges/fpa/music/](http://www.rowan.edu/colleges/fpa/music/)

**Coordinator/Contact Information**

**Bryan K. Appleby-Wineberg, D.M.A.**  
**856.256.4500 x3526**  
**applebywineberg@rowan.edu**

### **Program Requirements - Specialization in Wind Conducting**

- Total semester hours required for program completion: 31-38
- Culminating Experience Conducting Recital: a recital jury is only required under special circumstances
- Oral Comprehensive Exam
- Thesis Requirement: none

#### **Coursework**

##### **Required Courses**

MUS04	Graduate Applied Music	12.0-16.0
<a href="#">MUS04.560</a>	Form and Analysis	3.0
<a href="#">MUSG05.547</a>	Music and the Related Arts	3.0
<a href="#">MUS04.557</a>	Advanced Orchestration	2.0
<a href="#">MUS04.561</a>	Score Reading I	1.0
<a href="#">MUS04.562</a>	Score Reading II	1.0
<a href="#">MUSG06.511</a>	Survey of 20th Century Band Literature	3.0
<a href="#">MUS04.565</a>	Seminar in Band Conducting Ensemble experience (suitable to the specialization)	

##### **Elective Courses** Select by Specialization:

<a href="#">MUSG06.546</a>	Development & Interpretation of Symphonic Literature	3.0
<a href="#">MUSG06.542</a>	Opera Literature	3.0
<a href="#">MUSG06.503</a>	Jazz History	3.0
<a href="#">MUSG06.506</a>	Art Song Literature	3.0

(also acceptable are interdisciplinary courses or foreign language courses)

*Note:* Specialization requirements may only be modified by permission of the program coordinator.

#### **Additional Information**

The Master of Music degree at Rowan University is designed to be 4 semesters long but can be completed in 2 or 3 semesters depending on number of hours taken/semester and the course rotation schedule.

#### **Program Website**

[www.rowan.edu/colleges/fpa/music/](http://www.rowan.edu/colleges/fpa/music/)

#### **Coordinator/Contact Information**

**Bryan K. Appleby-Wineberg, D.M.A.**  
856.256.4500 x3526  
applebywineberg@rowan.edu

## College of Liberal Arts and Sciences

**Parviz Ansari, Ph.D., Dean**

856-256-4850

ansari@rowan.edu

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The College of Liberal Arts and Sciences 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 liberal arts and sciences theories and traditions with applications for the workplace in the new millennium.

### **Programs Offered**

- Master of Arts in Applied Behavior Analysis (G222)
- Master of Arts in Clinical Mental Health Counseling (G209)
- Master of Arts in Criminal Justice (G105)
- Master of Arts in Mathematics (G701)
- Certificate of Advanced Graduate Study in Mental Health Counseling (G211)
- Certificate of Graduate Study in Applied Behavior Analysis (G122)
- Certificate of Graduate Study in Global History (G121)
- Certificate of Graduate Study in History (G120)
- Certificate of Graduate Study in Middle Grades Science Education (G123)
- Certificate of Graduate Study in Middle School Mathematics Education (G119)
- Certificate of Graduate Study in Secondary Mathematics (G118)

### **College Website**

[www.rowan.edu/colleges/las](http://www.rowan.edu/colleges/las)

## **Master of Arts in Applied Behavior Analysis**

### **Program Description**

Applied behavior analysis (ABA) is one of the most effective and frequently utilized treatment approaches for individuals with special needs including developmental disabilities and autism. ABA involves the use of well-established and empirically supported principles to assess and treat problem behavior, and to facilitate skill acquisition. In southern NJ, over 20,000 children in special education programs have been classified with conditions that behavior analysts regularly treat; however, there are not enough qualified behavior analysts in the region to meet these needs.

The Behavior Analyst Certification Board, Inc.® (BACB) certifies two levels of behavior analysts: Board Certified Assistant Behavior Analysts (BCABA) for individuals with a Bachelors degree and Board Certified Behavior Analysts (BCBA) for individuals with a Masters degree. The Master of Arts in Applied Behavior Analysis meets both the degree and coursework requirements for certification as a BCBA. The certification also requires 1500 hours of BCBA-supervised practice in ABA.

For more information, see the BACB standards at [www.bacb.com](http://www.bacb.com). Several states have passed legislation mandating or encouraging individuals to have recognized training and expertise in ABA. Although certification has not yet been legislated in New Jersey, there is a growing demand for individuals appropriately trained in this area of expertise.

### Admissions Requirements

- Completed Graduate Application
- Minimum of a bachelor's degree in a related field (psychology, education, special education, or criminal justice)
- Minimum 3.0 undergraduate GPA
- Achieving a grade of B- or better in at least one undergraduate psychology class
- For applicants who have taken graduate courses, a minimum 3.0 GPA in graduate studies
- Official copies of undergraduate and graduate transcripts
- Two letters of recommendation. We encourage the applicant to get at least one letter by a referent who can speak to the applicant's academic abilities, such as a former professor, and at least one letter by a referent who can speak to the applicant's professional abilities and behavior, such as a supervisor.
- Writing sample
- Personal Interview

**Application deadline:** Rolling Admissions

### Program Requirements

The Master's degree program is structured into five broad domains for a total of 36 credits:

#### I. Fundamental Behavioral Analytic Knowledge and Skill (9 credits)

PSY02.500	Basic Principles of Behavior	3.0
PSY02.610	Applied Behavior Analysis	3.0
PSY02.620	Behavioral Assessment and Functional Analysis	3.0

#### II. Understanding Populations & Contexts (9 credits)

SPED08.555	Education and Psychology of Exceptional Learners	3.0
PSY03.624	Psychopathology of Childhood and Adolescence	3.0
SELN10.590	Introduction to Autism Spectrum Disorders	3.0

#### III. Experience (6 credits)

PSY01.660	Practicum in Applied Behavior Analysis	3-6
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#### IV. Research (6 credits)

PSY02.510	Research Methods in Behavior Analysis	3.0
PSY02.660	Research Project in ABA	3.0

V. Elective (6 credits): Determined collaboratively by each student and Advisor of the MA in ABA Program

SELN10.586	Emotional and Behavioral Support Strategies	3.0
SELN10.582	Communication Skills for Students with Disabilities	3.0
SPED08.545	Home/School/Community Collaboration	3.0
SELN10.581	Teaching Strategies for Managing Behavior of Students with Disabilities	3.0

**Thesis Requirement:** none

### **Coordinator/Contact Information**

MaryLouise E. Kerwin, Ph.D., BCBA-D  
856-256-4500 x3521  
kerwin@rowan.edu

### **Program Website**

[www.rowan.edu/masteraba](http://www.rowan.edu/masteraba)

## **Master of Arts in Clinical Mental Health Counseling**

### **Program Description**

The focus of the 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. While many of our students apply for certification as a Licensed Professional Counselor (LPC) in New Jersey and certification by the National Board of Certified Counselors (NBCC), several others pursue doctoral level training upon graduation.

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 developing strong skills in differential diagnosis, conceptualization, development of treatment plans and the use of evidence based practices.

Students are also required to complete at least 600 hours of supervised practice in a mental health setting. The masters program consists of 60 credit hours of graduate work required for the LPC and NBCC certification.

### **Admission Requirements**

- Completed Graduate Application
- Undergraduate GPA 3.0 minimum
- A curriculum vitae or resume
- 12 semester hours of undergraduate psychology courses, including one course in abnormal psychology, and one course in statistics and research methods
- Work experience within a mental health setting (e.g., field experience, volunteer work, employment)

**Application deadline:** Applications will be reviewed beginning February 15th and continue until all program slots have been filled

### **Program Requirements**

Total graduate semester hours required for program completion: 60 s.h.

### **Required Courses**

**57 s.h.**



PSY09.595	Introduction to Counseling: Development of Basic Skills	3.0
PSY01.623	Psychopathology I: Diagnosis and Epidemiology	3.0
PSY01.624	Psychopathology II: Conceptualization and Etiology	3.0
PSY01.564	Counseling Theory and Techniques I	3.0
PSY01.566	Counseling Theory and Techniques II	3.0
PSY06.626	Assessment II: Assessment of Career/Vocational Interests, Treatments, & Programs	3.0
PSY06.625	Assessment I: Psychometrics, Evaluation, & Treatment Planning	3.0
PSY01.572	Research Methods and Statistics in Counseling Psychology I: Basics	3.0
PSY01.574	Research Methods and Statistics in Counseling Psychology II: Applied	3.0
PSY01.612	Group Counseling	3.0
PSY05.610	Social and Cultural Diversity	3.0
PSY09.560	Lifespan Development	3.0
PSY10.610	Psychopharmacology and Biological Bases of Behavior	3.0
PSY01.620	Legal, Ethical & Professional Issues in Counseling Psychology	3.0
PSY01.615	Professional Pro-seminar	1.0
PSY01.650	Practicum in Counseling	8.0
PSY01.685	Masters Thesis I	3.0
PSY01.687	Masters Thesis II	3.0
<b>Elective course</b>		<b>3 s.h.</b>
	Approved psychology elective	3.0

**Thesis Requirement: Yes**

**Program Website**

[www.rowan.edu/colleges/las/departments/psychology/maCounseling/](http://www.rowan.edu/colleges/las/departments/psychology/maCounseling/)

**Coordinator/Contact Information**

D.J. Angelone, Ph.D.  
 856-256-4500 x3780  
 angeloned@rowan.edu

**Master of Arts in Criminal Justice**

**Program Description**

The master's degree 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. The program focuses 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 as well as diverse academic interests. While working closely with experienced faculty, students will earn credits for conducting original research and presenting a thesis. This degree 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.

### Admission Requirements

- Completed Graduate Application
- The Admissions Committee will determine on a case by case basis whether an introductory class in criminal justice, research methods or statistics will be required if these were not completed at the undergraduate level.

**Application deadline:** Rolling admissions

### Program Requirements

- Total graduate semester hours required for program completion: 36 s.h.

<b>Required Courses</b>		<b>24 s.h.</b>
CJ09.510	Contemporary Issues in Criminal Justice	3.0
CJ09.518	Contemporary Developments in Theory	3.0
CJ09.511	Research Methods I	3.0
CJ09.512	Research Methods II	3.0
CJ09.515	Law and Society	3.0
CJ09.517	Criminal Justice Policy Analysis	3.0
CJ09.601	Master's Thesis in Criminal Justice I	3.0
CJ09.602	Master's Thesis in Criminal Justice II	3.0
<b>Elective courses</b>		<b>12 s.h.</b>
	Approved graduate electives	12.0

**Thesis Requirement:** Yes

### Program Website

[www.rowan.edu/colleges/lasold/lawandjustice/programs/graduate/index.html](http://www.rowan.edu/colleges/lasold/lawandjustice/programs/graduate/index.html)

### Coordinator/Contact Information

Wanda D. Foglia, J.D., Ph.D.  
856-256-4399  
foglia@rowan.edu

## Master of Arts in Mathematics

### Program Description

The Master of Arts in Mathematics program will provide an opportunity for individuals to pursue advanced study in mathematics and to develop skills that can lead to success in today's technologically oriented society. Whether the goal involves applying mathematics to solve problems in business and 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 has been of special interest to high school teachers seeking to enrich their knowledge of mathematics. The graduate course work will fill gaps and broaden and extend the undergraduate mathematics background of each student. There is sufficient flexibility in the program for students to tailor the curriculum to meet their needs.

### Admission Requirements

- Completed Graduate Application
- The applicant for the Master of Arts in Mathematics will usually be expected to have completed a minimum of 30 semester hours of mathematics at the undergraduate level, including courses in calculus through vector calculus, linear algebra, and abstract algebra.

**Application deadline:** Rolling admissions

### Program Requirements

- Total graduate semester hours required for program completion: 30 s.h.

### Coursework

<b>Required Core Courses</b>		<b>15 s.h.</b>
MATH01.502	Linear Algebra and Matrix Theory	3.0
MATH01.510	Real Analysis I	3.0
MATH01.512	Complex Analysis I	3.0
MATH01.524	Abstract Algebra I	3.0
MATH01.533	Mathematics Seminar	3.0
<b>Restricted Electives</b>		<b>3 s.h.</b>
At least one course from the following:		
MATH01.511	Real Analysis II	3.0
MATH01.513	Complex Analysis II	3.0
MATH01.527	Abstract Algebra II	3.0
<b>Additional Elective Courses</b>		<b>12 s.h.</b>

- Approved graduate electives

**Thesis Requirement:** none

### Additional Information

Rowan University undergraduates majoring in the Bachelor of Science in Mathematics program can apply to the accelerated B.S./M.A. program allowing them to earn both the B.S. and M.A. degrees in five years.

### Program Website

[www.rowan.edu/colleges/las/departments/math/acad/MathRowanUniversityMasterArtsMath.htm](http://www.rowan.edu/colleges/las/departments/math/acad/MathRowanUniversityMasterArtsMath.htm)

### Coordinator/Contact Information

Abdul Hassen, Ph.D.  
856-256 4500 x3888  
hassen@rowan.edu

## Certificate of Advanced Graduate Study (CAGS) in Mental Health Counseling

### Program Description

The Certificate of Advanced Graduate Studies (CAGS) in Mental Health Counseling is intended for individuals who have already completed a Masters degree in counseling psychology and need additional graduate course work in order to have the sixty credits required for state licensure (LPC) and national certification. 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 profession that will allow students to improve their practical knowledge and skills.

### **Admissions Requirements**

- Completed Graduate Application
- A master's degree from an accredited institution in counseling psychology or a closely related field
- A curriculum vitae or resume

**Application deadline:** Rolling admissions

### **Program Requirements**

- Total number of semester hours needed to complete graduate program requirements: 18 s.h.
- Students matriculated in the program can enroll in as many of the following classes as needed to obtain the sixty credits required for state licensure (LPC) and national certification.

### **Coursework**

#### **Required Courses**

		<b>18 s.h.</b>
PSY03.624	Psychopathology of Children and Adolescents	3.0
PSY01.630	Family Systems and Family Therapy	3.0
PSY03.620	Cognitive Behavioral Treatment Strategies	3.0
PSY05.651	Interpersonal Theory and Psychotherapy	3.0
PSY10.610	Psychopharmacology	3.0
PSY05.652	Advanced Seminar in Clinical Practice	3.0

**Thesis Requirement:** none

#### **Program Website**

[www.rowan.edu/colleges/las/departments/psychology/maCounseling/certificate/](http://www.rowan.edu/colleges/las/departments/psychology/maCounseling/certificate/)

#### **Coordinator/Contact Information**

**D.J. Angelone, Ph.D.**  
856-256-4500 x3780  
angeloned@rowan.edu

## **Certificate of Graduate Study (COGS) in Applied Behavior Analysis**

### **Program Description**

Applied behavior analysis is one of the most frequently utilized treatment approaches for children and adults with special needs, such as autism and developmental disabilities. The scope of practice of behavior analysts is the use of behavioral principles for the assessment and treatment of problems. As such, behavior analysts do not conduct psychotherapy.

The Behavior Analyst Certification Board, Inc. certifies two levels of behavior analysts: Board Certified Associate Behavior Analysts (BCABA) for individuals with a bachelor's degree and Board Certified Behavior Analysts (BCBA) for individuals with a master's degree. The Behavior Analyst Certification Board, Inc. has approved the Certificate of Graduate Study (COGS) in Applied Behavior Analysis as meeting the coursework requirements for certification as a Board Certified Behavior Analyst (BCBA). In addition to post-baccalaureate coursework, the BCBA certification requires a master's degree (field

of study is not specified) and 1500 hours of supervised practice.

For more information please see Behavior Analyst Board Certification, Inc. standards at [www.bacb.com](http://www.bacb.com). Many states have passed legislation either mandating or encouraging individuals to have recognized training and expertise in applied behavior analysis. In New Jersey, the certification has not yet been legislated; however, consumers and agencies are seeking appropriately trained individuals.

### **Admission Requirements**

- Completed Graduate Application
- Minimum of a bachelor's degree in a related field (psychology, education, special education, or criminal justice). Students with a bachelor's degree should be enrolled in a Masters program or plan to start a Masters program prior to completing the coursework for the COGS in ABA.
- Minimum 3.0 undergraduate GPA
- For applicants who have taken graduate courses, a minimum 3.0 GPA in graduate studies
- Official copies of undergraduate and graduate transcripts
- Two letters of recommendation. We encourage the applicant to get at least one letter by a referent who can speak to the applicant's academic abilities, such as a former professor, and at least one letter by a referent who can speak to the applicant's professional abilities and behavior, such as a supervisor.

**Application deadline:** Rolling admissions

### **Program Requirements**

- Total graduate semester hours required for program completion: 15 s.h.
- The Behavior Analysis Certification Board, Inc. has approved the following course sequence for eligibility to take the Board Certified Behavior Analysis Examination. Applicants will have to meet additional requirements to qualify for the BCBA certification.

### **Required Courses**

PSY02.500	Basic Principles of Behavior	3.0
PSY02.510	Research Methods in Behavior Analysis	3.0
PSY02.610	Applied Behavior Analysis	3.0
PSY02.620	Behavioral Assessment & Functional Analysis	3.0
PSY01.660	Practicum in ABA	3.0

Thesis Requirement: none

### **Program Website**

[www.rowan.edu/colleges/las/departments/psychology/cogsaba/](http://www.rowan.edu/colleges/las/departments/psychology/cogsaba/)

### **Coordinator/Contact Information**

MaryLouise E. Kerwin, Ph.D., BCBA  
856-256-4500 x3521  
[kerwin@rowan.edu](mailto:kerwin@rowan.edu)

## **Certificate of Graduate Study (COGS) in Global History**

### **Program Description**

The COGS 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.

### **Admission Requirements**

- Completed Graduate Application

**Application deadline:** Rolling admissions

### **Program Requirements**

- Total graduate semester hours required for program completion: 15 s.h.
- 12 s.h. must be in areas outside of the United States

### **Course Listing**

**9 s.h.**

specific subject areas will vary

HIST05.501	Colloquium in American History	3.0
HIST05.504	Colloquium in European History	3.0
HIST05.505	Colloquium in Global History	3.0

### **Program Website**

[www.rowan.edu/colleges/las\\_new/departments/history/](http://www.rowan.edu/colleges/las_new/departments/history/)

### **Coordinator/Contact Information**

Scott Morschauser, Ph.D.  
856-256-4500 x3993  
morschauser@rowan.edu

## **Certificate of Graduate Study (COGS) in History**

### **Program Description**

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.

### **Admission Requirements**

- Completed Graduate Application

**Application deadline:** Rolling admissions

### **Program Requirements**

- Total graduate semester hours required for program completion: 15 s.h.

### **Course Listing**

**9 s.h.**

HIST05.501	Colloquium in American History	3.0
HIST05.504	Colloquium in European History	3.0
HIST05.505	Colloquium in Global History	3.0

### **Program Website**

[www.rowan.edu/colleges/las\\_new/departments/history/](http://www.rowan.edu/colleges/las_new/departments/history/)

### **Coordinator/Contact Information**

Scott Morschauser, Ph.D.  
856-256-4500 x3993

morschauer@rowan.edu

## Certificate of Graduate Study (COGS) in Middle Grades Science Education

### Program Description

Many teachers of middle grades science presently have little formal training in science, having taken only two or perhaps three science and/or science education courses as undergraduates. Federal and state regulations (NCLB) now require that such teachers in grades 6-8 have a minimum of 15 semester hours of science or science education courses. Thus, middle grades science teachers need to know more science than traditionally has been taught in teacher education programs. Likewise, since they are being asked (urged) to teach in different ways, teachers also need to experience learning science in those ways themselves.

Research on teaching and learning suggests that carefully designed instruction, for example, active engagement of students in collaborative investigations leading to conjectures and hypotheses rather than passive lecturing, will produce deeper learning and better retention of science. Moreover, the growing role of data analysis, probability, and discrete mathematics in science, engineering, computing, and business have broadened the content that must be taught.

New hand held calculator and computer technologies with powerful computational and symbolic capabilities are transforming the classroom. This program will provide this needed content in an active learning environment to provide teachers a deeper understanding of the content and methodologies in the areas of physics, chemistry, biology, space science and earth science. There will be an emphasis on learning science by doing science.

### Admission Requirements

- Completed Graduate application
- Certification to teach at elementary or middle school level

**Application deadline:** Rolling admissions

### Program Requirements

- Total graduate semester hours required for program completion: 15 s.h.

### Coursework

Required Courses		15 s.h.
PHSC01.532	Physical Science Activities for Teachers	3.0
ASTR17.520	Selected Topics in Earth Science	3.0
ASTR11.520	Selected Topics in Space Science	3.0
CHEM05.501	Principles of Chemistry	3.0
BIOL01.501	Processes and Principles in Life Science	3.0

### Additional Information

Courses are generally offered as summer-only. Due to the active-learning, hands-on experimental nature of the courses, most of the work is done in a classroom setting requiring the standard 45 hours of in-class work to complete each course. The classes make extensive use of graphing calculators and computer-based exercises as well as on-line activities between class meetings.

### **Program Website**

[www.rowan.edu/graduateschool/graduate\\_programs/programs/liberal.htm](http://www.rowan.edu/graduateschool/graduate_programs/programs/liberal.htm)

### **Coordinator/Contact Information**

**Maria Tahamont, Ph.D.**

856-256-4500 x3584

tahamont@rowan.edu

## **Certificate of Graduate Study (COGS) in Middle School Mathematics Education**

### **Program Description**

This program prepares elementary-certified teachers for the middle school subject area specialization in mathematics. It provides an opportunity for middle grades teachers to deepen and extend their understanding of mathematics in the areas of number sense and numerical operations, geometry and measurement, algebra, data analysis, probability, and discrete mathematics. At the same time, they continue their professional development by exploring issues and innovations in mathematics education. Emphasis is placed on developing a thorough understanding of the content of state and national standards.

The program is appropriate for teachers currently teaching mathematics in grades 4-8 who wish to enhance their skills and knowledge, those certified in secondary mathematics who wish to gain a deeper understanding of middle school mathematics, and those responsible for the development and articulation of curriculum and instruction in mathematics in the middle grades.

### **Admission Requirements**

- Completed Graduate Application
- K-5 or K-8 Elementary Certification

**Application deadline:** Rolling admissions

### **Program Requirements**

- Total graduate semester hours required for program completion: 18 s.h.

### **Coursework**

#### **Required courses**

<a href="#">MATH03.600</a>	Topics in Elementary Mathematics	3.0
<a href="#">MATH01.528</a>	Math Modeling/Algebraic Reasoning	3.0
<a href="#">ELEM02.552</a>	Research on Children's Math Learning	3.0
<a href="#">SMED33.502</a>	Processes and Principles of School Mathematics	3.0

#### **Elective Courses**

- Approved graduate electives, 6.0

### **Program Website**

[www.rowan.edu/open/mcsiip/msmecogs.html](http://www.rowan.edu/open/mcsiip/msmecogs.html)



### **Coordinator/Contact Information**

Janet Caldwell, Ph.D.  
856-256-4500 x3871  
caldwell@rowan.edu

## **Certificate of Graduate Study (COGS) in Secondary Mathematics**

### **Program Description**

The Certificate of Graduate Study (COGS) in Secondary Mathematics will provide an opportunity for mathematics teachers to pursue advanced study in both mathematics and mathematics education. Goals will include: increasing teachers' mathematics content knowledge, increasing teachers' pedagogical knowledge, and increasing teachers' familiarity with current and historical research in mathematics education.

### **Admission Requirements**

- Completed Graduate Application
- The applicant for the COGS in secondary mathematics will be expected to have completed a minimum of 30 semester hours at the undergraduate level of mathematics (or have a secondary mathematics teaching certificate)

**Application deadline:** Rolling admissions

### **Program Requirements**

- Total graduate semester hours required for program completion: 15 s.h.

### **Coursework**

#### **Required courses**

<a href="#">MATH01.561</a>	School Mathematics from an Advanced Standpoint	3.0	<b>9 s.h.</b>
<a href="#">SMED33.502</a>	Processes and Principles of School Mathematics	3.0	
<a href="#">SMED33.600</a>	Problems in Math Ed I	3.0	

#### **Restricted electives**

Select two courses from:

<a href="#">MATH01.500</a>	Foundations of Mathematics	3.0	<b>6 s.h.</b>
<a href="#">MATH01.522</a>	History of Mathematics	3.0	
<a href="#">MATH03.550</a>	Topics in Discrete Mathematics	3.0	
<a href="#">MATH01.503</a>	Number Theory	3.0	
<a href="#">MATH01.502</a>	Linear Algebra & Matrix Theory	3.0	

### **Program Website**

[www.rowan.edu/open/mcsiip/smecogs.html](http://www.rowan.edu/open/mcsiip/smecogs.html)

### **Coordinator/Contact Information**

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856-256-4500 x3876  
Milou@rowan.edu

## Course Descriptions

**ACC 02501: AUDITING THEORY 3 S.H.**

**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.

**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.**

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.

**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.

**ANTH 02558: CULT ANTHROPOLOGY 3 S.H.**

**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.

**ARHS 03520: ART SINCE 1945 3 S.H.**

**ARHS 03525: Graduate Problems in Art History 3 S.H.**

Problems in Art History at the graduate level is an intensive investigation of a specific movement, style, medium, or major artist. Content will change each time the course is offered. Check the Schedule of Classes to determine specific area of study.

**ART 02523: Graduate Painting I 3 S.H.**

Advanced graduate work in concepts, techniques and media appropriate to contemporary painting and individual expression.

Course Descriptions

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<b>ART 02524:</b>	<b>Graduate Painting II</b>	<b>3 S.H.</b>
Further advanced work in painting.		
<b>ART 02527:</b>	<b>Graduate Sculpture II</b>	<b>3 S.H.</b>
Further advanced work in sculpture.		
<b>ART 02530:</b>	<b>CERAMICS II</b>	<b>3 S.H.</b>
<b>ART 02532:</b>	<b>Graduate Printmaking I</b>	<b>3 S.H.</b>
Advanced graduate work in concepts, techniques and media appropriate to contemporary printmaking and individual expression. Permission of the instructor is strongly advised.		
<b>ART 02533:</b>	<b>Graduate Printmaking II</b>	<b>3 S.H.</b>
Further advanced work in printmaking.		
<b>ART 02535:</b>	<b>Advanced Graduate Problems in Art</b>	<b>2 to 6 S.H.</b>
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.		
<b>ART 02560:</b>	<b>INDEP STUDY-ART</b>	<b>3 to 6 S.H.</b>
<b>ART 02600:</b>	<b>INDEP STUDY ART</b>	<b>6 S.H.</b>
<b>ART 09520:</b>	<b>Jewelry I</b>	<b>3 S.H.</b>
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.		
<b>ART 09521:</b>	<b>Jewelry II</b>	<b>3 S.H.</b>
Further advanced work. This course may not be offered annually.		
<b>ART 09522:</b>	<b>JEWELRY III</b>	<b>3 S.H.</b>
<b>ART 09524:</b>	<b>Ceramics I</b>	<b>3 S.H.</b>
An intensified exploration of throwing, glazing, and firing processes as related to aesthetic consideration in contemporary art forms and past cultures. Permission of the instructor is strongly advised.		
<b>ART 09525:</b>	<b>Ceramics II</b>	<b>3 S.H.</b>
Further advanced work. This course may not be offered annually.		
<b>ART 09529:</b>	<b>CERAMICS I</b>	<b>3 S.H.</b>
<b>ART 09530:</b>	<b>CERAMICS II</b>	<b>3 S.H.</b>
<b>ART 09531:</b>	<b>ART PRESCHOOL CHILD</b>	<b>3 S.H.</b>

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Course Descriptions

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<b>ART 09532:</b>	<b>PRINTMAKING I</b>	<b>3 S.H.</b>
<b>ART 09533:</b>	<b>PRINTMAKING II</b>	<b>3 S.H.</b>
<b>ART 09535:</b>	<b>CRAFT-PUPPETRY TCH</b>	<b>3 S.H.</b>
<b>ART 11540:</b>	<b>Still and Video Photography for Educators</b>	<b>3 S.H.</b>
<p>This course is designed to help the in-service educator accomplish two goals: (1) to plan and produce still and video photography, both analog and digital, so that they can (2) teach their students to take and make still and video photography part of their ongoing learning activities. In addition, the graduate student will learn a variety of ways to integrate the language arts and the visual arts as a means of self expression while actively creating still and video photography, an electronic portfolio which can be used as an end of year assessment, and for both the graduate student and their students.</p>		
<b>ASTR 11520:</b>	<b>SEL TOP IN SPACE SCIENCE</b>	<b>3 S.H.</b>
<b>ASTR 17520:</b>	<b>Selected Topics in Earth and Space Science</b>	<b>3 S.H.</b>
<p>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.</p>		
<b>BIOL 01599:</b>	<b>INDEP STUDY</b>	<b>1 to 3 S.H.</b>
<b>BIOL 05580:</b>	<b>PLANT PHYSIOLOGY</b>	<b>3 S.H.</b>
<b>BIOL 07512:</b>	<b>SEASHORE ORNITHOLOGY</b>	<b>1 to 4 S.H.</b>
<b>BIOL 10587:</b>	<b>Animal Physiology</b>	<b>3 S.H.</b>
<p>A study of physiological control systems and vegetative activities of animals in various invertebrate and vertebrate phyla relative to cellular regulation, osmo-regulation, ionic regulation, regulation of pH, blood flow regulation, nutritive requirements, feeding, digestion, absorption, body fluids, respiration, and intermediary metabolism. This course may not be offered annually.</p>		
<b>BIOL 14540:</b>	<b>Introduction to Biochemistry I</b>	<b>3 S.H.</b>
<p>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.</p>		
<b>BIOL 18501:</b>	<b>MARSH/DUNE VEGETATN</b>	<b>3 S.H.</b>
<b>BIOL 18502:</b>	<b>AQUACULTURE</b>	<b>1 S.H.</b>
<b>BIOL 18510:</b>	<b>MARINE INVERT ZOO</b>	<b>1 S.H.</b>

Course Descriptions

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**BIOL 18526: FIELD METH MARINE SCI 1 S.H.**

**BIOL 18536: MARINE MOLLUSCS 1 S.H.**

**BIOL 19550: INDEPENDENT STUDY 1 to 99 S.H.**

**BIOL 19587: MARINE FOSSILS NJ COAST 1 S.H.**

**BIOL 20525: Environmental Toxicology 4 S.H.**

This course covers topics related to the fate and impact of pollutants in the environment. This course deals with laws and regulations regarding pollutant discharges, the kinds of chemical pollutants, the transport and distribution of such chemicals into the environment, and their effect on population and communities as well as individual organisms. The acute and chronic effect of these pollutants, the principles of environmental monitoring and assessment, and special examples and case studies will be analyzed. Hands-on research will be carried out in toxicological testing during the semester.

**BIOL 20574: TIDAL MARSH ECOLOGY 4 S.H.**

**BIOL 20595: Pine Barrens Ecology 3 S.H.**

Field-laboratory experience investigating the unique Pine Barrens of New Jersey to understand what it is, how it became what it is and conditions which tend to maintain it.

**BIOL 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.

**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.

**BLED 40503: ADV TCHG ESL 3 S.H.**

**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 the issues involved in the schooling of students of first languages other than English. Emphasis is placed on awareness of and sensitivity to the diverse values and behaviors of students learning English as a second language, and on classroom strategies to accommodate this diversity in a positive manner. Usually taught in Spring semester.

**BLED 40512: Linguistics for Teaching Second Languages 3 S.H.**

This course deals with the components and characteristics of language as they impact on the acquisition of both first and second languages. A study of the language systems of English will provide a basis for the study of second language acquisition, and comparisons and contrasts will be made with English and representative languages.

**BLED 40513: Extending Foreign Language Instruction K-12 3 S.H.**

This course is designed for the certified foreign language teacher, as well as for candidates for conditional certification in foreign (world) language education as approved by the New Jersey State Department of Education. Emphasis is placed on contemporary methods and materials appropriate to age/grade levels in the elementary, middle, and secondary school, in keeping with state and national standards. A variety of activities integrating language and culture will be demonstrated and practiced. Topics include the use of thematic units, alternative assessment techniques, and the application of technology. Participants are encouraged to make practical application to their own teaching situations.

**BLED 40515: Language, Culture and Communication 3 S.H.**

This course examines the ways in which people communicate both verbally and non-verbally in social interaction. The interdependence of language and culture in communication is a major focus. Emphasis is placed on the importance of successful intercultural communication, with practical application to second language teachers.

**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: Teaching ESL: Process and Practice 3 S.H.**

This course concentrates on the development and presentation of language lessons which demonstrate the relationship of theory and practice. Classroom observations and experiences constitute an important part of this course. Micro teaching and peer coaching will be utilized to provide a basis for reflective teaching. This course is offered in alternate years to BLED40.522.

**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.

**BLED 40522: Integrating Language and Content in the ESL/Bilingual Education Classroom 3 S.H.**

This course examines current programs and available materials in bilingual education appropriate to a range of content areas and grade levels. Field observations and experiences constitute an important part of the course. Micro teaching and peer coaching will be utilized to provide a basis for reflective teaching. This course is offered in alternate years to BLED40.520.

## Course Descriptions

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**BLED 40600: INDEP STUDY BILINGUAL ED 3 S.H.**

**BUS 01505: MBA SUPERVISED INTERNSHIP 1 S.H.**

**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.

**CEE 08503: Special Topics Civil Engineering 3 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.

**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 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: Environmental Fluid Mechanics 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 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 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.

**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 08573: Advanced Structural Analysis 3 S.H.**

The course deals with the matrix method of structural analysis. The topics covered include structural members, member joints, member end conditions, local and global coordinate systems, coordinate transformation, member structural matrices, global structural matrices, condensation of global structural matrices, static structural analysis, and dynamic structural analysis. The course will include appropriate computer applications.

**CEE 08574: ADV STRUCTURAL MECHANICS 3 S.H.**

**CEE 08575: Advanced Fatigue and Fracture 3 S.H.**

This course presents the theory and analytical techniques to design structural components for cyclic loading. Topics include linear elastic fracture mechanics; S-N fatigue; fatigue crack growth; and algorithms for simulating three-dimensional crack propagation. The course culminates with an original research project, resulting in both oral and written reports.



**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.

**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 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 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 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.

**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 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 06583: Engineering Exercise Dynamics 4 S.H.**

This course introduces students to chemical engineering fundamentals applied to physiologic systems, primarily during exercise. The basic biochemistry and physiology required for understanding these systems is presented. Basic principles of mass transfer, heat transfer, fluid flow, thermodynamics, and chemical reaction are used to analyze the human metabolic system, respiratory system, cardiovascular system, and thermal system. The interrelationships of these systems will be investigated, and their dynamic response to exercise will be studied. Laboratory experiments will be conducted throughout the course. This course is jointly taught with the Department of Health and Exercise Science.

**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.

**CHEM 05501: PRINC OF CHEMISTRY 3 S.H.**

**CHEM 05530: Special Topics in Chemistry 3 S.H.**

Selected topics in individual areas of chemistry (analytical, organic, inorganic or physical). Consent of the instructor is necessary. Prerequisites are determined by the nature of the topic. The requirements of this course include a graduate laboratory project and/or research paper. This course may not be offered annually.

**CHEM 05544: INTRO TO RESEARCH 3 S.H.**

**CHEM 05550: Advanced Seminar 1 S.H.**

Oral presentation of scientific studies and data at the graduate level. The talks are accompanied by 35 mm slides prepared by the student. Attendance at South Jersey American Chemical Society meetings is required. This course may not be offered annually.

**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 07558: Advanced Biochemistry 4 S.H.**

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 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: ADV ORGANIC PREPARTN 3 S.H.**

**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.

**CHEM 07575: POLYMER CHEMISTRY** **3 S.H.**

**CHEM 07580: Synthesis of Polymers** **4 S.H.**

This course provides an in-depth study of the procedures, techniques and theoretical aspects of polymer synthesis. Reaction mechanisms including kinetic and thermodynamic considerations will be studied. The topic of polymer synthesis will be examined from raw material sources through product usage. The laboratory experiments will provide exposure to representative procedures and techniques.

**CHEM 07582: Characterization of Polymers** **4 S.H.**

This course provides an in-depth study of the procedures, techniques and theoretical aspects of polymer characterization. Major topics include molecular weight determinations, polymer solutions, viscoelasticity and bulk properties. The laboratory experiments will provide exposure to representative procedures and techniques with emphasis on molecular weight determination and thermal methods.

**CHEM 09510: Instrumental Analysis** **4 S.H.**

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.

**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.



**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.

**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 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 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.

**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.

**CMS 01546: CONTEMPORARY RHETORIC 3 S.H.**

**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.

**COUN 26500: CAREER SEMINAR 3 S.H.**

**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.

**COUN 26503: PRIN OF GUIDANCE 3 S.H.**

**COUN 26505: PUPIL GUIDANCE 3 S.H.**

**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 26510: Group Counseling in Educational Settings Lab 1 S.H.**

This course will provide students with formative experiences in teambuilding and human relations skills. Students will participate in team-building activities, focusing on interpersonal and intra-personal processes; will have opportunities to give and receive feedback; will have opportunities to experience and process positive interdependence and group processing; and have opportunities to apply group leadership skills.

**COUN 26515: GUID-COUN/ECON CHG 3 S.H.**

**COUN 26520: Design and Administration of Developmental Counseling Programs 3 S.H.**

This course provides a thorough exploration of developmental counseling programs, and of how such programs are integral to school educational programs collectively. Topics include: design and administration, consultation skills, comprehensive program components, developmental curriculum, program evaluation, and counselor orientation.

**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.**

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 26528: Individual Counseling Procedures Laboratory 1 S.H.**

This course will provide students with formative experiences in basic (micro-counseling) skills. Students will receive supervision in conducting simulated peer-counseling that relates to the theory-based Individual Counseling Procedures Course, to be taken concurrently. Students will learn how to use various basic interviewing skills according to different scenarios and client populations. Students will have opportunities to give and receive feedback based on individual interviewing skills performances.

**COUN 26529: Practicum Lab/Counseling in Educational Settings 1 S.H.**

This course will provide students with information and the technical resources to further develop interviewing skills, as well as to produce educational materials such as videos and audiotapes of simulated counseling sessions to be used in class discussion.

**COUN 26530: SEMINAR CAREER DEV 3 S.H.**

**COUN 26543: INST & AGENCIES 3 S.H.**

**COUN 26548: INST & AGENCIES 3 S.H.**

**COUN 26573: COUN/VOC GUI/REH SER 3 S.H.**

**COUN 26580: GUID/COUN CAREER ED 3 S.H.**

**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 26583: OCC & ED INFO-VOC GD 3 S.H.**

**COUN 26584: OCC/ED INFO-VOC GUID 4 S.H.**

**COUN 26596: ORG/ADM GUIDANCE PRO 3 S.H.**

**COUN 26597: Relations of the Public School with the Institutions and Agencies of New Jersey 3 S.H.**

Particular attention is directed to the problem of caring for atypical children, the work of prevention of delinquency and maladjustment and the methods which may be used by administrators, supervisors, and teachers to avail themselves of greater assistance with problems surrounding the teaching of atypical students.

**COUN 26600: SEMINAR I SPS 4 S.H.**

**COUN 26601: Internship in Counseling in Educational Settings 1 to 4 S.H.**

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 the semester at their selected Internship Site. 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.

**COUN 26602: INTERNSHIP II COUNSEL/SPS 4 S.H.**

**COUN 26603: Research I in Counseling in Educational Settings 3 S.H.**

Research I in Counseling/Student Personnel Services will provide opportunities for students to conduct focused inquiry and to generate knowledge around those factors germane to the field of counseling. During Research I 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 26604: Research II in Counseling in Educational Settings 3 S.H.**

Research II in Counseling/Student Personnel Services is the second phase of students' action-research thesis project. During Research II the focus will be in areas such as collecting and analyzing data, program evaluation, developing rationale for proposed program changes, and preparing the final thesis and publication of research information.

**COUN 26605: Advanced Workshop/Counseling in Educational Settings 1 S.H.**

The course is designed to develop awareness, knowledge and skills pertaining the unique challenges and opportunities when counseling diverse and exceptional clients. Students will learn the appropriate background factors impacting diverse clients as well as develop the necessary sensitivity to be effective with this client population.

**CS 01561: Advanced Computer Environments 3 S.H.**

This is an advanced applications course in which the student will learn the effective use of various computer applications for organizing and managing their professional duties, including functioning in computer-supported collaborative work groups. Some specific skills that will be covered include the use of desktop publishing to prepare business plans, advertising copy, etc., the creation and maintenance of World Wide Web pages, the use of presentation packages, the integration of graphics into traditional or multimedia documents, and the use of Internet and commercial data bases (including analysis of data using spreadsheet tools). Students will report on emerging trends in hardware and software and will review issues relating to data security and ethics.

**CS 04505: ADVANCED WEB PROGRAMMING 3 S.H.**

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 04520: PGMMING LANG/THEORY 3 S.H.**

**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: DESGN/IMPLEMENT OPER SYSTEMS 3 S.H.**

**CS 04564: Compiler Design Theory 3 S.H.**

The 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, 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 06505: Wireless Networks and Systems 3 S.H.**

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.**

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 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.



**CS 07510: Mathematical Foundations of Computer Science 3 S.H.**

This course provides a graduate-level introduction to the theoretical foundations of computer science, including finite automata, context-free grammars, Turing machines, and formal logic.

**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: ADV SOFTWARE ENGINEERING 3 S.H.**

**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 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.

**CS 07545: Advanced Robotics 3 S.H.**

This course provides an introduction to the fundamentals of robotics. Students study robot manipulators and mobile robots, robot sensors and robot cognition. Students will also gain experience programming in small groups, and programming in a domain where noisy and imprecise data is commonplace. Familiarity with matrix multiplication and inversion is expected for this course.

**CS 07550: Concepts in Artificial Intelligence 3 S.H.**

This course surveys methods for programming computers to behave intelligently. Topics include knowledge representation methods, heuristic search, theorem-proving, puzzle-solving, game-playing, natural language processing, and expert systems.

**CS 07555: Natural Language Processing 3 S.H.**

This course presents methods for allowing computers to understand and generate sentences in human languages (such as English) and prepares the student to do research in natural language processing. Topics include syntax, semantics, pragmatics, and knowledge representation.

**CS 07556: Machine Learning 3 S.H.**

This course presents problems and solution methods for machine learning in a variety of contexts, such as inductive inference, statistical learning, explanation-based learning, genetic algorithms, and neural networks, and prepares the student to do research in this field.

**CS 07560: Computer Graphics 3 S.H.**

Students will study the use and implementation of graphics packages. Techniques and algorithms for implementing graphics systems will be covered. They include drawing of 2-D primitives; 2- and 3-D transformation and viewing; representing curves and surfaces; hidden line and surface removal; illumination and shading; and animation. Programming projects on writing graphics applications and implementing graphics algorithms will be assigned.

**CS 07565: Computer Vision 3 S.H.**

This course examines the fundamental issues in computer vision and major approaches that address them. The topics include image formation, image filtering and transforms, image features, mathematical morphology, segmentation, and object recognition. More advanced topics such as camera calibration, stereopsis, dynamic vision, and computer architectures for vision will also be covered. Independent projects on these advanced topics will be required.

**CS 07570: INFORMATION VISUALIZATION 3 S.H.**

**CS 07575: Advanced TCP/IP and Internet Protocols and Technologies 3 S.H.**

This is an advanced computer networking course that will expand students knowledge received in the Data Communications and Networking course. This course will examine operation of the TCP/IP protocol as well as design and architecture of the Internet. This course will cover such topics as: medium access protocols, address resolution protocols, Internet routing, Internet Protocol (IP), Quality of Service, Transport Protocol, and congestion control mechanisms. This course will also include selected topics on network security and network management. Students will prepare and deliver technical presentations on state-of-the-art research topics in the Internet.

**CS 07580: COMPUTER ANIMATION 3 S.H.**

**CS 07595: Advanced Topics in Computer Science 1 to 4 S.H.**

This course enables the faculty to offer courses in advanced topics which are not offered on a regular basis. Prerequisites will vary according to the specific topic being studied.

**CURR 29501: ART EDUC CURRICULUM 3 S.H.**

**CURR 29502: WRITING ACTY WKSHP 3 S.H.**

**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.

Course Descriptions

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<b>CURR 29505:</b>	<b>METH/MAT ENG SEC LAN</b>	<b>3 S.H.</b>
<b>CURR 29506:</b>	<b>TCHG IN PUBLIC SCH</b>	<b>3 S.H.</b>
<b>CURR 29507:</b>	<b>HUMANISTIC EDUCATION</b>	<b>3 S.H.</b>
<b>CURR 29510:</b>	<b>TCHG STRATEGIES SEC</b>	<b>3 S.H.</b>
<b>CURR 29512:</b>	<b>APPLIC OF TCHG MODEL</b>	<b>3 S.H.</b>
<b>CURR 29515:</b>	<b>Introduction to Planning and Teaching</b>	<b>4 S.H.</b>
	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.	
<b>CURR 29520:</b>	<b>PRACT CURR/INST</b>	<b>3 S.H.</b>
<b>CURR 29521:</b>	<b>PRACT CURR &amp; INST</b>	<b>6 S.H.</b>
<b>CURR 29524:</b>	<b>CONCEPT SEC DY CURR</b>	<b>3 S.H.</b>
<b>CURR 29526:</b>	<b>DISCIPLINE-POS APPCH</b>	<b>3 S.H.</b>
<b>CURR 29528:</b>	<b>Curriculum and Methods in Subject Field</b>	<b>3 S.H.</b>
	This course provides students with the opportunity to apply the latest principles and practices of secondary education to their major subject field. The newer techniques and materials are considered in light of their contribution to purposeful learning. This course may not be offered annually.	
<b>CURR 29529:</b>	<b>Analysis of Current Research in Science Education</b>	<b>3 S.H.</b>
	Concerned with the role of the science teacher in the classroom, laboratory and other school situations. Considers the changes which have been made and which are still occurring in the field of science education. This course may not be offered annually.	
<b>CURR 29535:</b>	<b>SEMINAR TCHR LIT</b>	<b>3 S.H.</b>
<b>CURR 29540:</b>	<b>Strategies of Planned Curriculum Change</b>	<b>3 S.H.</b>
	This graduate seminar course is designed to enable a student to identify, explore, and apply selected strategies of planned curriculum change. Barriers to, and constraints limiting, curriculum change at the national, state, and local level will be examined. Students will be expected to exhibit a knowledge base in curriculum theory and development. Within the scope of the course, students will be expected to select and research a curriculum change problem. Teams from school districts are encouraged to enroll. This course may not be offered annually.	
<b>CURR 29547:</b>	<b>Curriculum Theory</b>	<b>3 S.H.</b>
	An introductory examination of the problems involved in the generation of curriculum theory. Emphasis is placed on the analysis of the constraints within which theoretical frameworks are developed and their implications for curriculum designs K-12. Selected contemporary curriculum theorists will be introduced and their views examined. Prerequisites for this course are Fundamentals of Curriculum Development and Public School Curriculum K-12.	

**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 29552: PUB SCH CURR MID SCH 3 S.H.**

**CURR 29555: JR HI/MID SCH CURRIC 3 S.H.**

**CURR 29562: Motivational Techniques Workshop 3 S.H.**

Current stimulating strategies for establishing and maintaining high student interest levels will be explored and generated by instructor and group participants. Workshop members will be expected to develop and share a variety of motivational techniques. This workshop is designed to demonstrate to teachers that instruction need not be confined to a single method, single subject, or the single room. Motivation is an essential element of any successful learning climate. This course may not be offered annually.

**CURR 29563: Junior High/Middle School Curriculum 3 S.H.**

The course will be directed in a practical sense to an analytical study of the junior high/middle school concept. Attention will be directed to curriculum development, implementation, and evaluation in relations to the nature of the learner. Teams from schools are encouraged to enroll. This course may not be offered annually.

**CURR 29580: Fundamentals of Curriculum Development 3 S.H.**

This course provides background in goals, objectives, assumptions, values, issues, and theory related to modern curriculum. Topics include learning and curriculum, the nature and structure of knowledge and curriculum design, criteria for staff, lay advisers, committees, and consultants for the purpose of curriculum planning. This is a basic course which is a prerequisite for further study in curriculum.

**CURR 29585: INQUIRY WKSHP 3 S.H.**

**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.
- CURR 29602: PRACT CURR/INSTR** **3 S.H.**
- CURR 29603: SPEC SEM/INVES-SS** **3 S.H.**
- CURR 29604: CONF METH TCHG RHET** **3 S.H.**
- CURR 29605: SEMINAR IN SOC STUDY;** **3 S.H.**
- CURR 29606: SEM/TCHG SOC STING** **3 S.H.**
- 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 09551: Digital Signal Processing** **3 S.H.**  
 This is a first level graduate course that covers the fundamentals of digital signals, systems, transforms and filters. Systems concepts taught include linearity, time-invariance, stability, causality, difference equation representation, impulse response and convolution. The issue of frequency response and sampling is covered. The z-transform is introduced. Design methods and structures of digital filters are discussed with the exposure to do software design. Random digital signals are also covered.
- ECE 09552: Digital Image Processing** **3 S.H.**  
 Digital image processing covers the analysis and contemporaneous applications of the enhancement, restoration, compression and recognition of monochromatic images. Both classical and state-of-the-art algorithms will be employed in conjunction with appropriate software for analyzing real-world images.
- ECE 09553: Digital Speech Processing** **3 S.H.**  
 This course covers the fundamentals of digital speech signals and processing and simultaneously stresses real-life engineering aspects from a systems perspective. An overview of the different branches of speech processing are covered, namely, speech production, vocal tract modeling, speech coding, speech recognition, speaker recognition and speech synthesis. The building blocks of such applications, namely, linear predictive analysis and quantization (scalar and vector) are taught.
- ECE 09554: Theory and Engineering Applications of Wavelets** **3 S.H.**  
 The theory of wavelets gave rise to a substantial number of applications in many areas including various fields of engineering, making it one of the most popular research areas of all times. In this class, the theory of wavelets will be carefully developed from the ground up, with an emphasis on engineering applications. Starting with a review of Fourier based signal analysis methods, short time Fourier transform, continuous wavelet transform, discrete wavelet transform, fast wavelet algorithms, wavelet packets, wavelet networks will be discussed. Applications of wavelets such as image and audio compression, biological signal analysis, feature detection, signal denoising will also be explored.

**ECE 09555: Advanced Topics in Pattern Recognition 3 S.H.**

This class will introduce a broad spectrum of pattern recognition algorithms along with various statistical data analysis and optimization procedures that are commonly used in such algorithms. Although mathematically intensive, pattern recognition is nevertheless a very application driven field. This class will therefore cover both theoretical and practical aspects of pattern recognition. The topics discussed will include Bayes decision theory for optimum classifiers, parametric and nonparametric density estimation techniques, discriminant analysis, basic optimization techniques, introduction to basic neural network structures, and unsupervised clustering techniques. As a graduate level course, several advanced and contemporary topics will also be covered, including fuzzy inference systems, support vector machines, adaptive resonance theory, incremental learning and online learning and particle swarm optimization. Students will be expected to conduct independent research for possible publications, as part of the class project.

**ECE 09556: Embedded System Design 3 S.H.**

**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 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.

**ECED 23501: LEADR ROLES CDC-DIR 4 S.H.**

**ECED 23502: LEAD ROLE CDC-HD TCHG 4 S.H.**

**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 23525: Play and the Learning Environment 3 S.H.**

This course provides in-depth study of current research to build increased understanding of the nature and the development of play and the interface of the play phenomena and learning in young children. Play and the curriculum, the role of adults and culture in enriching children's play, and planning the learning environment with strategies that accommodate individual needs are important course topics. Observing and assessing play are also included.

## Course Descriptions

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**ECON 04501: ECON FOR EL/SEC TCHR 3 S.H.**

**ECON 04502: Current Economic Issues for the Classroom 3 S.H.**

Course is targeted for elementary and secondary teachers. The course will focus such timely issues as the global economy, the federal deficit, the monetary system, the environmental problem, and a survey of the recent performance and problems of the American economy. Course will feature several speakers, for example, from the New Jersey Council on Economic education.

**ECON 04530: COMP ECON SYSTEMS 3 S.H.**

**ECON 04538: THE AMERICAN ECONOMY 3 S.H.**

**ECON 04540: HIST ECON THOUGHT 3 S.H.**

**ECON 04541: Managerial Economics 3 S.H.**

This course integrates economic theory and methodology with analytical tools for application to decision making about the allocation of scarce resources in public and private institutions. Topics covered include: decision analysis, forecasting, demand analysis, production, cost analysis, profit measurement and pricing.

**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 27506: Introduction to School Leadership 3 S.H.**

This course provides an introduction to the theory and practice of leading a school and district as a human organization. It deals with problems of K-12. The latest research and practices are reviewed regarding team management, organizational theory, and management skills.

**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 27534: School Plant Planning and Management 3 S.H.**

School building problems, public relations, finance, school enrollment forecasts, planning and supervising building construction and the choice of equipment and materials are dealt with. This course is a practical course; visits will be made to newly constructed facilities and written critiques will be completed.

**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.

**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 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 27569: The Law, the Courts, and the Public School 3 S.H.**

This course is designed to provide in-depth basic knowledge of the law directly affecting education in the United States. It is all-inclusive in content, analyzing and synthesizing judicial interpretations of the federal and state constitutions, statutes, rules and regulations and the common law in an objective manner.

**EDAM 27572: Rights and Responsibilities of the Educational Professional 3 S.H.**

Students will examine the development of school law and public policy in the United States, especially as law and public policy legally "touch" formal schooling. Students will review the many ways laws and policies affect the school community: students, teachers, administrators, and parents. The comprehensive nature of this course will increase the students' awareness of the theories, assumptions, ideas, events, laws and policies that influence formal education, how these influences occur, and how they will impact on future school law and public policy.



**EDAM 27580: Research Proposal Development for the Practicum and Seminar in School Administration/Supervision I a** 2 S.H.

This course focuses on the design and development of a research proposal for use in the Practicum/Seminar in Administration/Supervision I and II. Students will engage in constructing a formal research proposal for their required internship. The research proposal will include strategies for solutions to five separate field projects. Satisfactory completion of this course will require formal acceptance of the intern's research proposal by the intern's university mentor and the administration of the intern's field site.

**EDAM 27600: Practicum/Seminar in Administration/Supervision I** 3 S.H.

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.

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 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 27626: Practicum in Higher Education Administration 3 S.H.**

Students will utilize their workplace as the laboratory to apply theory and to consider issues of organizational culture and professional practice.

**EDAM 27627: Higher Education Administration Capstone Seminar 3 S.H.**

The seminar will provide the opportunity for integration, synthesis, and reflection. Students will complete the master's thesis and will prepare an educational leadership platform.

**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 27632: Technology for School Leadership 3 S.H.**

In this course, students identify and use current technologies to assist with delivery and administration of educational programs, including how to employ technology as a tool in action research, how to apply strategies for the disaggregation of data for decision making purposes, how to use technology for administrative and instructional support, and how to apply technology for the understanding of teaching, learning, and school and community relations.

**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 27701: Organizations as Cultures: Theory and Applications 3 S.H.**

This course develops the necessary leadership skills to identify, understand, and analyze the overt cultural artifacts and espoused values, as well as the covert underlying basic assumptions which are embodied in an educational organization's culture.

**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 27706: Negotiating** 3 S.H.

This course focuses on the leadership role of creating mutual understanding and agreement among people and groups who may have fundamental differences of opinion. Students will learn the dynamics of the formal and informal negotiation processes, as well as what constitutes a good agreement.

**EDAM 27707: Planning** 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, budgets, etc., that will accomplish the goals and objectives. Students will also focus on the planning of new programs and policies as strategic implementation approaches. A simulated strategic planning process utilizing information from a hypothetical school system or college will be undertaken.

**EDAM 27708: Organizational Communications** 3 S.H.

In this course, students analyze the dynamic interaction processes that affect how people think and behave in educational organizations. Students study the nature of effective organizational communication and strategies to remove the communication barriers that constrain the achievement of individual and organizational goals.

**EDAM 27709: Leadership Challenges** 3 S.H.

Students will examine the major issues that require leadership in the educational setting. Focus will be on the innovative approaches being undertaken across the nation to meet these challenges.

**EDAM 27713: Forces of Change in American Society** 3 S.H.

This course teaches educational leaders to examine the complex demographic, social, political, and economic forces at work in society as they effect education and to explore alternative responses to issues that arise.

**EDAM 27719: Leadership Research Project Proposal** 3 S.H.

**EDAM 27720: LDRSHP APPS/FLDWRK/SEMINAR** 9 S.H.

In this course, students will structure a change project that will take place in each student's workplace. The focus will be to develop a plan for the solution of a significant organizational problem or program development need, to design the research methodology to study the change process, and to collaborate with university faculty and institutional leaders to negotiate the changes.

**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.

**EDAM 27735: Promoting Effective Learning** 4 S.H.

This course focuses on the best ways to facilitate learning for the diverse range of students, e.g., typical, atypical, at risk, disadvantaged, gifted and talented, young, and old. It examines issues such as how the educational environment can be organized to maximize learning, whether the manner in which students are grouped contributes to improved learning, how an individual's learning and behavior styles may be taken into account when planning instruction, the effectiveness of peer learning and mentoring, etc. The course also provides insight on the use of instructional technology to improve learning outcomes.

**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 27739: Current Issues in Education 3 S.H.**

This course will have a changing focus that will permit faculty to offer specialized seminars on various themes: new developments in the field, issues of significance where advanced specialization would be helpful to educational leaders, areas of faculty research and scholarship, or areas of student request. 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 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 27744: Future Studies 3 S.H.**

This is an introduction to the field of future studies, including its concepts and methodologies. Students will study trends and forecasts in areas that are reshaping America and the world, including population, science and technology, information and communications, the physical environment, geo-political factors, and socio-economic trends. The effect on the individual, families, communities, and institutions will be studied with an emphasis on the implications for education. Students will utilize futures methodologies in a research project on futures in education.

**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 of the 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.**

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.

**EDED 16582: OCC INFO/VOC GUID 3 S.H.**

**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 24502: Initiation of Internship Project 1 S.H.**

see EDST24.608

**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. Student will engage in reflective practice and will complete an action research project in an appropriate educational setting.

**EDST 24565: Analysis and Application of Research 3 S.H.**

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.

- EDST 24566: Research in Classroom Practice 3 S.H.**
- EDST 24602: Development of Internship Project 1 S.H.**  
See EDST24.608
- EDST 24608: Internship Project Report 2 S.H.**  
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.
- EDST 24624: Educational Change 3 S.H.**  
To assume leadership roles and to become change agents in 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 educational change and strategies to achieve and sustain momentum for change. Various field work components will be integrated throughout this course.
- EDST 24703: Research for Educational Leadership I 1 S.H.**  
This course focuses on two broad areas: issues of validity and reliability in methodological inquiry and approaches in educational evaluation and assessment. This course provides practical knowledge for use by educational leaders to support administrative decisions.
- EDST 24705: Research for Educational Leadership II 1 S.H.**  
This course emphasizes qualitative research with emphasis on policy research, analysis, and assessment. This course provides practical knowledge for use by educational leaders to support administrative decisions.
- EDST 24706: RES ED LEADERSHIP III 1 S.H.**
- 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 24708: RES ED LEADERSHIP IV 1 S.H.**
- 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.
- EDST 24710: RES ED LEADERSHIP V 1 S.H.**

**EDST 24722: Research Literature Analysis and Writing in Educational Leadership 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.

**EDST 24723: Conducting and Analyzing Survey Research in Educational Leadership 3 S.H.**

The ability to carry out, interpret, understand and digest research in diverse contexts and with diverse populations is critical for successful educational leaders. The course provides learning experiences to understand survey research methodologies, data collection techniques, analysis and communicating results, with a particular focus on utilizing survey research within action research projects.

**EDST 24724: Conducting and Analyzing Qualitative Research in Educational Leadership 3 S.H.**

The ability to carry out, interpret, understand and digest research in diverse contexts and with diverse populations is critical for successful educational leaders. The course provides learning experiences to continue to understand qualitative research methodologies, data collection techniques, analysis and communicating results, particularly in relation to action research.

**EDST 24790: Dissertation Proposal 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 avoid common difficulties encountered in dissertation research.

**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 28501: Administration and Supervision of Music Education 3 S.H.**

This course is a study of current practices and techniques of supervision with emphasis placed on the problems relating to specific administrative positions and to most music programs. This course may not be offered annually.

**EDSU 28502: ART EDUC SUPERVISION 3 S.H.**

**EDSU 28503: Leading the Learner Centered School 3 S.H.**

This course is designed to explore the best ways to facilitate learning for students and to examine how the educational environment can be organized to maximize learning for all.

**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 approached to action research. Student 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 28598: Observational Skills for Supervisors 3 S.H.**

Emphasis is on the observation and evaluation of teaching performance using research/measurement based assessment instruments and techniques. Research on teaching and effective schools forms the theoretical basis for performance appraisal.

**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.

**EDSU 28605: Field Experience Administrative-Supervision 4 S.H.**

**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 28710: Leadership Seminar I 3 S.H.**

The Leadership Seminar series spans each stage of the doctoral program, serving throughout the seven semesters as a focusing technique to forge the cohort into a defined community of learners and scholars. While its primary function is to serve as a vehicle for self-reflection, group reflection, and the integration of course work with professional concerns, the Leadership Seminar also provides the opportunity for the cohort to tailor the program to meet specific professional concerns and developmental needs as they emerge.



**EDSU 28715: Leadership Theory 3 S.H.**

The 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.

**EDSU 28716: Leadership Seminar VI 2 S.H.**

See Leadership Seminar I

**EDSU 28718: Seminar on the Psychology of Leadership 3 S.H.**

This course develops student's understanding of the psychological needs of persons who seek leadership roles, human nature in the work place, the psychological factors that underpin decision-making and acceptance of change, and utilizing psychology to create a more supportive, empowering, and effective work place.

**EDSU 28721: Special Topics in Leadership 3 S.H.**

This course will have a changing focus that will permit faculty to offer specialized seminars focused on new developments in the field, issues of significance where advanced specialization would be helpful to educational leaders, 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.

**EDSU 28724: Leadership Problems I: Field Studies 4 S.H.**

The first of a two-course sequence, this course will structure students into leadership teams that will be assigned to work with specific schools and colleges to assist in the development of a plan for the solution of a significant organizational problem or program development need.

**EDSU 28725: Leadership Problems II: Field Applications 3 S.H.**

The second in a two-course sequence, this course will employ the leadership teams, previously established in Leadership Problems I, to develop a final action plan for the solution of a significant organizational problem or program development need, and to participate in the implementation of the change.

**EDSU 28726: Leadership Problems 7 S.H.**

This is a field-based course that involves students in a major collaborative effort to address a complex problem or opportunity in an educational setting. Students engage in analytical and design activity, as well as develop a comprehensive implementation plan. Focus is on both the substance of the problem/opportunity and the process of change.

**EDSU 28728: Leadership and Educational Philosophy 3 S.H.**

This course focuses on the democratic ideals that underpin educational philosophy in America, formal schools of educational philosophical thought, problems in educational philosophy, and the implications of educational philosophy for educational leadership.

**EDTC 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.

**EDTC 33521: Instructional Computer Languages: LOGO 3 S.H.**

This course is designed to help students become literate in a structured programming language. Special emphasis is placed on teaching techniques and curriculum design relating to public school education.

**EDTC 33525: Instructional Applications of Word Processing and Data Management 3 S.H.**

Word processing, data base management and spreadsheet operations are combined into an integrated system suitable for educational applications, including text preparation, filing, and grading systems. Hands on experience with the integrated systems, along with other complementary software, including desktop publishing and keyboarding, is provided. Evaluation of programs for classroom use, as well as personal use, is included.

**EDTC 33530: Computer-Assisted Instruction 3 S.H.**

This course provides a foundation for the effective design, selection, and evaluation of educational software. Instructional interaction between the computer and the student is explored and the teacher's role in CAI is defined. A variety of software packages for the classroom are evaluated.

**EDTC 33548: Seminar in Educational Technology 3 S.H.**

The major concepts studied in the Computers in Education Post-Baccalaureate Certificate Program are summarized, integrated, applied, and evaluated in this course. An in-depth research project is developed and executed. Projects are selected from the areas of curriculum development and evaluation, computer assisted instruction, or administrative applications.

**EDTC 33560: Instructional Applications of Computers 3 S.H.**

As an entry level course in computer usage for teachers, this course deals with the use of computer hardware and software in classroom settings. Commercial and public domain courseware packages are examined in terms of their quality and their potential for enhancing the curriculum. In addition, computer hardware uses in the P-12 environment are examined.

**EDTC 33572: Special Topics 3 to 6 S.H.**

This course will address specific contemporary issues in educational computing. The topics will change as needs arise and will be published in the course selection catalog. Variable credit.

**EDTC 33574: Multimedia and Hypermedia for Teachers 3 S.H.**

As an advanced level course for classroom teachers engaged in the utilization of the computer in the classroom, this course will explore ways to create multimedia and hypermedia materials for use in the classroom. Instructional planning is emphasized by applying the principles of instructional design and using the techniques of courseware design to facilitate the delivery of information in the context of multimedia and hypermedia environments.

**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 33583: Computers and Related Technologies in the Elementary Classroom 3 S.H.**

This course is designed to assist elementary school teachers in the successful integration of computers and related technologies into the elementary classroom curriculum. The student will develop computer and technology skills enabling them to select, interpret, and evaluate computer elementary and middle school applications in the math, science, social studies, reading and language arts curriculum. The student will be exposed to a large variety of educational software.

**EDTC 33584: Desktop Publishing in the Educational Environment 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.**

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.

**EDTC 33586: Planning and Implementing Technology in Education 3 S.H.**

This course is intended for present and future leaders of instruction and technology in public schools. This course will help the graduate student become instrumental in improving teaching and learning by examining concepts and techniques in strategic planning, goal setting, curriculum restructuring and alignment, technological assessment, and program and staff development. The course will provide the graduate student with experience in selecting the appropriate hardware and software in an educational setting. Students will also be asked to identify and explore future trends in educational technology.

**EDTC 33587: New Directions in Educational Technology 3 S.H.**

This course is intended for educators who are interested in identifying new technologies and unique applications of these technologies in classrooms. Students will research, identify and publish information about new innovations and applications on a web site specifically designed for this endeavor. This web site will provide a forum for the graduate student. It will also include suggested as well as tried-and-true activity structures, and assessment rubrics. This course will afford the graduate student opportunities to make connection with professionals in related areas of technology design and development.

**EDTC 33588: Research Seminar in Educational Technology I 3 S.H.**

This first seminar will provide a foundation whereby the student (1) gains an understanding and appreciation of the field of educational research and (2) develops sufficient knowledge of action research methodology. In this course, the student will identify an appropriate topic of study and the research questions for the action research project required by the program. The course will also address the literature review and the research design the student will use in the project. The technology-based action research project will be completed in the second seminar.

**EDTC 33589: Research Seminar in Educational Technology II 3 S.H.**

This course is a continuation of EDTC 33.588 Research Seminar in Educational Technology I. It provides additional formal training in action research. The course focuses on the continuation of data collection and data analysis as well as elucidating findings and conclusions based on the technology-based action research project. Students will also be required to present a formal written version of their action research project, which will be guided by the course professor.

**EDUC 01500: Trends and Practices in Classroom Teaching 3 S.H.**

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.

**EDUC 01600: RESEARCH SEMINAR R 2 to 4 S.H.**

**EDUC 01601: Clinical Internship I 5 S.H.**

**EDUC 01603: Clinical Seminar I 2 S.H.**

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.

**EDUC 01605: Clinical Internship II 7 S.H.**

**EDUC 01607: Clinical Seminar II 1 S.H.**

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.

**EDUC 01610: TCHNG FOR EQUIT/ACHIEV DVRS CL 3 S.H.**

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.

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Course Descriptions

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<b>ELEM 02502:</b>	<b>SCH WITHOUT FAILURE</b>	<b>3 S.H.</b>
<b>ELEM 02503:</b>	<b>UND/APP PHY SCI CONC</b>	<b>1 S.H.</b>
<b>ELEM 02504:</b>	<b>UND/APP EARTH/SPACE</b>	<b>1 S.H.</b>
<b>ELEM 02505:</b>	<b>UND/APP LIFE SCIENCE</b>	<b>1 S.H.</b>
<b>ELEM 02506:</b>	<b>CONTEMP ELEM ED/MATH</b>	<b>1 S.H.</b>
<b>ELEM 02507:</b>	<b>TOP ELEMENTARY MATH</b>	<b>3 S.H.</b>
<b>ELEM 02508:</b>	<b>INT DIRCT INST MATH</b>	<b>3 S.H.</b>
<b>ELEM 02510:</b>	<b>ADVANCED CHILD LIT</b>	<b>3 S.H.</b>

**ELEM 02511: Learning Community Classrooms** **3 S.H.**  
This course focuses on identifying the characteristics of a learning community classroom, the propensities of learning community teachers, and the stages of group development in establishing a learning community. Course activities include study of personal planning, implementing, and reflecting strategies for establishing a learning community classroom.

**ELEM 02512: Teaching Math, Science, and Health in Elementary Classrooms** **3 S.H.**  
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.**  
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 02517: Clinical Experiences in Elementary School Mathematics** **3 S.H.**  
The graduate student will use current assessment instruments and plan strategies for diagnosing and improving the mathematics skills and concepts of an elementary school child who is deficient in mathematics and has enrolled in the clinic. This course consists of both formal classwork and working with a child enrolled in the clinic. This course may not be offered annually; usually offered in the summer.

- ELEM 02525: CAREER ED ELEM SCH 3 S.H.**
- ELEM 02529: CLSRM MGMT PRINCIPLS 3 S.H.**
- ELEM 02532: Contemporary Elementary Education/Special Topics 1 to 6 S.H.**  
 Considers the principles and practices of special topics in elementary education. This course provides in-depth development of special topics in elementary education.
- ELEM 02533: OPEN ED ELEM SCH 3 S.H.**
- ELEM 02534: ELEM SCHOOL CURRIC 3 S.H.**
- ELEM 02536: Elementary School Curriculum 3 S.H.**  
 The major focus of this course is to have early childhood and elementary grade teachers examine the school curriculum in the role of curriculum designers as they review and reevaluate the current curriculum in their schools, using criteria from research available in the current knowledge base of the profession. Most of the presentations of material in class will be accomplished through committee structures based upon the learning community model.
- ELEM 02537: Contemporary Curriculum Processes/Social Studies 3 S.H.**  
 This course is designed to acquaint the student with current global, national and local school-based programs in social studies with emphasis on those of a multi-cultural, multi-ethnic nature. Criteria will be developed for the selection and use of curricula materials and equipment in the field, and the latest evaluation techniques will be considered. Course may not be offered annually.
- ELEM 02538: Contemporary Curriculum Processes/Science 3 S.H.**  
 This laboratory oriented course dealing with inquiry through the use of process skills. Original investigations are carried out, and techniques are developed to prepare the teacher to guide children in the use of these skills. S-APA, SCIS, ESS and subsequent programs are examined and evaluated.
- 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.
- 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 02541: Practices in Elementary Education (Art) 3 S.H.**  
 Emphasizes analysis of trends, objectives, methods and materials in art education in terms of underlying assumptions about learning and experience. Attention is given to developing practices in art education that are based on sound theory of art and education.

**ELEM 02542: Linguistic Emphasis of Language Arts Teaching 3 S.H.**

This course in the teaching of language arts is designed to provide teachers with a balanced view of experiences children need to learn the structure and use of language. It is also intended to provide a foundation for a linguistic emphasis on language learning.

**ELEM 02543: PRAC EL ED HLTH/PE 2 S.H.**

**ELEM 02544: SUPERVISED TCHG SEM 8 S.H.**

**ELEM 02550: Analysis of Classroom Teacher Behavior 3 S.H.**

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.

**ELEM 02551: Diagnostic Teaching and Evaluation of Basic Language Arts Skills 3 S.H.**

This course will explore and examine various diagnostic processes and evaluational techniques as they relate to the Language Arts. Concepts related to diagnostic teaching procedures (based on the study of standardized language tests and formal and informal assessment techniques) for the underachiever, the gifted and the language disabled child will be developed. 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 02553: Use of Communications Media to Teach Elementary Language Arts Skills 3 S.H.**

This course introduces the student to the basic production processes utilized by various communication media, e.g., television, radio, print, and theater. The student will learn how to work with children to stage production in each of these media as a means of teaching basic language arts skills. The student will also learn how to manage the product of the media as a vehicle to teach children to receive and interpret communications. A fee is required for laboratory materials. This course may not be offered annually.

**ELEM 02554: Measurement and the Metric System in Elementary School Mathematics 3 S.H.**

This course is designed to equip the student with knowledge of measurement theory and the metric system of measurement through the laboratory approach. Teaching methods will be stressed, and a variety of metric lab equipment and materials will be examined and evaluated. This course may not be offered annually.

**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 02558: Principles of the Math-Lab/Learning Center Approach in Elementary School Mathematics 3 S.H.**

This course will familiarize the student with many different manipulative devices used in elementary mathematics programs, suggest appropriate methods for use, provide opportunities to gain experience in their use, aid in developing the ability to relate mathematics symbols and vocabulary to physical modules and drawings. This course may not be offered annually.

**ELEM 02560: Research Seminar in Elementary Mathematics Education 3 S.H.**

This course provides an opportunity for the student to locate, read, analyze, and discuss research in the field of mathematics education and to develop skills in research design. Procedures used in research involving elementary mathematics will be investigated. Various research procedures will be studied to develop ability to interpret and understand current research in mathematics. Students will design an investigation of a topic in elementary mathematics. This course may not be offered annually.

**ELEM 02562: GLOBL PERSPCT EL SS 3 S.H.**

**ELEM 02583: PRAC EL ED MUSIC 3 S.H.**

**ELEM 02590: TEACHER/RESEARCHER 3 S.H.**

**ELEM 02600: 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.)

**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.)

**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 01531: ENGRNG INVENTNS/CREATV DSGN 3 S.H.**

This course covers several topics including the innovation process, the theory of creative problem solving, patents, and bringing innovation to the bottom line. Discussions of the innovation process include: creating paradigm shifts, proven brainstorming techniques, and effective utilization of all resources. The theory of creative problem solving includes basic principles and applications in the real world. The discussion of patents includes the basics of the international patent system. The discussion of bringing innovation to the bottom line includes: Stage Gate Project Management techniques, project portfolio management, critical links between the business team and the customer, and managing multiple priorities - doing more with less. Case studies in invention and creative design are included.

**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.

**ENGL 02580: AMER FICT SINCE 1914 3 S.H.**

**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.

**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.

**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 01505: ENG ESTIMATING 3 S.H.**

**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 01598: 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 01599: Master's Thesis Research 1 to 6 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. The research will culminate in a comprehensive master's thesis. A final oral presentation and defense are required.

**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.**

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.

**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 to be covered will change over time. Contact the MBA office or the Management and MIS Department for details.

**FIN 04500: Financial Decision Making 3 S.H.**

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 04510: INDEPENDENT STUDY:FINANCE 1 to 6 S.H.**

**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.**

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: Financial Engineering 3 S.H.**

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 04600: Investments/Portfolio Analysis 3 S.H.**

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.

**FNDS 21502: Foundations of Education 3 S.H.**

In this course, an examination is made of the complexity and variety of factors influencing contemporary education in order to have an adequate explanation of school policies and practices and the process of change. Some factors to be considered are political structures, social class structures, the impact of traditional values, mass media, demographic factors, economics, and ideology.

**FNDS 21504: Foundations of Cross Cultural Education 2 S.H.**

Students will examine the many ways that cross-cultural education is being dealt with in grades K-12. Students will: 1) acquire information on trends and problems in multi-cultural environment; 2) understand the economic and political forces interacting with the multi-cultural environment; 3) critically investigate and analyze contemporary issues; and 4) assess present conditions in cross-cultural environments, suggesting remedies to problems that have been identified.

**FNDS 21525: COMPARATIVE EDUC 3 S.H.**

**FNDS 21527: Historical and Philosophical Foundations of Education 3 S.H.**

Emphasis is upon twentieth century education in the United States and attention is given to contributions of selected thinkers from Plato to Dewey. The nature and functions of educational theory are also of special concern in this course and students are to analyze educational practices for implied or stated philosophical assumptions.

**FNDS 21528: FOUND SCH SOC PROBS 3 S.H.**

**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.

**FNDS 21532: VIOLNCE/VANDLSM SCH 3 S.H.**

**FNDS 21540: Computers and Related Technologies in the Secondary Classroom 3 S.H.**

This course is designed to assist secondary teachers in the successful integration of computers and related technologies into the secondary classroom curriculum. The student will develop computer and technology skills enabling them to select, interpret, and evaluate computer applications in the math, science, social studies, reading and language arts curriculum. The student will be exposed to a large variety of educational software.

**FREN 02500: IND STUDY-FRENCH 3 S.H.**

**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.

**GEOG 06501: INDEP STUDY GEOG 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 06555: Geographic Information Systems (GIS) Topics and Applications 3 S.H.**

Geographic Information Systems (GIS) Topics and Applications provides an extended exploration into Geospatial science and analysis at the graduate level. Students develop advanced GIS skills through a project-based approach culminating in a final project and presentation. The course deepens the understanding of raster and vector data structures as well as the ability to work with computational algorithms used in GIS analysis. Students learn through lectures, demonstrations, computer laboratory sessions and a project paper and presentation.

**GEOG 06555: Geographic Information Systems (GIS) Topics and Applications 3 S.H.**

Geographic Information Systems (GIS) Topics and Applications provides an extended exploration into Geospatial science and analysis at the graduate level. Students develop advanced GIS skills through a project-based approach culminating in a final project and presentation. The course deepens the understanding of raster and vector data structures as well as the ability to work with computational algorithms used in GIS analysis. Students learn through lectures, demonstrations, computer laboratory sessions and a project paper and presentation.

**GEOL 14512: MAR FOSSILS NJ COAST 1 S.H.**

**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.

**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 06604: SEM/INT COM COL ED II 4 S.H.**

**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.

**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 05501: Topics in Ancient History 3 S.H.**

Course Descriptions

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<b>HIST 05504:</b>	<b>Colloquium in European History</b>	<b>3 S.H.</b>
<p>This course introduces students to 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.</p>		
<b>HIST 05505:</b>	<b>Colloquium in Global History</b>	<b>3 S.H.</b>
<p>This course introduces students to 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, Latin American, and the Middle East.</p>		
<b>HIST 05513:</b>	<b>TOPICS 20TH CENT US</b>	<b>3 S.H.</b>
<b>HIST 05515:</b>	<b>TOP 20TH CEN US HIST</b>	<b>3 S.H.</b>
<b>HIST 05521:</b>	<b>SOUTH ASIA I</b>	<b>3 S.H.</b>
<b>HIST 05532:</b>	<b>SOUTH ASIA II</b>	<b>3 S.H.</b>
<b>HIST 05534:</b>	<b>CHINA SINCE MANCHU</b>	<b>3 S.H.</b>
<b>HIST 05537:</b>	<b>DEV SE ASIA TO 18CN</b>	<b>3 S.H.</b>
<b>HIST 05538:</b>	<b>SE ASIA SINCE 1701</b>	<b>3 S.H.</b>
<b>HIST 05544:</b>	<b>NJ IN AMERICAN HIST</b>	<b>3 S.H.</b>
<b>HIST 05556:</b>	<b>TOPICS EUROPEAN HIST</b>	<b>3 S.H.</b>
<b>HIST 05557:</b>	<b>HISTORY OF FRANCE I</b>	<b>3 S.H.</b>
<b>HIST 05558:</b>	<b>HIST FRANCE FROM1815</b>	<b>3 S.H.</b>
<b>HIST 05578:</b>	<b>RUSSIA TO 1855</b>	<b>3 S.H.</b>
<b>HIST 05579:</b>	<b>HIST RUSSIA FROM 1855</b>	<b>3 S.H.</b>
<b>HIST 05587:</b>	<b>PHILOS OF HISTORY</b>	<b>3 S.H.</b>
<b>HIST 05588:</b>	<b>BLACK PEOPLE NEW WLD</b>	<b>3 S.H.</b>
<b>HLTH 37502:</b>	<b>TCHG STRATEG SEX ED</b>	<b>3 S.H.</b>

**HLTH 37510: Selected Topics in Health 3 S.H.**

This course provides students with the opportunity to identify causes, effects, prevention and intervention techniques of current health problems of students in the schools. The graduate student will have the opportunity to investigate a variety of strategies utilized by schools, communities, and the medical world to solve the problem. Curriculum development will also be included. This course may not be offered annually.

**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 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 37540: Current Advances in Health Sciences 3 S.H.**

Examines the latest developments and studies research finding which pertain to both personal and community health problems and issues. This course may not be offered annually.

**HR 16503: INDEPENDENT STUDY:HR 1 to 9 S.H.**

**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.**

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.

**INAR 05505: ADV PROBS CONT FAM 3 S.H.**



## Course Descriptions

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**INAR 05510: METH TCHG FAMILY ED 3 S.H.**

**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 01505: Workshop in Mathematics and Science 1 to 6 S.H.**

Students in this course will be involved in hands-on workshops designed to address individual interests and needs with respect to both content and pedagogy. In addition, students will study the identification and selection of appropriate instructional materials for teaching mathematics and science. Also included in the course is planning, implementing, and evaluating field trips in science and mathematics.

**INTR 01507: Facilitating Change in Mathematics and Science 3 S.H.**

Students in this interdisciplinary course will review recent developments in the sciences and mathematics that affect the importance of specific topics. In addition, they will examine and apply the research on facilitating change in the schools.

**INTR 02501: INSERT PGM TCHR DRUG 2 S.H.**

**INTR 02551: MARINE INVRT PALEBIO 4 S.H.**

**INTR 02552: MANS IMPCT COAST ZON 3 S.H.**

**INTR 02585: ADV DIEW FOR EDUCATR 3 S.H.**

**INTR 02610: DRUG INFO EDUC WKSHP 3 S.H.**

**INTR 02611: ADV DRUG INF WKSHP 3 S.H.**

**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.

**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 18530: ALTER-APPROACH SP ED 3 S.H.**

**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.

**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 18604: APPLD THEORIES LRNG 3 S.H.**

**LDTC 18605: ADV DIAGNOSIS TECH 3 S.H.**

**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.

**LDTC 18651: COLLOQUIUM LRNG DIS 3 S.H.**

**LDTC 18655: Colloquium in Learning Disabilities 6 S.H.**

The course includes study and discussion of components of the Learning Consultant role based upon consideration of research and case material related to the externship experience. The externship component is a 360-clock hour supervised experience in a public school setting.

**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.

**LIBR 01514: LIT OF BEHAV SCIENCE 3 S.H.**

**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 01519: PREP INEXP INST MEDI 3 S.H.**

**LIBR 01520: INVST/NEWER ED MEDIA 3 S.H.**

**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 01522: INSTRUCTIONAL IV 3 S.H.**

**LIBR 01525: Reference Resources and Services II 3 S.H.**

Building on previous coursework, this course is devoted to understanding and serving the information needs of the general adult public. Reference skills, resources, and materials in a variety of disciplines will be studied. Students will observe at a library reference desk for 10 hours during the semester.

**LIBR 01528: Workshop in Library Services 1 to 6 S.H.**

This course is designed for in-service media specialists and librarians. Topics will be selected to meet continuing and emerging needs in professional practice, combining hands-on activities with theory to allow students to develop and increase skills.

**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 01531: Serving the Library's Publics 3 S.H.**

Students examine the role of the public library in its community beyond the provision of materials and information. Students learn to plan, design, implement, and evaluate programs of service and activities for identified and diverse clientele; create community information databases; and collaborate with other agencies. Ten hours of field observation are required.

**LIBR 01532: Library Materials for Adults 3 S.H.**

This course focuses on library materials to meet the demands of adult patrons for popular reading, listening, and viewing. Topics include: methods of identifying and selecting recreational and cultural materials for various audiences of adult public library users, including new readers and minorities; trends in publishing and distribution of popular materials; and using recreational resources for programming and promotion.

**LIBR 01550: Independent Study in Library Services 1 to 6 S.H.**

This course is designed for an individual who wishes to study a topic or subject in library and information science not included in the listed offerings of the program. The student undertakes an independent study under the supervision of a faculty member in the Program in School and Public Librarianship. May not be offered every semester.

**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 01600: Graduate Thesis in Library Services I 3 S.H.**

Students select and justify a topic for a research project to be completed as a graduate thesis, including a comprehensive literature search and selection of the research methodology. Students also complete their Program Portfolio as a capstone experience.

**LIBR 01601: Graduate Thesis in Library Services II** 3 S.H.  
Completion of the research project selected in Graduate Thesis in Library Services I.

**MAPR 01500: Working with Printers, Clients, and Colleagues to Produce an Effective Publication** .5 S.H.

Students will learn how to establish rapport with printers and clients so the best printing can be delivered for the lowest price. Students will learn to plan publications schedules and how to anticipate and overcome deadline challenges. Writing specifications for bids will be covered.

**MAPR 01501: Basic Typography and Design** .5 S.H.

Students will learn the basics of typography and design. How to use type effectively and how to design a functional page for various kinds of readers will be emphasized.

**MAPR 01502: Advanced Typography and Design** 1 S.H.

Students will learn how to locate and evaluate research on typography and design. They will learn how to apply research findings regarding type size, line length, headlines, white space, color, photos, etc. to prepare outstanding publications.

**MAPR 01503: Getting the Most out of Art and Photography in Your Publication** .5 S.H.

Students will learn how to use photographs, clip art and other artwork to make a publication effective. Choosing the right art and knowing when to use which kind will be emphasized, as will computer use.

**MAPR 01504: Copyfitting and Paste-up** 1 S.H.

Students will learn how to count copy so they can fit copy on a page. Students will learn how to paste up pages for the printer and for the camera. Hands-on experience will be offered, emphasizing the use of Quark Express.

**MAPR 01505: Publications Potpourri: What the Professionals Do to Assure Publication Effectiveness and Award-winn** .5 S.H.

Students will learn publication trends as determined from award-winning efforts nationally. They will also learn how to determine audience reaction to publications and how to evaluate their effectiveness.

**MAPR 01506: Newswriting** 1 S.H.

Students will learn journalistic style and how to prepare effective news releases. Selecting news topics and writing succinctly will be emphasized.

**MAPR 01507: Tightening Writing and Translating Jargon to Comfortable Language** .5 S.H.

Students will learn to edit the way professional writers do, getting the most from every word. Emphasis will be placed on writing so lay readers can understand. Students will learn how to use the fog index to help themselves and others write better.

**MAPR 01508: Writing Effective Newsletter and Brochure Copy** .5 S.H.

Students will learn how to write copy that commands the attention of different types of newsletter and brochure readers. Writing for the client and for the reader will be emphasized.

- MAPR 01509: Writing Leads That Get Attention** .5 S.H.  
Students will learn how to gain readers' attention by writing effective leads. Emphasis will be placed on writing the first paragraph or two of news stories, reports and memos.
- MAPR 01510: Writing Reports, Letters and Memos** .5 S.H.  
Students will learn how to write reports, memos and letters that communicate effectively with various kinds of readers. Informative and persuasive writing efforts will be emphasized.
- 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 01512: Interviewing Techniques and Research Organization** .5 S.H.  
A short-term course designed to familiarize students and practitioners with a variety of ways to conduct interviews and organize research. Students will be able to develop stories through proven interviewing techniques. Professors will give helpful hints on how to organize and outline data. Creative writing and overcoming writers' block will also be explored.
- MAPR 01515: CREATING PR/AUD-VID MATERIALS** 1 S.H.
- MAPR 01518: Publications Layout and Design** 3 S.H.  
This course stresses skill in the development and supervision of brochure layout, typography, and editing methods, and the preparation of professional publications of various kinds. Included in this course are these five publications modules: MAPR01.500, MAPR01.501, MAPR01.503, MAPR01.504 and MAPR01.505.
- MAPR 01519: Using Audio/Visuals in Public Relations** .5 S.H.  
This module will assist students and practitioners with a print background to make the electronic leap to contemporary Public Relations practices. The course will help make practitioners more comfortable with various audio-visual tools.
- MAPR 01520: Preparing Effective Displays and Exhibits for Public Relations** .5 S.H.  
The course will show students how to plan, set up, and evaluate effective exhibits and displays for public relations purposes. As part of this, students will study the importance of exhibits and displays, as well as the types that would be most effective in communicating with various audiences.
- MAPR 01521: HOW MEDIA AFFECTS US** 1 S.H.
- MAPR 01522: PERSUASION TECHNIQUES** 1 S.H.
- MAPR 01523: How Polls and Surveys Work: How to Conduct Them** 1 S.H.  
The course will cover the work of famous pollsters such as Gallup, Harris, Roper and Yankelovich. Featured will be the steps necessary to conduct a valid poll such as non-probability and probability sampling, the importance of representative sampling, questionnaire development, how to write proper questions, tabulation of the results of a poll, and the interpretation of data.

**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 01525: Making Effective Presentations .5 S.H.**

Students will learn how to prepare effective presentations. Included will be knowing and involving the audience, pacing the presentation and using audio/visual materials and handouts.

**MAPR 01528: Global Public Relations 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.

**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 01539: Client Relationships 1 S.H.**

Students will study how to obtain and keep clients in the highly competitive field of public relations. They will be shown how to develop effective techniques to assure that the relationship between client and agency is a mutually beneficial one.

**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 01542: PUBLIC RELATIONS MANAGEMENT .5 S.H.**

**MAPR 01543: PUBLIC RELATIONS BUDGETING .5 S.H.**

**MAPR 01544: Public Relations Planning 2 S.H.**

This course will cover 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 01545: ORGANIZATIONAL PUBL RELATIONS .5 S.H.**

**MAPR 01546: Contemporary Rhetoric 3 S.H.**

Contemporary Rhetoric introduces students to rhetorical theory and its applications. Students will be exposed to a brief history of rhetorical thought, the contributions of major theorists and movements, the practical implications of rhetorical theory, and the ways in which different groups use rhetoric. Contemporary perspectives on rhetoric will be emphasized. In addition to responses to theoretical works, students will produce an analysis of a text or texts from their own area of interest, investigating the application of rhetorical theories in a variety of environments.

**MAPR 01547: Techniques in Communication 3 S.H.**

This course consists of five writing modules with varying credits: MAPR01.506-Newswriting, 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 01549: PLANNING INTEGRATED MKTG COMM 3 S.H.**

**MAPR 01550: Introduction to 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: Public Relations 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.

**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: ADV TECHNIQUES COMMUNICATION 3 S.H.**

**MAPR 01562: INTEG MKT COM (IMC) ONLINE OVR 3 S.H.**

**MAPR 01563: RSRCH, MESSAG & AUD ONLINE ANA 3 S.H.**

**MAPR 01564: PERSUAS WRIT INTGRTD MKT COMM 3 S.H.**

**MAPR 01565: IMC 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 01572: SP TP PUBLIC RELATIONS 3 S.H.**

**MAPR 01575: INDEP STDY-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: Seminar in Public Relations 3 to 6 S.H.**

Each student will be required to develop a major communication project or thesis on any phase of educational or corporate communications. The project or thesis will display appropriate research procedures and skill in communications. Some seminar sessions will be used to provide additional communications 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, Techniques of Communication, and Communications Research.

**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 06510: Special Topics in Public Relations 3 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 06516: Global Public Relations .5 S.H.**

In the era of global commerce and the World Wide Web, this course looks at how organizations communicate their messages around the world effectively, efficiently and consistently. Students will study current examples of how global organizations, both large and small, deal with differences in language and culture when operating on a global stage.

**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 98504: School Public Relations Workshop 3 S.H.**

Emphasis is placed on school communications and public relations ideas that can be effectively used in various education institutions. Guest experts join workshop directors in offering public relations techniques and situations. Practical experiences that help prepare the student to handle public relations responsibilities are part of the workshop. May be offered during the summer or on some Saturdays during the regular semesters.

**MAPR 98505: ELECT MEDIA ED PUBL REL 3 S.H.**

**MAPR 99521: How Media Affect Us 3 S.H.**

Addressed in this course will be the effect the mass media have on companies, businesses, and organizations and the development of practical strategies of working with the media. The press, radio, TV, magazines, and books will be reviewed from the perspective of their impact on organizations.

**MAPR 99522: How Opinions and Attitudes are Formed and Changed: Persuasion Techniques 1 S.H.**

Students will study the difference between an attitude and opinion, the roots of opinions, the intensity, stability, and form of an opinion, the role of opinion leaders, and the nature of propaganda. Persuasive techniques of working with informed, educated, uneducated, uninformed, and hostile audiences will be covered.

**MAPR 99523: POLLS & SURVEYS 1 S.H.**

**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 01501: FOUND OF MATH 3 S.H.**

**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.

**MATH 01517: ENGINEER PROB & STAT** **3 S.H.**

**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.

**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 03510: MATHEMATICAL MOD/ALGEBR RSN** **3 S.H.**

**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 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.

**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.

**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: Advanced Feature Writing for Print Media** **3 S.H.**

Students in this graduate level writing workshop will report and write eight publishable-quality features on varied topics. They will learn how to write feature leads and 'nut grafs' and how to structure long stories. They will also learn how to develop and present story ideas to editors and how to submit 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.

**MAWR 01559: Core II: Research Methods for Writers** **3 S.H.**

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.**

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 thesis or project requirement for graduation and all students are expected to complete a written prospectus and begin the preliminary stages of their thesis or project.

**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 a literary journal (Asphodel). Students will study other successful journals and the basic reference guides to determine the criteria for success. Working with the instructor and various section editors, students will evaluate submissions; communicate with contributors, participate in soliciting submissions, distribute the journal and involve themselves with aspects of layout and design. They will be exposed to matters of budget and funding as well. Because the syllabus complies with the Asphodel publishing process, contact hours are distributed over two semesters.

**MAWR 01571: Seminar II**

**3 S.H.**

Seminar II prepares students to complete the required thesis or project to receive the Master's degree in Writing. Students will develop their thesis or project from the prospectus created in Seminar I, select an Academic Thesis Advisor, and write the rough drafts of the first three installments of their thesis or project under the guidance of the Graduate Program Coordinator. Students will then work with their Academic Thesis Advisor to revise and polish their thesis or project to present to the faculty and students in a symposium format.

**MAWR 01615: INDEPENDENT STUDY**

**3 S.H.**

**MAWR 01618: Special Topics**

**3 to 6 S.H.**

**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.

**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.

**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.

**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 the Nonfiction Book**

**3 S.H.**

Writing 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.

**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 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.

- 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 10509: Mechanical Analysis of Machine Design 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.**  
 In this course, the 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 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 serves as an overview of the techniques used to solve problems in fluid mechanics on computers and describes in detail those most often used in practice. Included are advanced techniques in computational fluid dynamics, like direct and large-eddy simulation of turbulence, multigrid methods, parallel computing, moving grids, structured, block-structured and unstructured boundary-fitted grids, free surface flows. The issues of numerical accuracy, estimation and reduction of numerical errors are treated in detail with many examples. An independent research project will be required on an advanced topic of mutual interest between the student and the instructor.



**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 10575: Fund Crash Safety Engineering 3 S.H.**

This course presents the design and analytical principles of passenger vehicle crashworthiness engineering. The course will encompass three major focus areas: the crash response of (1) the vehicle structure, (2) the occupant, and (3) the occupant restraints. Topics will include the analysis of crash tests, vehicle crash kinematics, vehicle modeling, the biomechanics of impact injury, the dynamic response of vehicle occupants to crash loading, and advanced restraint design.

**MGT 01510: PROF, LEGAL, MGRL RESPONSIBIL 3 S.H.**

**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.**

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 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 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 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 06600: BUS POL/STRATEGY 3 S.H.**

**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.

**MGT 06629: Managing Organizational Strategy 3 S.H.**

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 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: Business Forecasting 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.

**MIS 02500: Issues in Management Information Systems 3 S.H.**

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 02515: Electronic Commerce 3 S.H.**

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 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 02599: Special Topics in Management Information Systems 3 S.H.**

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 09500: Marketing Management 3 S.H.**

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.
- MKT 09503: Marketing Communication and Promotion** 3 S.H.
- MKT 09599: Special Topics in Marketing** 3 S.H.  
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.
- MUS 04500: Applied Major 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 04501: Applied Major 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 04502: Applied Major 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 04503: Applied Major 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 04504: Advanced Woodwind, Brass-Percussion, Strings, Piano** 2 S.H.  
These courses are intended to develop skills in performance on the various instruments beyond the undergraduate level. Particular emphasis will be placed on the teaching of these instruments and on the latest developments in methodology and pedagogy.

**MUS 04505: Advanced Woodwind, Brass-Percussion, Strings, Piano 2 S.H.**

These courses are intended to develop skills in performance on the various instruments beyond the undergraduate level. Particular emphasis will be placed on the teaching of these instruments and on the latest developments in methodology and pedagogy.

**MUS 04506: Advanced Woodwind, Brass-Percussion, Strings, Piano 2 S.H.**

These courses are intended to develop skills in performance on the various instruments beyond the undergraduate level. Particular emphasis will be placed on the teaching of these instruments and on the latest developments in methodology and pedagogy.

**MUS 04507: Advanced Woodwind, Brass-Percussion, Strings, Piano 2 S.H.**

These courses are intended to develop skills in performance on the various instruments beyond the undergraduate level. Particular emphasis will be placed on the teaching of these instruments and on the latest developments in methodology and pedagogy.

**MUS 04508: Instrumental Procedures 2 S.H.**

Designed as a laboratory course for instrumental instructor in organization of rehearsal techniques and instrumental problems in the elementary, secondary, and junior college curricula.

**MUS 04510: Applied Major Voice I 2 S.H.**

Private instruction in techniques of singing. Designed to guide the development of students toward the realization of his fullest potential as performers.

**MUS 04511: Applied Major Voice II 2 S.H.**

Private instruction in techniques of singing. Designed to guide the development of students toward the realization of his fullest potential as performers.

**MUS 04512: Applied Major Voice III 2 S.H.**

Private instruction in techniques of singing. Designed to guide the development of students toward the realization of his fullest potential as performers.

**MUS 04513: Applied Major Voice IV 2 S.H.**

Private instruction in techniques of singing. Designed to guide the development of students toward the realization of his fullest potential as performers.

**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 04515: Graduate Applied Voice I 4 to 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.

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- MUS 04516: Graduate Applied Voice II** 4 to 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 04517: GRAD APP INST:BASS** 2 to 6 S.H.
- MUS 04518: GRAD APP INST:BASSOON** 2 to 6 S.H.
- MUS 04519: GRAD APP INST:CELLO** 2 to 6 S.H.
- MUS 04520: Applied Major Conducting I** 4 to 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.
- MUS 04521: Applied Major Conducting II** 4 to 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.
- MUS 04522: Applied Major Conducting III** 4 to 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. During semester III 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.
- MUS 04523: Applied Major Conducting IV** 4 to 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. 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 04524: Conducting I (Instrumental)** 2 S.H.  
Full scores for major orchestral and concert band works are studied in the class. Baton technique required to interpret these works is demonstrated and practiced.
- MUS 04525: Conducting II (Vocal)** 2 S.H.  
In this class emphasis is placed on choral rehearsal techniques and procedures as they apply to vocal music organizations.
- MUS 04526: Applied Music Instrumental I** 4 to 6 S.H.  
Private instruction on an instrument or in conducting, preparing the student for performance of a successful public graduate recital.
- MUS 04527: Applied Music Instrumental II** 4 to 6 S.H.  
Private instruction on an instrument or in conducting, preparing the student for performance of a successful public graduate recital.

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**MUS 04528: Applied Music Instrumental III 4 to 6 S.H.**

Private instruction on an instrument or in conducting, preparing the student for performance of a successful public graduate recital.

**MUS 04529: Applied Music Instrumental IV 4 to 6 S.H.**

Private instruction on an instrument or in conducting, preparing the student for performance of a successful public graduate recital.

**MUS 04530: Applied Major Composition I 2 S.H.**

Private instruction in composition. Designed to guide the development of students toward the realization of their creative talents in the writing of musical compositions.

**MUS 04531: Applied Major Composition II 2 S.H.**

Private instruction in composition. Designed to guide the development of students toward the realization of their creative talents in the writing of musical compositions.

**MUS 04532: Applied Major Composition III 2 S.H.**

Private instruction in composition. Designed to guide the development of students toward the realization of their creative talents in the writing of musical compositions.

**MUS 04533: Applied Major Composition IV 2 S.H.**

Private instruction in composition. Designed to guide the development of students toward the realization of their creative talents in the writing of musical compositions.

**MUS 04534: Graduate Music Composition I 4 to 6 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 04535: Graduate Music Composition II 4 to 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 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 04538: GRAD APP INST:CLARINET 2 to 6 S.H.**

**MUS 04539: GRAD APP INST:EUPHONIUM 2 to 6 S.H.**

**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 04542: GRAD APP INST:FLUTE 2 to 6 S.H.**

**MUS 04543: GRAD APP INST:FRENCH HORN 2 to 6 S.H.**

**MUS 04544: CHORAL PROCEDURES 2 S.H.**

**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 04547: MUSIC & RELATED ARTS 3 S.H.**

**MUS 04548: GRAD APP INST:GUITAR 2 to 6 S.H.**

**MUS 04549: GRAD APP INST:HARP 2 to 6 S.H.**

**MUS 04550: INSTRUMENTAL PROCED 2 S.H.**

**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 04552: Piano Accompanying II 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 04553: Guitar Accompanying I 1 S.H.**

This course in applied guitar accompanying will pair the student with a vocal or instrumental student under the supervision of the guitar instructor. Students will learn to interact musically with the soloist and to begin to know the collaborative literature for guitar and other instruments.

## Course Descriptions

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**MUS 04554: GUITAR ACCOMPANYING II 1 S.H.**

**MUS 04555: Counterpoint 3 S.H.**

The principles of counterpoint and its practical application in musical literature are studied.

**MUS 04556: INDEPENDENT STUDY 1 to 4 S.H.**

**MUS 04557: Advanced Orchestration 2 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 04558: ADV VOCAL ARRANG 2 S.H.**

**MUS 04559: GRAD APP INST:OBOE 2 to 6 S.H.**

**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 04563: GRAD APP INST:ORGAN 2 to 6 S.H.**

**MUS 04564: GRAD APP INST:PERCUSSION 2 to 6 S.H.**

**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.

**MUS 04566: GRAD APP INST:PIANO 2 to 6 S.H.**

**MUS 04567: GRAD APP INST:SAXOPHONE 2 to 6 S.H.**

**MUS 04568: GRAD APP INST:TROMBONE 2 to 6 S.H.**

Course Descriptions

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- MUS 04569: GRAD APP INST:TRUMPET** 2 to 6 S.H.
- 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 04571: GRAD APP INST:TUBA** 2 to 6 S.H.
- MUS 04572: GRAD APP INST:VIOLA** 2 to 6 S.H.
- MUS 04573: GRAD APP INST:VIOLIN** 2 to 6 S.H.
- MUS 04574: GRAD APP INST:JAZZ PIANO** 2 to 6 S.H.
- 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 04576: GRAD ENS: CONCERT CHOIR** 1 S.H.
- MUS 04577: GRAD ENS:JAZZ BAND** 1 S.H.
- MUS 04578: GRAD ENS:LAB BAND** 1 S.H.
- MUS 04579: GRAD ENS:ORCHESTRA** 1 S.H.
- MUS 04580: GRAD ENS:WIND ENSEMBLE** 1 S.H.
- MUS 04585: GRAD APPLIED VOICE** 2 to 6 S.H.
- 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 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 06508: INSTRMNTL PROCEDURES 2 S.H.**

**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.

**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 06515: Organ Literature 3 S.H.**

The course will present the vast literature for the organ, a history of the instrument, and a performance context for the repertoire reviewed. Students will study and analyze the monuments of the organ repertoire from the 14th century to the present. They will choose and deeply explore at least one area of the repertoire and present written documents about their chosen area.

**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.**

**NURS 03503: Nursing Research 4 S.H.**

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 03504: Advanced Pathophysiology 3 S.H.**

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 03505: Clinical Pharmacology 3 S.H.**

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.

**PHED 35520: DEVEL/REMEDIAL PE 2 S.H.**

**PHED 35521: Physiology of Exercise 3 S.H.**

This course involves the study of the interrelationship of exercise and physiology. It covers the functions of the human body under the stress of activity. Research in exercise physiology will be related to practices in physical education and athletics.

**PHED 35530: Principles of Coaching 3 to 16 S.H.**

The course is designed for coaches of sport in educational systems. Its purpose is to examine relationships between institutional organizations, sport, student growth and community expectations. Management behaviors and administrative practices connected to both sport and education are studied. Practical application of group dynamics and public media involvement are skills experienced in this course.

**PHED 35535: INDEPENDENT STUDY 3 S.H.**

**PHED 35540: CURR ADV HEALTH SCI 2 S.H.**

**PHED 35550: TRENDS SCH/COMM REC 3 S.H.**

**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 35560: Administration of School Athletics 3 S.H.**

Devoted to intramural as well as interscholastic athletic programs. Legal aspects of athletic administration are determined. Budgeting, planning, scheduling, purchasing and caring for equipment, publicity, insurance and other related aspects are studied. Students study the decision-making process in the athletic program as it relates to other institutional programs and policies.

**PHED 35570: Planning Construction and Maintenance of Facilities for Health and Physical Education 3 S.H.**

Designed to identify the problems in planning, building, and maintaining facilities in Health, Physical Education and Recreation. Blue print reading and block planning will involve practical experiences. Field trips, when possible, to local facilities will be taken. Surface lighting and equipment for facilities will be explored.

**PHED 35590: Critical Readings, Issues, and Trends in Health and Physical Education 3 S.H.**

Students review and evaluate current professional literature in health and physical education publications. Library research skills are developed while examining critical issues and current trends in health and physical education.

**PHED 35591: Foundations and Interpretation of Health and Physical Education 3 S.H.**

A course designed to examine influences of educational philosophies upon the place and function of health and physical education in American education.

**PHED 35592: Curriculum Construction in Health and Physical Education 3 S.H.**

The student moves from an understanding of curriculum foundations and theory to application of design, organization and evaluation. The process should culminate in the ability to produce effective kindergarten through twelfth grade health and physical education curricula in school or community educational settings.

**PHED 35595: Research Design in Health and Physical Education 3 S.H.**

Students investigate research procedures and design in health and physical education. Literature review techniques, experimental and non-experimental research design, subject selection and assignment, and ethical issues in conducting research are areas studied.

**PHED 35598: Quantitative Analysis in Health and Physical Education 3 S.H.**

Students investigate the application of statistical procedures in research processes in health and physical education. Descriptive and inferential statistics are included. The students use microcomputer statistical packages for data reduction and analysis.

**PHED 35600: Research Seminar I in Health and Physical Education 3 S.H.**

Students will select a scholarly project or thesis. The course will include the content, organization and procedures of empirical investigative writing.

**PHED 35601: Research Seminar II in Health and Physical Education 3 S.H.**

For the thesis student only. The course will involve the completion of the graduate thesis.

**PHED 36530: TRENDS SCH/COMM SAFE 2 S.H.**

**PHED 36551: PROB & AD OF CAMPING 2 S.H.**

**PHIL 09508: HIST/PHILOS SCIENCE 3 S.H.**

**PHSC 01500: GLASSBLOWING 1 S.H.**

**PHSC 01532: PHYS SCI ACTIV FOR TEACHERS 3 S.H.**

**PHSC 01599: INDEPENDENT STUDY 3 S.H.**

**PHYS 02525: Mathematical Methods in Physics 3 S.H.**

The following topics are studied as they apply to the solution of problems in physics: infinite series, complex numbers, determinants and matrices, partial differentiation, vector analysis and calculus, and Fourier series. The requirements of this course also include independent study of topics not discussed in class. The student will be expected to turn in a paper demonstrating his ability to solve problems in two or more of the following topics: calculus of variations, gamma and beta functions, coordinate transformations and tensor analysis, coordinate transformations and tensor analysis, functions of a complex variable, series solutions of differential equations, integral transforms, and partial differential equations. Admission to the course will be at the discretion of the graduate advisor.

**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.

**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 adviser. This course may not be offered annually.

**PHYS 02559: Light** **4 S.H.**

Geometrical and physical optics are treated. Study is made of reflection, refraction, lenses (thin and thick) and systems of lenses. Consideration is given to dispersion, diffraction, interference and polarization. The use of these effects in spectroscopy and polarimetry is emphasized. 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.

**PHYS 02561: Electronics** **4 S.H.**

A basic course in the theory of generation and detection of electromagnetic waves leading to a study of vacuum tubes, rectifiers, amplifiers, oscillators, oscilloscopes, electronic switches and wave generators. 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.

**PHYS 02563: Atomic Physics** **4 S.H.**

Considers the molecular structure of matter and the structure of the atom. Studies the kinetic theory of gases, the photoelectric effect, x-rays and their properties, the wave properties of matter, the Bohr model of the atom and the excitation states of the atom. 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.

**PHYS 02572: TOPICS ADV PHYSICS** **4 S.H.**

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**PHYS 02599: INDEP STUDY PHYS SCI 3 S.H.**

**PHYS 08500: INDEP STUDY CHEM 3 S.H.**

**PHYS 08545: Quantitative Mechanics 3 S.H.**

Course includes basic concepts of quantitative mechanics including orbitals, perturbation and variation theory; rotational and vibrational motion; and spectroscopy. This course may not be offered annually.

**PHYS 08550: Thermodynamics I 3 S.H.**

Advanced concepts in chemical thermodynamics including an introduction to statistical mechanics are considered. The requirements of this course include a graduate research paper. Admission to the course will be at the discretion of the graduate adviser. This course may not be offered annually.

**POSC 07503: WORLD COMMUNITY 3 S.H.**

**POSC 07513: CONTEMP POLIT THOUGHT 3 S.H.**

**POSC 07520: CIVIL RIGHTS/LIBRTES 3 S.H.**

**POSC 07558: GOV/POL SOVIET UNION 3 S.H.**

**POSC 07561: POLITICS SO ASIA 3 S.H.**

**POSC 07565: SOVIET FOREIGN POL 3 S.H.**

**PSY 01501: IND STUDY PSYCH 3 to 6 S.H.**

**PSY 01560: Research Designs in Applied Psychology I 3 S.H.**

This is a graduate level introduction to research methods and statistical procedures commonly used in psychological research. Students will develop skills necessary to critically evaluate and interpret both research designs and statistical methods, thus allowing them to develop their own research, while at the same time becoming better consumers of research. This course focuses on ethical issues surrounding the use of human and animal participants, the appropriate use and interpretation of descriptive and inferential statistics, and an understanding of the statistics used in correlational research based on the general linear model.

**PSY 01562: Research Designs in Applied Psychology II 3 S.H.**

This is a graduate level introduction to research methods and statistical procedures commonly used in experimental psychological research. Students will develop skills necessary to critically evaluate and interpret both research designs and statistical methods, thus allowing them to develop their own research while becoming better consumers of research. Students will learn how to present their own research. The fundamental principles, practices and applications of needs assessment and program evaluation are also covered in this course.

**PSY 01564: Counseling Theory and Techniques I 3 S.H.**

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.**

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.**

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.**

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 01594: PSYCH OF PERSONALITY 3 S.H.**

**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.

**PSY 01611: Counseling and Psychotherapy 3 S.H.**

This course will provide the student with an understanding of fundamental skills, principles and theories of counseling. Issues addressed will include characteristics and behaviors of the client and counselor that influence the helping process. The application of counseling approaches across diverse contexts and populations will be covered.

**PSY 01612: Group Counseling and Psychotherapy 3 S.H.**

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.**

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 01620: Legal, Ethical, & Professional Issues in Counseling Psychology 3 S.H.**

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 01621: Psychopathology 3 S.H.**

Advanced study of the major forms of psychological disorders. Emphasis is placed on the dynamics leading to these disorders and the psychological treatment of them. Field trips to psychiatric institutions may be included.

**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.**

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.**

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.

**PSY 01660: PRACT IN APP BEHAV ANALYSIS 3 S.H.**

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 01685: Masters Thesis in Psychology I 3 S.H.**

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: Masters Thesis in Psychology II 3 S.H.**

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 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.**

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 02610: APPLIED BEHAVIOR ANALYSIS 3 S.H.**

**PSY 02620: Behavioral Assessment & Functional Analysis 3 S.H.**

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 02622: PERCEPTION 3 S.H.**

**PSY 02660: Research Project in Applied Behavior Analysis 3 S.H.**

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 02.510) and with close instructor consultation to fully design and implement an empirical single-subject research study that will culminate in a formal research paper and presentation. This is a required course for the Master's of Arts program in Applied Behavior Analysis.

**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 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 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 05623: Social Psychology 3 S.H.**

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 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 06532: TESTS & MEASUREMENTS 3 S.H.**

**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 06540: Psychological Concepts in Human Computer Interaction 3 S.H.**

This course will explore insights from cognitive psychology, learning theory, clinical psychology, social psychology, human factors, industrial/organizational psychology, and educational psychology to enhance the integration of computers into both workplaces and schools. This course addresses the new social concerns brought about from the expected fit of the human-computer interface both from the perspective of individual adjustment and social process.

**PSY 06621: ABNORMAL PSYCH 3 S.H.**

**PSY 06625: Assessment I: Psychometrics, Evaluation, & Treatment Planning 3 S.H.**

**PSY 06626: Assessment II: Assessment of Career/Vocational Interests, Treatments, & Programs 3 S.H.**

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.

**PSY 06627: Individual Psychodiagnostics I 3 S.H.**

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.

**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 06629: Individual Psychodiagnostics III 3 S.H.**

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.

**PSY 06630: Individual Psychodiagnostics IV 3 S.H.**

Concerned primarily with the Rorschach Test in terms of basic theory and research related to it. Emphasis will be placed upon developing skills of administration, scoring and interpretation with the Rorschach.

**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 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.

**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 09587: Adolescent Psychology 3 S.H.**

This course is designed to help those college graduates who are preparing to become secondary school teachers to understand the behaviors, goals, motivations and drives of the students with whom they will be working. The unique characteristics of this age group will be treated in some detail.

**PSY 09589: Psychology of Human Relationships 3 S.H.**

The course focus is on the organization and effective use of processes involved in personal and interpersonal relationships.

**PSY 09594: Psychology of Personality 3 S.H.**

This course studies the current theories of personality. Attention is given to the physical, social, and psychological factors which influence personality development.

**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 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 10625: Physiological Psychology 3 S.H.**

Course includes molecular and molar studies of the nervous system; control centers of emotion and consciousness; biochemical changes in the nervous system due to drugs, disease, chemicals, nutrition, radiation, electrical shock, psychosomatic factors, accidents and injuries. In-depth study of one interest area and experiences in laboratory instrumentation in physiology of learning.

**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.

**PSY 22510: Theories of Learning 3 S.H.**

The focus of this course is on the major psychological theories of learning and is designed for students preparing for career or presently in educational settings, as teacher and/or administrators. Both cognitive and behavioral approaches will be discussed. The contribution of learning theory in various theories of instructions will also be discussed.

**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 22530: Consultation and Clinical Services Practicum 4 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.

**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.**

**PSY 22623: COLLOQUIUM SCH PSYCH 3 S.H.**

**PSY 22634: Colloquium in School Psychology 6 S.H.**

The colloquium is a full school year externship 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.

**READ 30505: PHONICS/SPELLING/VOCAB INST 3 S.H.**

**READ 30510: TCHG ELEM READING 3 S.H.**

**READ 30515: Teaching Reading 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.

**READ 30520: Teaching Reading in Content Areas 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 30525: INDEPENDENT STUDY 1 to 6 S.H.**

**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.**

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 30550: Diagnosis of Remedial Reading Problems 3 S.H.**

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 30555: TCHNG READING ACROSS GRADES 3 S.H.**

**READ 30556: TCHG READING-SEC SCH 3 S.H.**

**READ 30558: READING SKILLS 7-12 3 S.H.**

**READ 30559: DIAG/RMDL/RDNG PROB 3 S.H.**

**READ 30560: Correction of Reading Problems 3 S.H.**

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 30565: STAFF DEVEL READING 3 S.H.**

**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 30568: SEMINAR IN READING 3 S.H.**

**READ 30570: Clinical Experiences in Reading 6 S.H.**

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.



Course Descriptions

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<b>READ 30590:</b>	<b>READING ADULT ED PRG</b>	<b>3 S.H.</b>
<b>READ 30600:</b>	<b>Seminar and Research in Reading</b>	<b>3 S.H.</b>
<p>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.</p>		
<b>READ 30601:</b>	<b>SEMINAR IN READING</b>	<b>2 S.H.</b>
<b>READ 30604:</b>	<b>READING SUPERVISION</b>	<b>3 S.H.</b>
<b>READ 30610:</b>	<b>INTERNSHIP-READING</b>	<b>6 S.H.</b>
<b>READ 30615:</b>	<b>CURR ISSUES RESEARCH</b>	<b>3 S.H.</b>
<b>READ 30620:</b>	<b>RDNG ADULT ED PROGMS</b>	<b>3 S.H.</b>
<b>READ 30628:</b>	<b>ADV RDNG DIAGNOSIS</b>	<b>3 S.H.</b>
<b>READ 30630:</b>	<b>DES/CONDUCT RDG RES</b>	<b>3 S.H.</b>
<b>READ 30663:</b>	<b>IQ TEST RELATED RDG</b>	<b>3 S.H.</b>
<b>RTF 10515:</b>	<b>SP TOPICS</b>	<b>3 to 6 S.H.</b>
<b>RUSS 06540:</b>	<b>Special Topics in Foreign Languages and Literatures</b>	<b>3 S.H.</b>
<p>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.</p>		
<b>SCPY 25501:</b>	<b>INTRO VOC EVAL SP ND</b>	<b>3 S.H.</b>
<b>SCPY 25505:</b>	<b>PROC VOC EVAL SP NDS</b>	<b>3 S.H.</b>
<b>SCPY 25516:</b>	<b>Applied Tests and Measurements</b>	<b>3 S.H.</b>
<p>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.</p>		
<b>SECD 03510:</b>	<b>CURR ECON ISSUES SEC</b>	<b>3 S.H.</b>
<b>SECD 03548:</b>	<b>SEM IN ED COMP</b>	<b>3 S.H.</b>
<b>SELN 10526:</b>	<b>ADV WKSP SPECIAL EDUCATION</b>	<b>3 S.H.</b>

**SELN 10555: CLIN ASSESS MENT RET 3 S.H.**

**SELN 10573: SOCIETY-ADULT RETARD 3 S.H.**

**SELN 10574: PRACTICUM-HANDCP 3 S.H.**

**SELN 10575: PSYCH OF HANDICAPPED 3 S.H.**

**SELN 10576: EFFECTIVE INCLUSIVE INSTRUCT 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.**

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: Administration and Supervision in Special Education 3 S.H.**

This course considers the problems in administering and supervising programs for students with disabilities between three and twenty-one years of age. Attention is given to organizing, financing and supervising such programs at federal, state and local levels.

**SELN 10579: EDUC PROGRAM MR-SEC 3 S.H.**

**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 10583: Advanced Workshop in Special Education 1 to 6 S.H.**

Instruction is provided in current issues and topics related to the field of special education which are compatible with the student's prerequisites and interest. The course can be designed to meet the in-service needs of federal and state agencies, teachers and/or local school systems. Number of credits will be determined by course content each time the course is offered. Students should consult the program adviser for specific course content and credits assigned. This course may not be offered annually.

**SELN 10584: PSYCH MENTAL RETARD 3 S.H.**

**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.

**SELN 10592: Clinical Seminar in Special Education 1 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 is also completed.

**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. Registration is by permission of the program advisor. During the Spring Semester students are required to pass a written comprehensive examination.

## Course Descriptions

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<b>SELN 10601:</b>	<b>RSRCH SEM IN SPCL ED</b>	<b>3 S.H.</b>
<b>SMED 31503:</b>	<b>TCHG ART HIST APPREC</b>	<b>3 S.H.</b>
<b>SMED 31507:</b>	<b>GRAD PROBS</b>	<b>3 S.H.</b>
<b>SMED 31560:</b>	<b>INDP STUDY</b>	<b>3 S.H.</b>
<b>SMED 31600:</b>	<b>PROJ SEM ART EDUC</b>	<b>3 S.H.</b>
<b>SMED 31601:</b>	<b>ART ED SEM II</b>	<b>3 S.H.</b>
<b>SMED 32500:</b>	<b>IND STUDY TCHG MUSIC</b>	<b>2 S.H.</b>
<b>SMED 32501:</b>	<b>General Music in the Elementary and Secondary Schools</b>	<b>3 S.H.</b>
	The philosophy, scope and sequence of the general music program for all children is related to the total school curriculum. Permission to take this course must be secured from the music department. This course is offered bi-annually.	
<b>SMED 32502:</b>	<b>Teaching of Music Theory</b>	<b>2 S.H.</b>
	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.	
<b>SMED 32503:</b>	<b>MUS THEA TECH SEC I</b>	<b>2 S.H.</b>
<b>SMED 32504:</b>	<b>MUS THEA TECH SEC II</b>	<b>2 S.H.</b>
<b>SMED 32505:</b>	<b>Selected Approaches in Music Education</b>	<b>3 S.H.</b>
	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.	
<b>SMED 32506:</b>	<b>Guitar Pedagogy</b>	<b>3 S.H.</b>
	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.	
<b>SMED 32507:</b>	<b>Piano Pedagogy</b>	<b>3 S.H.</b>
	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.	
<b>SMED 32600:</b>	<b>SEM/RESEARCH MUS ED</b>	<b>2 S.H.</b>
<b>SMED 32601:</b>	<b>SEM/RESCH MUS ED II</b>	<b>2 S.H.</b>

**SMED 33501: WKSP ELEM SCH MATH 6 S.H.**

**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.

**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.

**SMED 33504: INST COMPUTERS I 1.5 S.H.**

**SMED 33505: INST COMPUTERS II 1.5 S.H.**

**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 33528: USE OF D/B SYS IN ED 3 S.H.**

**SMED 33555: WKSP COMP SCI ED 0 to 16 S.H.**

**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.

**SMED 34505: MARINE SCI EDUC 4 S.H.**

**SMED 34514: MARINE SCIENCE EDUC 1 S.H.**

**SMED 34532: Physical Science Activities for Teachers 3 S.H.**

This course is designed to assist the elementary and middle school teacher gain a better understanding of the basic concepts in force, motion, heat, light, sound and electricity. Through intensive experiential use of science materials, the teacher will be provided an opportunity to improve skills in demonstrating and in experimenting in physical science. This course may not be offered annually.

**SMED 34600: Seminar in Science and Science Teaching I 3 S.H.**

Consideration given to assumptions and hypotheses upon which practical applications are based. Opportunity provided for advanced students to do special research on a professional problem involving any phase of science or science education.

**SMED 34601: Seminar in Science and Science Teaching II 3 S.H.**

Consideration given to assumptions and hypotheses upon which practical applications are based. Opportunity provided for advanced students to do special research on a professional problem involving any phase of science or science education.

**SMED 42502: ECON ISSUES FOR CLRM 3 S.H.**

**SMED 51508: WHSP INOV FOR LAN ED 3 S.H.**

**SMED 60500: Teaching Methods I: Subject Matter 3 S.H.**

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.**

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.

**SMED 96501: Introduction to Environmental Education 3 S.H.**

An introduction to environmental education as related to outdoor education, conservation education, and resource education is presented historically. The goals of environmental education are to: (1) examine environmental problems and alternate solutions; and (2) improve curriculum and instruction at all levels of formal and informal education. Practical, relevant applications of biology, physics, chemistry, earth sciences and the social sciences are emphasized.

**SMED 96502: Trends in Environmental Education 3 S.H.**

Emphasis in this course is centered on modern research related to environmental education. Modern and timely concerns in environmental education including exemplary local, state and federal environmental education activities and curricula are explored and demonstrated. May not be selected to meet specialization requirements for Teaching Secondary School Science or Environmental Education.

**SMED 96503: Developing Curriculum Guides and Materials for Environmental Education Programs 3 S.H.**

Techniques and procedures for the development of curriculum guides and materials for the teaching of environmental concerns via environmental education programs are the goals of this course. Emphasis will be placed upon the development of curriculum materials, by each student, that can be utilized in his professional career. The course will deal with the selection, production and utilization of audiovisual materials related to environmental education. Educational materials available from educational and commercial sources will be surveyed.

**SMED 96505: Environmental Conservation Workshop 3 S.H.**

An overview of environmental resources including water, air, energy, land, and minerals, and an identification of the problems related to the conservation of those resources is presented. The effect of population quantity, population density, life style and energy use patterns on environmental quality is examined. Local, state, national and world ecosystems are investigated. Field oriented small group projects are emphasized in addition to large group integrating seminars.

**SMED 96506: Practicum in Marine Environments 2 S.H.**

Marine, wetland, and coastal ecosystems are investigated and evaluated. Field experiences include the monitoring of biological, chemical and physical factors in marine aquatic areas. The environmental impacts of modern man on the ecology of bays, estuaries and coastal regions will be studied. The use of marine studies to improve curriculum will be emphasized.

**SMED 96507: Practicum in Woodland Environments 2 S.H.**

Forest and grassland ecosystems, their wildlife and food chains are investigated. The benefits and costs of preservation and conservation of these resources are studied. Methods of using the woodland and aquatic environments as sites and topics for improving curriculum are included. Field experiences are emphasized.

**SMED 96508: Practicum in Urban Environments 2 S.H.**

Field studies of urban, suburban, rural, and natural environments provide contrasts and comparisons of varying environmental quality. The impacts of increasing population densities on air, water, and land are observed and evaluated. The sociological, economic and psychological effects of urbanization are noted. Opportunities to use the urban environment as a medium for curriculum improvement are investigated. This course may not be offered annually.

**SMED 96509: Environmental Land Use-Resources and Recreation 3 S.H.**

Knowledge of environmental guidelines concerning the identification, planning, and use of land areas for the purposes of industrial, educational, residential and recreational endeavors will be presented in this course. Developing a procedure for determining proper land use and the means by which governments established land use practices will be stressed. Also emphasized will be society's increasing demands for educational and recreational facilities and programs and how the schools, communities and private organizations can meet these needs. Students in this course will participate directly in certain current land use problems by attending public hearings and doing related field work. This course may not be offered annually.

**SMED 96510: INDEP ST ENVIRON ED 1 S.H.**

**SMED 96515: Environmental Issues and Actions 3 S.H.**

This course focuses on environmental issues and addresses the knowledge and skills needed by instructors to successfully implement issue instruction in the classrooms and in non-formal settings. Participants will develop skills associated with issue analysis, issue investigation, information collection and processing, and citizenship participation. Relevant research will be reviewed. Additional instruction will focus on implementing issue instruction in both classroom and non-formal settings.

**SMED 96518: GP PRACT URBAN ENVIR 3 S.H.**

**SMED 96600: Seminar in Environmental Education I 3 S.H.**

This is a research, independent study course designed to give the graduate student a general knowledge of research and evaluation techniques in education and the methods and modes of curriculum development. With these skills, the student will select an M.A. thesis/project topic, review the literature on this topic, select and collect data on this topic and begin the writing of the formal "Master's Thesis/Project." Significant course time is allocated to individual conferences with the instructor and library research and data collection. It is a program objective that graduate students propose and complete a "useful and meaningful" terminal Thesis/Project that is focused on their overall career objectives.

**SMED 96601: Seminar in Environmental Education II 3 S.H.**

The second half (2nd semester) of a research, independent study course designed to give the student a general knowledge of research and evaluation techniques in education and the methods and modes of curriculum development. During the course of this semester the student will complete a thesis/project started in the previous semester and prepare it for final acceptance by the Graduate Committee and for acceptance and binding by the College Library. In compliance with the Rowan University Graduate Catalogue, a Comprehensive Examination will be given on or about the mid-term of this course. Most course time is allocated to individual conferences with the instructor and library-research time.

**SPAN 05501: STRUCTURE SPAN LANG 3 S.H.**

**SPAN 05526: SPANISH AMER NOVEL 3 S.H.**

**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.

**SPAN 05550: EVOLUTN SPAN LANG 3 S.H.**

**SPAN 05595: STUD IN SPANISH LIT 3 S.H.**

**SPAN 05599: INDEPENDENT STUDY 3 S.H.**



Course Descriptions

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<b>SPCH 15505:</b>	<b>NORM SPEECH-LANG DEV</b>	<b>3 S.H.</b>
<b>SPCH 15520:</b>	<b>LANGUAGE DISORDERS</b>	<b>3 S.H.</b>
<b>SPED 04501:</b>	<b>TECH/CASE ST SOC WKR</b>	<b>3 S.H.</b>
<b>SPED 04502:</b>	<b>CLINIC SCH SOC WKR</b>	<b>4 S.H.</b>
<b>SPED 08510:</b>	<b>SP NEEDS CAREER WKSP</b>	<b>3 S.H.</b>
<b>SPED 08515:</b>	<b>Curriculum, Instruction, and Transition in Special Education</b>	<b>3 S.H.</b>
	Students are required to proceed from the assessment of a learner to the selection of appropriate curricula and effective teaching strategies. The scope of the course will permit an analysis of the current knowledge base for effectively teaching students with mild, moderate, and severe handicaps in the areas of academics, social interactions, and employment.	
<b>SPED 08520:</b>	<b>Clinical Experiences in Special Education</b>	<b>4 S.H.</b>
	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.	
<b>SPED 08530:</b>	<b>Introduction to Vocational Education for Individuals with Special Needs</b>	<b>3 S.H.</b>
	This course provides an overview of the history, philosophy, and process of vocational evaluation, for special needs students. Vocational evaluation tools and techniques will be presented. Emphasis is placed on gaining a broad knowledge of the evaluation process and how it can be incorporated into transition planning.	
<b>SPED 08540:</b>	<b>Technology for Students With Special Needs</b>	<b>3 S.H.</b>
	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).	
<b>SPED 08545:</b>	<b>Home/School/Community Collaboration: Family Systems and Interventions</b>	<b>3 S.H.</b>
	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.	

**SPED 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.

**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.**

**SPED 08909: RESID FAC PROG HDCP 3 S.H.**

**SPED 09578: ADM/SUPVR ED HANDICP 3 S.H.**

**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 07504: Seminar in Contemporary World Theatre and Drama 3 S.H.**

From a list of selected topics, this course will investigate major trends and the work of significant playwrights, directors, designers and other theatre practitioners in the period since 1950. Particular focus will be given to topics of current concern to the theatre educator and the theatre professional. Several short papers and a major research paper are required.

**THD 07505: Independent Study in Graduate Theatre 1 to 3 S.H.**

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 07506: Scenography: Process and Product 3 S.H.**

This course studies the function of design elements within the production process. It will focus on the evolution of design ideas through the exchange of views among directors and designers and the process which turns these ideas into the physical matter used in production. The student's basic visual communication skills will be enhanced by learning essential theatrical drafting and modelmaking techniques.

**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 07510: Musical Theatre Production 3 S.H.**

Utilizing a workshop format, this course will look at musical theatre in the school, college, community theatre or little theatre setting and consider practical solutions to problems of production and staging. Focus will be on the working relationships among members of the musical theatre production team.

**THD 07511: Production/Performance Project 3 to 6 S.H.**

Permission of the department Graduate Committee is required. This activity enables students to use production work as a centerpiece for a project that associates production/performance work with writing and research. For this course, students may write, design, direct, choreograph or perform in an approved production activity on a Rowan stage. Combined with further research and writing, the project provides the student with an in-depth look at production activity in a wider context. This project may also serve as the basis for the M.A. thesis.

**THD 07515: Internship in Theatre 3 to 6 S.H.**

Permission of the department Graduate Committee is required. This credit is earned for practical experience with a theatre or theatre-related company, in an acting, directing, design/production, management or dramaturgy. In general, 3 semester hours are given for a full semester or summer in such a setting; the course may be repeated to a maximum of 6 s.h. The prospective internship and duties must be approved in advance by the department before credit can be considered.

**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 07570: On-site Theatre Study 3 S.H.**

This course offers students the opportunity to study theatre and drama at important theatrical centers in the United States or abroad, under the supervision of a faculty leader. Study includes such things as attendance at productions, discussions with theatre practitioners, tours of theatres and specialized workshops as well as investigation of the area's other important historical and cultural sites. Students will incur additional travel and program costs which vary according to study site selected. Students are required to submit a final written project. The course may be repeated under a different subtitle. This course may not be offered annually.

**THD 08510: Dance: Art in Motion 3 S.H.**

This course begins with a broad historic overview of dance as an art form. The origins and evolutions of movement within the major genres of dance ?dance in world cultures, ballet, jazz, tap, social, modern and post-modern will be addressed. Opportunities to view, discuss and participate in various elements and styles of dance will lead to an aesthetic appreciation of dance as a cultural art form. Students will also study the roles of the dancer, choreographer and audience in performance, dance in education, and careers in dance. This course may not be offered annually.

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## Faculty List

### College of Liberal Arts and Sciences

- Jam, Habib(1979) Associate Professor  
*B.A., M.A., Texas Tech University; Ph.D., Southern Illinois University*
- Markowitz, Lawrence(2009) Assistant Professor  
*B.A., State University of New York; M.A., The American University; Ph.D., University of Wisconsin*
- Mukhoti, Bela(1974) Professor  
*B.A., M.A., Calcutta University, India; Ph.D., London School of Economics*
- Reaves, Natalie D.(1998) Associate Professor  
*B.S., Rutgers University; M.S., University of North Carolina; Ph.D., Wayne State University*
- Tashiro, Sanae(2005) Assistant Professor  
*B.A., M.A., California State University at Los Angeles; Ph.D., Claremont Graduate University*

### Department of Accounting and Finance

- Bao, Da-Hsien(1995) Professor  
*B.S., Fu Jen Catholic University; M.B.A., Ph.D., University of Southern California*
- Chen, Hanmei(2008) Assistant Professor  
*B.S., M.S., Tsinghua University; Ph.D., Arizona State University*
- Chung, Shifei(1997) Associate Professor  
*B.S., National Taiwan University; M.S., University of Wisconsin-Madison; CPA; Ph.D., University of Memphis*
- Hughes, Diane(1987) Associate Professor  
*B.A., Rutgers College; M.B.A., Long Island University; J.D., Rutgers University*
- Isik, Ihsan(2001) Professor  
*B.S., Middle East Technical University; M.S., Texas Tech University, M.A., Ph.D., University of New Orleans*
- Kyj, Larissa(1992) Professor  
*B.A., Fordham; M.A., Ph.D., Columbia University; CPA; CMA*
- Marmon, Richard(1986) Associate Professor  
*B.S., Glassboro State College (Rowan); M.B.A., LaSalle University; J.D., Widener University; CPA; CMA*
- Meric, Gulser(1987) Professor  
*B.A., Ankara University; M.S., Ph.D., Lehigh University*
- Pritchard, Robert(1971) Professor  
*B.S., M.B.A., Drexel University; M.A., Ed.D., University of Pennsylvania*
- Romeo, George(1979) Professor  
*B.S., Rider College; M.S., Loyola College; Ph.D., Drexel University; CPA*
- Wang, Jia(2007) Assistant Professor  
*B.S., Tsinghua University; M.S., Ph.D., University of Massachusetts-Amherst*

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Faculty List

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- Weidman, Stephanie M.(1995) Associate Professor  
*B.S., University of Delaware; M.B.A., Duke; Ph.D., Drexel University; CMA*
- Welsh, Carol(1983) Associate Professor  
*B.S., M.B.A., Drexel University; Ed.D., University of Delaware; CPA, CIA*
- Zhang, Mei(2009) Assistant Professor  
*B.A., M.S., Tsinghua University-China; Ph.D., University of Maryland*

### Department of Art

- Adams, Markham Keith(2006) Assistant Professor  
*B.A., Barry University; M.A., New York University; M.F.A., Rutgers University, Mason Gross School of the Arts*
- Adelson, Fred(1974) Professor  
*B.A., Univ. of Massachusetts; M.A., M.Phil., Ph.D., Columbia University*
- Appelson, Herbert(1967) Professor  
*B.A., Brooklyn College; M.S., M.F.A., Univ. of Wisconsin; Ed.D., Columbia University*
- Bendtsen, Tom(2008) Assistant Professor  
*B.A., Ontario College of Art; M.F.A., SUNY @ Buffalo N.Y.*
- Bowman, Susan(2002) Associate Professor  
*B.F.A., San Francisco Art Institute; M.F.A., Rutgers University, Mason Gross School of the Arts, M.P.S. Pratt Institute*
- Chard, Daniel(1968) Professor  
*B.F.A., Univ. of South Dakota; M.A., Northern State College; Ed.D., Columbia University*
- Conradi, Janet(2009) Assistant Professor  
*B.A., M.A., Iowa State University*
- Gower, Jill K. Baker(2007) Assistant Professor  
*B.S., University of Wisconsin; M.F.A., Arizona State University*
- Graziano, Jane E.(1999) Associate Professor  
*B.S., University of Illinois; M.A., Rowan College; Ed.D., Teachers College, Columbia University*
- Hottle, Andrew D.(2004) Assistant Professor  
*B.A., M.A., Ohio State University; Ph.D., Temple University Tyler School of the Arts*
- Ohanian, Nancy L.(1992) Professor  
*B.F.A., Layton School of Art and Design; M.F.A., Pratt Institute*
- Thomas, Skeffington N.(1997) Professor  
*B.A., Lewis and Clark College; M.F.A., Southern Illinois University*
- Thwing, Jennie E.(2006) Assistant Professor  
*B.F.A., Tyler School of Art; M.F.A., University of Maryland*

### Department of Biological Sciences

- Crumrine, Patrick(2006) Assistant Professor  
*B.S., Plattsburgh State University; Ph.D., University of Kentucky*

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Faculty List

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Farish, Donald J.(1998) <i>B.Sc., University of British Columbia; M.S., North Carolina State University; Ph.D., Harvard University; J.D., University of Missouri</i>	Professor
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>	Associate Professor
Hough, Gerald(2003) <i>B.S., Purdue University; M.S., Ph.D., The Ohio State University</i>	Assistant Professor
Iftode, Cristina(2001) <i>B.S., M.S., University of Bucharest; M.S., Ph.D., New York University-Medical Center</i>	Associate Professor
Krufka, Alison(2003) <i>B.S., College of William and Mary; Ph.D., University of Wisconsin-Madison</i>	Assistant Professor
O'Brien, Terry(2000) <i>B.S., M.S., University of Iowa; Ph.D. University of California - Berkeley</i>	Associate Professor
Richmond, Courtney E.(2001) <i>B.A., Swarthmore College; Ph.D., University of South Carolina</i>	Associate Professor
Tahamont, Maria(1993) <i>B.A., Rowan University; M.S.Ed., Southern Illinois University; Ph.D., Southern Illinois University</i>	Professor
Wilson, Virginia(2006) <i>B.S.N., University of Hawaii; M.S.N., Widener University</i>	Assistant Professor

### **Department of Chemical Engineering**

Dahm, Kevin D.(1999) <i>B.S., Worcester Polytechnic; Ph.D., Massachusetts Institute of Technology</i>	Associate Professor
Dorland, Dianne(2000) <i>B.S., M.S., South Dakota School of Mines and Technology; Ph.D., West Virginia University</i>	Professor
Farrell, Stephanie(1998) <i>B.S., University of Pennsylvania; M.S., Stevens Institute of Technology; Ph.D., New Jersey Institute of Technology</i>	Associate 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
Newell, James(1998) <i>B.S., Carnegie-Mellon University; M.S., Penn State University; Ph.D., Clemson University</i>	Professor
Savelski, Mariano J.(1999) <i>B.S., University of Buenos Aires; M.S., University of Tulsa; Ph.D., University of Oklahoma</i>	Associate Professor

Slater, C. Stewart(1995) Professor  
*B.S., M.S., M. Ph., Ph.D., Rutgers University*

### Department of Chemistry and Biochemistry

Caputo, Greg(2007) Assistant Professor  
*B.S., Steven's Institute; Ph.D., Stony Brook University*

Jonalaggada, Subash(2008) Assistant Professor  
*B.Sc., Pondicherry University; M.Sc., University of Hyderabad; Ph.D., Purdue University*

Kuciauskas, Darius(2006) Assistant Professor  
*B.S., Vilnius University; Ph.D., Arizona State University*

Mugweru, Amos(2006) Assistant Professor  
*B.S., Jomo Kenyatta University of Agriculture and Technology; Ph.D., University of Connecticut*

Newland, Robert(1983) Professor  
*B.A., Kalamazoo College; Ph.D., Wayne State University*

Ramanujachary, Kandalam V.(1994) Professor  
*B.S., Andhra University; M.S., Andhra University; Ph.D., Indian Institute of Technology*

Yang, Catherine(1995) Professor  
*B.S., Zhejiang University; M.S., Ph.D., Tufts University*

Yu, Lei(2008) Assistant Professor  
*B.S., Jilin University; M.S., Jilin University; Ph.D., Changchun Institute of Applied Chemistry*

### Department of Civil and Environmental Engineering

Cleary, Douglas B.(1998) Associate Professor  
*B.S., M.S., Ph.D., Purdue University*

Dusseau, Ralph A.(1995) Professor  
*B.S., M.S., Ph.D., Michigan State University*

Everett, Jess W.(1998) Professor  
*B.S., M.S., Ph.D., Duke University*

Jahan, Kauser(1996) Professor  
*B.S., Engineering University, Bangladesh; M.S., University of Arkansas; Ph.D., University of Minnesota*

Mehta, Yusuf A.(2001) Associate Professor  
*B.S., University of Bombay, India; M.S., University of Oklahoma; Ph.D., Pennsylvania State University*

Orlins, Joseph J.(1999) Associate Professor  
*B.S., University of Washington; M.S., Ph.D., University of Minnesota*

Riddell, William(2004) Associate Professor  
*B.S., University of Massachusetts-Amherst; Ph.D., Cornell University*

Sukumaran, Beena(1998) Associate Professor  
*B.S., Trivandrum Engineering College, India; M.S., Auburn University; Ph.D. Purdue University*



Wyrick, Josh(2006) Assistant Professor  
*B.S., Washington University; M.E., Texas A&M University; Ph.D., Oregon State University*

### Department of Communication Studies

Albone, Kenneth(1982) Associate Professor  
*B.S. Lake Superior State College; M.A., Miami University; Ph.D., Bowling Green State*

Arnold, Lorin B.(1998) Professor  
*B.A., M.A., Ph.D., Purdue University*

Benavidez, Harriet(2000) Instructor  
*B.A., Purdue University; M.A., University of Hawaii*

Cypher, Joy M.(2000) Associate Professor  
*B.A., Loyola University, Chicago; M.A., Ph.D., Purdue University*

Haynes, Julie A.(1998) Associate Professor  
*B.A., University of Richmond; M.A., Texas A&M University; Ph.D., Pennsylvania State University*

Ikpah, Maccamas M.(1994) Associate Professor  
*B.A., Eastern Washington University; M.E., Gonzaga University; Ed.D., Oklahoma State University*

Popa, Clara(2004) Associate Professor  
*B.A., University of Bucharest; M.A., Ph.D., Kent State University*

Schowalter, Daniel F.(2002) Associate Professor  
*B.S., University of Wisconsin-Stevens Point; M.A., University of Arkansas; Ph.D., Indiana University*

Simone, Maria(2004) Associate Professor  
*B.S., Richard Stockton College; M.S., University of North Texas; Ph.D., Temple University*

Streb, Edward(1979) Professor  
*B.S., M.A., Ph.D., Northwestern University*

### Department of Computer Science

Amer, Khaled(1983) Assistant Professor  
*B.S., Cairo University.; M.S., Concordia University.; M.S., Ph.D., University of Waterloo.*

Baliga, Ganesh R.(1993) Professor  
*B. Tech., M. Tech., Indian Institute of Technology (Bombay); M.S., Ph.D., University of Delaware*

Bergmann, Seth D.(1980) Associate Professor  
*B.S., Rensselaer Polytechnic Institute; M.S.E., University of Pennsylvania.*

Crichlow, Joel M.(2001) Associate Professor  
*B.A., University of Guyana, M.Sc, Ph.D., University of the West Indies*

Hartley, Stephen J.(2000) Associate Professor  
*B.A., Washington College, M.S., Ph.D. University of Virginia*

Hnatyshin, Vasil Y.(2003) Associate Professor  
*B.S., Widener University; M.S., Ph.D., University of Delaware*

Hristescu, Gabriela(2000) Associate Professor  
*B.S.E., Polytechnic Institute of Bucharest (Romania); M.S., Ph.D., Rutgers University.*

## Faculty List

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Kay, Jennifer S.(1998) <i>B.A., B.S.E., University of Pennsylvania; M.S., Ph.D., Carnegie Mellon University</i>	Associate Professor
Lobo, Andrea F.(1997) <i>B.S., Universidad de Costa Rica; M.S., Ph.D., University of Delaware</i>	Professor
Provine, Darren F.(2000) <i>B.S., University of Maryland-College Park, M.A., Rowan University</i>	Instructor
Robinson, John H.(1997) <i>B.S., Rowan University; M.S., New Jersey Institute of Technology; Ed.D., Rowan University</i>	Instructor/Unix System Administrator
Rusu, Adrian S.(2003) <i>B.S., M.S., University of Craiova, Romania; M.S., Ph.D., University of Buffalo</i>	Associate Professor
Spencer, Jerome(1997) <i>M.B.A., Cornell University</i>	Instructor
Sypniewski, Bernard Paul(1998) <i>J.D., Seton Hall</i>	Assistant Professor
Tinkham, Nancy Lynn(1990) <i>B.S., Wheaton College (Illinois); Ph.D., Duke University</i>	Assistant Professor
Weiss, Leigh(1968) <i>B.S., M.S., Buffalo State University</i>	Associate 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 Leadership**

Coaxum III, James(1999) <i>B.S., Morehouse College, Ed.M., Harvard University; Ph.D., Vanderbilt University</i>	Associate Professor
Doolittle, Virginia(1999) <i>B.A., Miami University; Ed.M., SUNY Buffalo; Ph.D., State University of NY at Buffalo</i>	Associate Professor
Gallia, Thomas(1970) <i>B.A., M.A., M.A., Glassboro State College (Rowan), Ed.D., Rutgers University</i>	Professor
Hespe, David C., Esq.(2001) <i>B.A., Rutgers University; J.D., Rutgers University School of Law</i>	Associate Professor
Sernak, Kathleen S.(1998) <i>B.A., St. Olaf College; M.A., University of South Dakota; Ph.D., Michigan State University</i>	Associate Professor
Sisco, Burton R.(1998) <i>B.A., M.Ed., University of Vermont; Ed.D., Syracuse University</i>	Professor
Walpole, MaryBeth(2000) <i>B.A., Wells College; M.A., Stanford University; Ph.D., UCLA</i>	Associate Professor

### **Department of Electrical and Computer Engineering**

Chin, Steven(1997) <i>B.S., Rutgers University; M.S., The John Hopkins University; Ph.D., Rutgers University</i>	Associate Professor
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## Faculty List

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Head, Linda M.(1998) <i>B.S., M.S., Ph.D., University of South Florida</i>	Associate Professor
Jansson, Peter Mark(2001) <i>B.S., Massachusetts Institute of Technology; M.S., Rowan University; Ph.D., University of Cambridge</i>	Associate Professor
Krchnavek, Robert R.(1998) <i>B.S., Marquette University; M.S., California Institute of Technology; Ph.D., Columbia University</i>	Associate Professor
Mandayam, Shreekanth A.(1997) <i>B.E., Bangalore University, India; M.S., Ph.D., Iowa State University</i>	Professor
Polikar, Robi(2001) <i>B.S., Istanbul Technical University; M.S., Ph.D., Iowa State University</i>	Associate Professor
Ramachandran, Ravi Prakash(1997) <i>B.Eng., Concordia University; M.Eng., Ph.D., McGill University</i>	Professor
Schmalzel, John L.(1995) <i>B.S., M.S., Ph.D., Kansas State University</i>	Professor
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Patrick, Barbara C.(1991) <i>B.A., M.A., Ph.D., University of North Carolina at Chapel Hill</i>	Associate Professor
Talley, Lee(2002) <i>B.A., Cornell University; M.A., Ph.D., Princeton University</i>	Associate Professor
Viator, Timothy J.(1994) <i>B.A., M.A., University of Louisiana; Ph.D., Auburn University</i>	Professor
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*Licence d'histoire, Paris VII; M.A., Ph.D., Princeton University*
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Merrill, Thomas L.(2008) <i>B.S., Bucknell University; M.S., University of Michigan; Ph.D., Pennsylvania State University</i>	Assistant Professor
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### **Department of Music**

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### **Department of Public Relations and Advertising**

Basso, Joseph(2003) <i>B.A., M.A., Glassboro State College; Ph.D., Texas A &amp; M University; J.D., Widener University; APR</i>	Associate Professor
Earl, Richard L.(2004) <i>B.A., M.A., Rutgers University</i>	Instructor
FitzGerald, Suzanne Sparks(1994) <i>B.A., Eastern University; M.S., Drexel University; Ph.D., Temple University; APR Fellow PRSA</i>	Professor
Fulginiti, Anthony(1976) <i>B.A., Laurel Hill College; M.A., Villanova University; M.A., Glassboro State College; APR Fellow PRSA</i>	Professor
Hackney, David(2007) <i>B.A., University of Pennsylvania</i>	Instructor
Holtzman, Diane M.(2006) <i>B.A., University of Detroit; M.A., Rowan University</i>	Instructor
Litwin, Larry(2000) <i>B.A., Parsons College; M.A., Glassboro State College; APR Fellow PRSA</i>	Associate Professor
McNiven, Michael(2008) <i>B.A., Brigham Young University; Ph.D., University of Georgia</i>	Assistant Professor
Moore, Edward(2007) <i>B.A., M.A., Glassboro State College (Rowan University); APR</i>	Associate Professor
Nia-Schoenstein, Asi(2004) <i>B.A., Clark University; M.S., Boston University; APR</i>	Instructor
Volpe, Charles(2000) <i>B.A., Brooklyn College; M.A., Rowan University</i>	Instructor

### **Department of Public Relations/Advertising**

Babb, Tracie(2009) <i>B.A., M.A., Fordham University; Ph.D., Howard University</i>	Assistant Professor
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## Department of Radio/Television/Film

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>	Associate Professor
Brand, Keith M.(2002) <i>B.F.A., West Virginia University; M.Ed., Temple University</i>	Associate Professor
David Bianculli(2009) <i>B.S., M.A., University of Florida</i>	Associate Professor
Donovan, Mike(1972) <i>B.A., Jersey City State College; M.A., New York University</i>	Professor
Eckhardt, Edgar C.(1979) <i>B.A., Colgate University, M.A., Case Western Reserve University</i>	Professor
Kaletka, Kenneth(1989) <i>B.A., M.A., Villanova University; Ph.D., New York University</i>	Professor
Lancioni, Judith(1993) <i>B.A., College of New Rochelle; M.A., Ohio University; Ph.D., Temple University</i>	Associate Professor
Nicolae, Diana(2006) <i>B.A., Bucharest University; M.F.A., University of North Carolina - Greensboro</i>	Assistant Professor
Vallath, Chandrasekhar(2006) <i>B. TECH., Banaras Hindu University, India; M.A., Bowling Green State University; Ph.D., Indiana University</i>	Assistant Professor

## Department of Reading

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>	Assistant Professor
Diobilda, Nicholas(1972) <i>B.S., West Chester University; M.Ed., Univ. of Delaware; Ph.D., Ohio State University</i>	Professor
Hasit, Cindi(1992) <i>B.A., M.S., Ph.D., University of Pennsylvania</i>	Professor
Iles, Janet(1997) <i>B.S., M.A., Bob Jones University; M.Ed., Bloomsburg University</i>	Instructor
Lee, Valarie(2006) <i>B.A., M.A., Ed., University of Northern Colorado</i>	Assistant 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

## Faculty List

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Madden, Marjorie(2003) Associate Professor  
*B.A., College of William and Mary; M.A., Glassboro State College; Ph.D., University of Pennsylvania*

### Department of Sociology

Abbott, James R.(1990) Professor  
*B.A., University of San Diego; M.A., Ph.D., University of Pennsylvania*

Carter, Allison(1988) Instructor  
*B.A., University of Pennsylvania; M.A., The New School for Social Research*

Chaskes, Jay(1969) Professor  
*B.A., University of Toledo; M.A., Ph.D., Temple University*

Gallant, Mary J.(1992) Associate Professor  
*B.A., M.A., University of Missouri; Ph.D., University of Minnesota*

Hartman, Harriet J.(1996) Professor  
*B.A., University of California at Los Angeles; M.A., University of Michigan; Ph.D., Hebrew University of Jerusalem*

Hutter, Mark(1974) Professor  
*B.A., M.A., Brooklyn College; Ph.D., University of Minnesota*

Jones, Sandra J.(2003) Assistant Professor  
*B.A., Christopher Newport University; M.S.W., Norfolk State University; M.A., Ph.D., Temple University*

Li, Yuhui(1992) Associate Professor  
*B.A., Sichuan Foreign Languages Institute, China; M.A., Ohio University; Ph.D., Ohio State University*

Miller, DeMond S.(1997) Professor  
*B.A., Northeast Louisiana University; M.S., Ph.D., Mississippi State University*

Myers, John(1973) Professor  
*B.S., Drexel University; M.A., Ph.D., Fordham University*

Sommo, Anthony J.(1992) Assistant Professor  
*B.A., M.A., Ph.D., University of Connecticut; M.S.W., Syracuse University*

Zake, Ieva(2004) Associate Professor  
*B.A., University of Latvia; M.A., Ohio State University; Ph.D., University of Massachusetts*

### Department of Special Education Services and Instruction

Davis Bianco, Sharon(1976) Professor  
*B.A., Trenton State College; M.Ed., University of Delaware; Ed.D., Temple University*

Finch, Joan(2005) Assistant Professor  
*B.A., University of Pennsylvania; M.S., Southern Connecticut State College; Ph.D., Temple University*

Hamlet, Carolynn(1984) Assistant Professor  
*B.S., University of Tennessee; M.Ed., Memphis State University; Ph.D., Temple University*

Hathaway Cook, Donna(1977) Professor  
*B.A., M.A., Glassboro State College; Ed.D., Lehigh University*



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Faculty List

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- Ihunnah, Anthony(1984) Assistant Professor  
*B.A., M.A., Marshall University; Ed.D., Virginia Polytechnic Institute and State*
- Kuder, Sidney Jay(1984) Professor  
*B.A. Trinity College; M.Ed., Temple University; Ed.D., Boston University*
- McHenry, Sandra L.(1993) Associate Professor  
*R.N., Helene Fuld School of Nursing; B.A., Rowan College of NJ; M.S., University of Delaware; D.N.Sc., Widener University*
- Rios, Hector M.(1994) Associate Professor  
*B.A., University of Puerto Rico; M.S., State University of New York; Ph.D., Temple University*
- Shuff, Margaret(1995) Associate Professor  
*B.A., M.A., Glassboro State College; Ph.D., University of Delaware*
- Willett, Holly G.(1997) Associate Professor  
*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*
- Williams, Barbara Bole(2001) Professor  
*B.A., Muskingum College; M.A., M.A., Glassboro State College; Ph.D., Temple University*
- Xin, Joy F.(1994) Professor  
*B.A., Tsitsihar Teachers College, China; M.Ed., Ed.D., Peabody College of Vanderbilt University*

**Department of Teacher Education (Early Childhood, Elementary Education, Subject Matter)**

- Abi-El-Mona, Issam H.(2008) Assistant Professor  
*B.S., M.A., American University of Beirut; Ph.D., University of Illinois Urbana-Champaign*
- Bae-Suh, Soyoun(2003) Associate Professor  
*B.A., Ewha Women's University; M.Ed., University of Pittsburgh; Ph.D., University of Illinois Urbana-Champaign*
- Benevento, Jacqueline D.(1993) Assistant Professor  
*B.A., Montclair State; M.A., Middlebury College; Ed.D., Temple University*
- Faison, Christy(1987) Professor  
*B.S., Hampton Institute; M.A., The Ohio State University; Ed.D., Temple University*
- Gallia, Thomas(1970) Professor  
*B.A., M.A., M.A., Glassboro State College (Rowan), Ed.D., Rutgers University*
- Jorgensen, Donna W.(2000) Associate Professor  
*B.S., West Chester University; M.A. Villanova University; Ed.D., Widener University*
- Levinowitz, Lili(1989) Professor  
*B.M., Westminster Choir College; M.M., Ph.D., Temple University*
- McBee, Robin H.(1996) Associate Professor  
*B.A., University Without Walls/Providence; M.Ed., Lesley College; Ph.D., Virginia Commonwealth University*
- Meredith, Corine(2006) Assistant Professor  
*B.S., Bloomsburg University; M.A., M.Ed., University of Virginia; Ph.D., University of Virginia*

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Faculty List

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Moss, Janet G.(1992) <i>B.S., Northwestern University; Ed.M., Harvard University; Ed.D., U.C.L.A.</i>	Associate Professor
Perry, Jill Ann(2001) <i>B.S., M.Ed., University of Florida; Ph.D., University of Central Florida</i>	Professor
Rodriguez, Yvonne(1973) <i>B.A., Rutgers University; M.A., Glassboro State College; Ed.D., Temple University</i>	Professor
Sharp, Carol(1987) <i>B.A., Glassboro State College; M.A., William Paterson College; Ph.D., Penn State University</i>	Professor
Sudeck, Maria R.(2001) <i>B.S., College of New Jersey; M.Ed., Ph.D., Temple University</i>	Associate Professor
Taber, Susan B.(1996) <i>B.A., M.A., Stanford University; Ph.D., University of Delaware</i>	Professor
Viator, Martha(2006) <i>B.A., University of Louisiana-Lafayette; M.A., Ph.D., Auburn University</i>	Assistant Professor
Wassell, Beth(2004) <i>B.A., Rowan University; M.A., University of Central Florida; Ed.D., University of Pennsylvania</i>	Associate Professor
Westcott, Patrick(2003) <i>B.A., University of Minnesota; M.A., University of Connecticut; M.A., Fairleigh Dickinson University; Ed.D., Columbia University</i>	Assistant Professor

### **Department of Theatre and Dance**

Elkins, Leslie A.(2004) <i>B.A., Columbia College; M.Ed., Temple University</i>	Associate Professor
Fusco, Thomas A.(1999) <i>B.A., University of Massachusetts; M.F.A., Boston University</i>	Associate Professor
Graneto, Phillip(1970) <i>B.A., Catholic University; M.F.A., Carnegie-Mellon University</i>	Professor
Healy, Bartholomew(1985) <i>A.B., College of the Holy Cross; MFA, New York University</i>	Professor
Hostetter, Elisabeth(2000) <i>B.F.A., Virginia Commonwealth University; M.A., University of Texas; Ph.D., University of Missouri</i>	Associate Professor
Savadove, Lane(2007) <i>B.A., Haverford College; MFA, Columbia University</i>	Assistant Professor
Stewart, Melanie(1981) <i>B.A., Webster College; M.F.A., Temple University</i>	Professor
Sullivan, David(2004) <i>B.A., Providence College; M.A., Brown University; M.A.T., M.F.A., Boston University</i>	Associate Professor
Turner, Paule Lawrence(2000) <i>B.F.A., Virginia Commonwealth University; M.F.A., Temple University</i>	Assistant Professor

### **Department of Writing Arts**

## Faculty List

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Adams, Kelly(2009) <i>B.A., Rutgers University; M.A., Montclair State University</i>	Instructor
Block, Ronald(2003) <i>B.A., University of Nebraska; M.A., M.S., Syracuse University;</i>	Associate Professor
Chang, Julia(1996) <i>B.A., Stonehill College; M.S.J., Columbia University; M.A., Temple University</i>	Associate Professor
Courtney, Jennifer(2004) <i>B.A., Duquesne University; M.A., Western Michigan; Ph.D., Purdue</i>	Associate Professor
Fell, Loriann(2005) <i>B.A. and M.A., Rutgers University;</i>	Instructor
Gess, Denise(2005) <i>B.S., Lasalle University; M.A., Rutgers University</i>	Associate Professor
Giampalmi, Joseph J.(1998) <i>B.A., M.Ed., Widener University, Ed.D Temple University</i>	Assistant Professor
Han, Aiguo(1993) <i>B.A., Xian Foreign Language University; M.A., Ph.D., Indiana University of Pennsylvania</i>	Associate Professor
Harvey, Roberta K.(1998) <i>B.A., M.A., Univ. of North Dakota; Ph.D., Univ. Wisconsin-Milwaukee</i>	Associate Professor
Herberg, Erin V.(2000) <i>B.S., B.A., Western Carolina University; M.A., Ph.D., Georgia State University</i>	Assistant Professor
Itzkowitz, Martin(1989) <i>B.A., Brooklyn College; M.A., Ph.D., New York University</i>	Associate Professor
Kopp, Andrew(2009) <i>B.A., University of South Florida; M.A., Ph.D., University of Arizona</i>	Assistant Professor
Mannion, Susan(1980) <i>B.A., College of New Jersey; M.A. Rowan University</i>	Instructor
Martin, Deb(2003) <i>B.S., Western Michigan University; M.A., Ph.D., Texas Woman's University</i>	Associate Professor
Maxson, Jeffrey N.(1994) <i>B.A., Yale University; M.A., Ph.D., University of California at Berkeley</i>	Associate Professor
Reavey, Roberta A.(2004) <i>B.A., Westfield College; M.A.T.</i>	Instructor
Rowan, Janice(1976) <i>B.A., Rutgers University; M.A., University of Michigan</i>	Professor
Rubio, Frank(2007) <i>B.S., St Joseph's University; M.S.Ed., Temple University</i>	Instructor
Stoll, Donald(1992) <i>B.A., Valparaiso University; M.F.A., University of Texas at Austin; Ph.D., Indiana University</i>	Associate Professor
Teston, Christa(2009) <i>B.A., M.A., Ph.D., Kent State University</i>	Assistant Professor

Faculty List

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- Tweedie, Sanford M.(1994) Professor  
*B.A., University of Michigan; M.A., Eastern Michigan University; Ph.D., University of Wisconsin-Milwaukee*
- Wolff, William(2006) Assistant Professor  
*B.A., Union College; M.A., University of Cincinnati; Ph.D., University of Texas*
- Zehner, Roberta(1990) Instructor  
*A.B., Rosemont College; M.A., Glassboro State College (Rowan)*

### **Board Of Trustees**

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Ms. Elizabeth Palmer (Student Trustee)	Glassboro, NJ
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Ms. Susan Powell	Medford, NJ
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Dr. Donald J. Farish, ex-officio	Woodbury, NJ

### **Administration of the University**

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Ali A. Houshmand	Provost
Thomas J. Gallia	Vice President for University Relations and President's Chief of Staff
Richard Hale	Vice President for Administration and Finance
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Mary R. McRae	Vice President for University Advancement
Anthony Mordosky	Associate Provost for Information Resources
James Newell	Interim Associate Provost for Academic Affairs
Gautam Pillay	Associate Provost for Research
Robert A. Zazzali	Associate Provost for Faculty Affairs
George Brelsford	Associate Vice President for Student Affairs and Dean of Students

## Faculty List

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Joseph F. Scully, Jr.	Associate Vice President for Fiscal Affairs and Controller
Jon Robert Cart	Dean, College of Fine and Performing Arts
Dianne Dorland	Dean, College of Engineering
Jay A. Harper	Dean, College of Liberal Arts and Sciences
Craig Monroe	Dean, College of Communication
Niranjann Pati	Dean, College of Business
Carol Sharp	Dean, College of Education
Horacio Sosa	Dean, College of Professional and Continuing Education
Bruce A. Whitham	Dean, Library Services

## Executive Administration

ACCIANI, MARY (2000) <i>B.S., M.E., Rutgers University</i>	Director for Facilities Planning and Construction
AN, SHAN (2001) <i>M.L.S., Drexel University, Philadelphia, PA</i>	Librarian
ANSARI, PARVIZ H. (2009) <i>B.S., Pablavi (Shiraz) University; M.S., Ph.D., Tufts University</i>	Dean of the College of Liberal Arts and Sciences
ARNOLD, LORIN (1998) <i>B.A., M.A., Ph.D., Purdue University</i>	Interim Dean of the College of Communication
ARNOTT, MELISSA (2003) <i>B.A., Neumann College; M.S., West Chester University; Ed.D., University of Sarasota</i>	Director for Academic Success Center
AU, VALERIE (1998) <i>B.A., University of Hong Kong; M.A.M.C., University of Florida</i>	Director of Development Information Systems
AYRES, SALLY (1982) <i>A.A., Wesley College</i>	Managing Administrative Assistant for the President
BAGLIO, JOHN (1978) <i>B.S., Rider University</i>	Director of Student Accounts
BASANTIS, MELANIE (1998) <i>B.S., B.S., Penn State University; M.B.A., Widener University</i>	Director of Outreach for the College of Engineering
BETTS, ALBERT (1994) <i>B.A., M.A., Indiana University of Pennsylvania</i>	Director of Admissions
BLANDING, Z. BENJAMIN (1992) <i>B.A., South Carolina State University; M.A., Rider University; Psy.D., Florida Institute of Technology</i>	Assistant Vice President of Student Development and Director
BLOCK, LORI A. (1992) <i>B.S., University of Scranton; M.P.A., Kutztown University; PHR</i>	Academic Advisor for College of Education Student Services Center
BLOW, DENNIS (1975) <i>B.A., M.B.A., Glassboro State College</i>	Director of Cashiering and Card Office
BRASTETER, CHRISTINE (2009) <i>B.S., ; J.D.,</i>	Senior Director for Procurement
BRETT, CHARLES J. (2003) <i>B.A., M.A. Glassboro State College (Rowan)</i>	Academic Advisor for College of Education Student Services Center
BREWER, GLENN (1978) <i>B.S., Rowan University</i>	Director of Facilities Operations and Maintenance
BRODIE, JEAN B. (2007) <i>B.S., North Carolina Central University; M.A., Gratz College, Ed.D., Nova Southeastern University</i>	Executive Director for College of Education Student Services Center
BRUNER, RONALD (1999) <i>B.A., Rutgers College; M.A., Temple University</i>	Lab Coordinator for Physics and Astronomy
BRUSH, DENISE (2005) <i>B.S. in Civil &amp; Environmental Engineering, Massachusetts Institute of Technology; M.S. in Software Engineering, Seattle University; M.S. in Library &amp; Information Science, Drexel University</i>	Librarian
CARDONA, JOSE (1995) <i>B.A., M.A., Ed. D., Rowan University</i>	Director of the University Media and Public Relations
CART, JON ROBERT (2006) <i>B.M., DePauw University; M.M., Indiana University; D.M.A., University of Maryland</i>	Dean of the College of Fine and Performing Arts
CHIN, STEVEN H. (1997) <i>B.S., Rutgers University; M.S., The John Hopkins University; Ph.D., Rutgers University</i>	Associate Dean of the College of Engineering

## Executive Administration

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CLARK, CAROL (1977) <i>B.A., Regis College; M.S.L.S., Syracuse University; M.Ed., University of Lowell</i>	Librarian
CLARK, ERIC (1970) <i>B.S., Tufts University; M.A., King School of Social Change, Crozier Theological Seminary; M.A., Ph.D., University of Delaware</i>	Special Assistant to the President for Pre-College and Related Initiatives
CUCINOTTA, MARTY (1986) <i>B.A., M.A., Ed.D., Rowan University</i>	Managing Administrative Assistant for the Provost
DAMMINGER, JOANNE (1997) <i>B.A., M.A., Ed.D., Rowan University</i>	Director of Student Transition and Leadership Programs
DEEHAN, CHRISTINE (1999) <i>B.S., M.A., Rowan University</i>	Director of University Events
DORLAND, DIANNE (2000) <i>B.S., M.S., South Dakota School of Mines and Technology; Ph.D., West Virginia University</i>	Dean of the College of Engineering
DePASQUALE, LAWRENCE (1983) <i>B.A., M.A., Glassboro State College (Rowan)</i>	Academic Advisor and Music Education Coordinator
DiNOVA, KRISTEN (2009) <i>B.A., Montclair State University; M.Ed, Phd., Temple University</i>	Assistant Dean of the College of Liberal Arts and Sciences
EIGENBROT, EDWIN (1993) <i>B.S., M.Ed., Springfield College</i>	Assistant Provost and Director of Institutional Research and Planning
FARISH, DONALD J. (1998) <i>B.Sc., University of British Columbia; M.S., North Carolina State University; Ph.D., Harvard University; J.D., University of Missouri</i>	The President
FARNEY, STEVEN C. (2004) <i>B.A., M.B.A., Rowan University</i>	Assistant Dean for College of Education
FISHER, BEN (1970) <i>B.J., University of Texas; M.A. in Communication, American University; M.A. in Library Science, Glassboro State College; Ph.D. in Communication and Information Science, Rutgers University</i>	Public Services Librarian
FISHER, JOANNE (1987) <i>B.A., Rutgers University</i>	Associate Director in Financial Aid
FOGLEIN, JOHATHAN (1996) <i>B.S., University of New Brunswick; M.S., Queens University</i>	Instrument Coordinator and Safety Officer, Chemistry and Biochemistry
FRIERSON, MURIEL (1990) <i>B.A., Chestnut Hill College; M.S., Drexel University</i>	The Registrar
GALLIA, DONNA (2004) <i>B.A., M.A., Rowan University (Glassboro)</i>	Director of the Schaub Instructional Materials Center
GALLIA, THOMAS J. (1970) <i>B.A., M.A., M.A., Glassboro State College; Ed.D., Rutgers University</i>	Vice President for University Relations and President's Chief of Staff
GAYMON, JAMES (1997) <i>B.A., Rowan University; M.A., Rutgers University-Newark</i>	Vice President of Civic and Governmental Relations
GILCHRIST, DORIE (1978) <i>B.A., Penn State University; M.Ed., Temple University</i>	Coordinator of Exploratory Studies
GIUNTA, KAREN (1986) <i>B.A., M.A., Rowan University</i>	Managing Administrative Assistant for the Provost
GOLLIHUR, REBECCA JO (2007) <i>B.A., M.A., University of Chicago</i>	Director of Enrollment and Extension in the College of Professional and Continuing Education
GRUBER, CAROL A. (2008) <i>B.A., California State-Long Beach; M.A., University of Southern California, Ph.D., University of Iowa</i>	Associate Vice President for Student Engagement
HALE, RICHARD (2005) <i>B.A., Brown University; J.D., Vanderbilt University</i>	Vice-President of Administration and Finance



## Executive Administration

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HARRIS, MICHAEL (2009) <i>B.S., ; M.S., University</i>	Associate Vice-President for Administration and Finance - Chief of Operations
HAYES-ROBINSON, FAYE E. (2000) <i>B.A. English/Liberal Arts, Rowan University; M.A., School and Public Librarianship, Rowan University, Rowan University State of New Jersey Professional Librarian Certificate</i>	Librarian
HENDERSON, JAMES (1989) <i>B.A., Furman University</i>	Director of Enterprise Information Services
HOGAN, FRANK (1991) <i>A.A.S., Cleveland Institute; Certified Professional Broadcast Engineer, S.B.E.</i>	General Manager of WGLS
HOLLOWAY, KATHY (1987) <i>B.S., Glassboro State College (Rowan)</i>	Director of Human Resources for Administration Services and Benefits
HOLMES, JUDITH (1988) <i>B.A., Marymount College; M.A., Glassboro State College (Rowan)</i>	Head Reference Librarian
HOUSHMAND, ALI (2006) <i>B.A., M.A., University of Essex, United Kingdom; M.S., Ph.D., University of Michigan</i>	The Provost
IMPERATORE, JOHN (2000) <i>B.S., M.E., Drexel University</i>	Director of Facilities Resource Management
JACKSON, PATRICIA (2000)	Laboratory Technician for Chemistry and Biochemistry
JONES, RICHARD (2008) <i>B.A., University of North Florida; M.S., Mississippi State University</i>	Interim Associate Vice President for Residential Learning/Dean of Students
JORDAN-COX, CARMEN (2007) <i>A.B., Indiana University; M.Ed., Pennsylvania State University; Ph.D. Boston College</i>	Vice-President for Student Affairs
KATZ, CRAIG (2001) <i>B.A., Rutgers University; Ed.M., Temple University</i>	Director of International Student Service
KLEIN, BRUCE (1992) <i>B.S., Glassboro State College (Rowan)</i>	Director of Network and System Services
KLEVA, BARBARA (2007) <i>B.A., Boston University; J.D., Seton Hall University Law School</i>	General Counsel
KLOSKEY, THOMAS (1977) <i>B.A., M.A., Temple University</i>	Director in College of Communication
KUERZI, KEN (1994) <i>B.S., J.D., Florida State University</i>	Director of Employee/Labor Relations
KUHLEN, JOHN (1987) <i>B.A., M.B.A., Glassboro State College (Rowan)</i>	Director of Facilities Business Services
LALOVIC-HAND, MIRA (2008) <i>B.S. Belgrade University, Belgrade, Serbia; M.S., Ph.D. University of Cincinnati</i>	Interim Assistant Provost and Director of Graduate School
LAW, FRANCES (1986) <i>B.A., Rowan University</i>	Managing Administrative Assistant for Vice President for University Advancement
LAYTON, REED (2006) <i>A.A., Gloucester County Community College</i>	Acting Senior Director of Public Safety/Director of Police
LIPARTITO, ROBERT (2001) <i>B.M., Glassboro State College; M.M., Manhattan School of Music; M.L.S., Queens College (CUNY)</i>	Music Librarian,
LONG, MARY KATHERINE (2009) <i>B.S., Villa Maria College</i>	Associate Vice President for Development
LOVEGROVE, JAMES (1982) <i>B.S., Glassboro State College (Rowan)</i>	Director of Accounts Payable/Cash Management

## Executive Administration

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MARGOLIS, JEFFREY (2002) <i>B.S., Temple University; M.A., Rowan University</i>	Advisor for Elementary Education
MARSHALL, LORI (1992) <i>B.S., Evangel College; M.A., Rowan University</i>	Director of University Publications
MAZZEI, DIANE (2003) <i>B.A., M.A., Rowan University</i>	Director in Beginning Teachers Induction Center
MEREDITH, PHYLLIS (1987) <i>B.A. in History, Fayetteville State University; M.L.S., Atlanta University/ School of Library &amp; Information Science</i>	Librarian
MILLER, DEMOND S. (1997) <i>B.A., Northeast Louisiana University; M.S., Ph.D., Mississippi State University</i>	Director for Liberal Arts and Sciences Institute
MILLIGAN, CAROLYN (2005) <i>B.S., Rutgers University</i>	Director of Payroll
MORDOSKY, ANTHONY (2000) <i>B.S., Kutztown State University; B.S., Millersville State College; M.B.A., Temple University</i>	Associate Provost for Information Resources
MORRIS, MARJORIE (1975) <i>B.A., University of Pennsylvania; M.S., Drexel University</i>	Librarian
MORROW, EILEEN (1992) <i>B.A., Wilkes College; M.A., Bucknell University; CSP</i>	Director of Purchasing
MULLENS, CYNTHIA (1950) <i>B.A., Belmont University; M.S., Drexel University</i>	Librarian
MULLENS, JOHN (1987) <i>B.A., Belmont College; M. Div., Midwestern Baptist Theological Seminary</i>	Systems Manager Library
MULLIGAN, JOSEPH (2004) <i>B.A., M.A., West Chester University</i>	Assistant Dean of Students
MUMMERT, ESTHER (1989) <i>B.S., East Stroudsburg University; M.A., Shippensburg University</i>	Coordinator for College of Communication Academic Advising
McCAFFERTY, JACQUELINE (2003) <i>B.A., Ithaca College; M.S.Ed., Temple University; CELTA Teaching Certificate, Cambridge University</i>	Director of ESL and Basic Skills
McCALL, SALLY (1977) <i>B.S., Drexel University</i>	Director of Budget
McCARGO, DONOVAN (2006) <i>B.S. Rowan University, M.Ed., Iowa State University</i>	Director for Student Services and EOF Camden Campus
McCOMBS, TYRONE (2001) <i>B.A., M.A., Rutgers University; Ph.D. University of Pennsylvania</i>	Interim Assistant Provost and Director of Rowan at Camden
McPHERSON-BARNES, PENNY (2007) <i>ï; B.A., M.A., Rowan University</i>	Assistant Dean of Students/ Director of EOF/MAP
McRAE, MARY R. (2007) <i>B.S., Villanova University</i>	Vice President for University Advancement
NEGRO, PAMELA (1994) <i>B.S. Rowan University; MSW, Rutgers University., LCADC, DRCC</i>	Director, Center for Addiction Studies and Awareness
NEWELL, JAMES (1998) <i>B.S., Carnegie-Mellon University; M.S., Penn State University; Ph.D., Clemson University</i>	Associate Provost for Academic Affairs
NEWLAND, ROBERT (1988) <i>National Teacher Certification, Teachers College N6; Licenciada in Biology (M.S.), University of Buenos Aires; M.A. equivalent, The University of Texas at Austin; M.S., Drexel University; Ph.D., University of Buenos Aires</i>	Interim Associate Dean for the College of Liberal Arts and Sciences
NORTON, RICHARD (1997) <i>B.S., Rowan University; M.S., University of Maryland</i>	Laboratory Technician for Chemistry and Biochemistry

## Executive Administration

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ORLINS, JOSEPH (1999) <i>B.S., University of Washington; M.S., Ph.D., University of Minnesota</i>	Assistant Vice-President for Facilities
PATI, NIRANJAN (2008) <i>B.Tech., Ranchi University, India; M.Tech., Indian Institute of Technology, India; M.S., Ph.D., Northwestern University</i>	Dean of William G. Rohrer College of Business
PERRY, JILL (2001) <i>B.S., M.Ed., University of Florida; Ph.D., University of Central Florida</i>	Associate Dean for College of Education
PETERSON, JULIE (1977) <i>B.A., M.A., Trenton State College (College of New Jersey)</i>	Director of Student Enrichment and Family Connections
PILLAY, GAUTAM (2008) <i>B.S., New Mexico State University; Ph.D., Texas A&amp;M University</i>	Associate Provost for Research
PINCKNEY, MELVIN (1986) <i>B.A. Glassboro State College (Rowan); M.S., N.D., A &amp; T State University</i>	Academic Advisor for the College of Education Student Services Center
PINDER, ANNE (2003) <i>B.S., Rowan University; M.A., Certification Information Management, Stevens Institute of Technology</i>	Manager for University Support Systems
PINOCCI, TINA (1992) <i>B.S., M.Ed., Frostburg State College</i>	Assistant Vice President for Campus Recreation, Student Center and Conference Services
PONTES, NANCY (2003) <i>B.S.N., Pensacola Christian College, M.S.N., University of Florida; D.N.Sc., Columbia University</i>	Assistant Vice President for Health and Wellness
POTTER, GREGORY (1969) <i>B.A., University of Pennsylvania; M.S.L.S., Villanova University; M.A., Glassboro State College (Rowan); Ed.D., Rutgers University; Certified Public Manager, State of New Jersey</i>	Associate Dean for the Rowan University Libraries
POWELL, KELLEY M. (2005) <i>B.A., University of Maryland; M.A., University of Delaware</i>	Academic Advisor in the College of Education Student Services Center
REEVE, JULIA (1988)	Managing Administrative Assistant for the President
RICCHEZZA, LORRAINE (2006) <i>B.S., LaSalle University; M.Ed., Widener University</i>	Director of the Preschool for Rowan at Camden
ROSENBERGER, ROMINE (1999) <i>B.S., Longwood College; M.S., Virginia Commonwealth University; M.A., Rowan University</i>	Public Services and Business Librarian
ROWAN, JANICE (1976) <i>B.A., Rutgers University; M.A., University of Michigan</i>	Interim Associate Dean for College of Communication
ROZANSKI, KATHY (1990) <i>B.A., Glassboro State College (Rowan)</i>	Director of Alumni Relations
RUBENSTEIN, DAVID (2009) <i>B.A., Drake University; M.S., Loyola University of Chicago; Ph.D., Illinois School of Professional Psychology in Chicago</i>	Director, Counseling and Psychological Services
SAHM, GEORGETTE (1999) <i>B.A., Rowan University; M.A., Philadelphia University</i>	Courseware Development Specialist in Instructional Technology
SAHM, HAROLD (1977) <i>B.S., Millersville State University; M.A.T., Ed.D., Rutgers University</i>	Interim Director of Continuing Education
SCHMELZ, NICHOLAS (1974) <i>B.A., Bloomfield College; M.A., Seton Hall University</i>	Academic Advisor for the College of Education Student Services Center
SCHOEN, MARGARET (2003) <i>B.S., King's College; M.S., College of Misericordia</i>	Director of Government Grants and Sponsored Research
SCOTT, EILEEN (1977) <i>B.S., Rowan University</i>	Senior Director of Human Resources
SCULLY, JOSEPH F., JR. (2000) <i>B.S., M.B.A., LaSalle University; CPA</i>	Vice President and Chief Financial Officer

## Executive Administration

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SHARP, CAROL (1987) <i>B.A., Glassboro State College; M.A., William Paterson College; Ph.D., Penn State University</i>	Dean of College of Education
SIEFRING, KAREN (1983) <i>B.A., Douglass College; M.A., Glassboro State College (Rowan)</i>	Assistant to the Dean for Student Advisement, Rohrer College of Business
SILLS, MARVIN G. (1972) <i>B.A., M.A., Glassboro State College</i>	Director of Recruitment and Outreach for College of Professional and Continuing Education
SMITH, EDWARD III (1992) <i>B.A., Rutgers University; M.Phil., Ph.D., New York University</i>	Director of the International Center
SNYDER, RICHARD (1979) <i>B.S., Glassboro State College (Rowan); M.B.A., Rowan University</i>	Director of Accounting Services
SOLOMEN, JOY (1986) <i>B.A., M.A., Glassboro State College (Rowan)</i>	Director of Athletics
SOSA, HORACIO (2006) <i>B.S., UNLP, Argentina; M.S., Stanford University; Ph.D., Stanford University,</i>	Dean for the College of Professional and Continuing Education
SPENCER, JEROME (1997) <i>B.S., University of North Carolina at Chapel Hill; M.B.A., Cornell University</i>	Lab Coordinator for Computer Science
STEELE, JUANITA D. (1986) <i>A.A., Philadelphia School of Office Training</i>	Managing Administrative Assistant for Administration and Finance
STEVENSON, SHEILA (1985) <i>B.A., Rochester Institute of Technology</i>	Director of Sports Information
STOLL, PATRICIA ALEXY (1984) <i>B.A., M.A., Glassboro State College (Rowan); Ed.D., Widener University</i>	MIS/Certification Specialist for the College of Education
STRATTIS, ELLA (1993) <i>B.A., Niagara College; M.L.S., Drexel University</i>	Government Documents Librarian
SULLIVAN-WILLIAMS, LIZZIEL (1976) <i>B.A., Glassboro State College (Rowan); M.A., Antioch University</i>	Director of Career and Academic Planning Center
SWEETEN, LINDA C. (1992) <i>B.A., Trenton State College; M.Ed., University of Delaware</i>	Assistant Dean in the College of Communication
TALLARIDA, RONALD J. (2009) <i>B.A., Temple University</i>	Development Director
TAVAREZ, LUIS (1998) <i>B.A., Glassboro State College (Rowan); M.A., Thomas Edison State College</i>	Director of Financial Aid
TAYLOR, TYRONE (1978) <i>A.S., Pierce College; B.S., Glassboro State College; M.A., Rowan University</i>	Director of Campus Security and Student Programs
THOMPSON, EDWARD (2004) <i>A.A., Keystone College; B.S.A.G., West Virginia University; M.L.A., University of Virginia</i>	Director of Facilities Landscape
TIEMANN, MARIE (2006) <i>B.S., Rutgers University; M.Ed., Ph.D., Temple University</i>	Executive Director Personnel Policies and Employee Development
TOPORSKI, NEIL (2003) <i>B.S., University of Wisconsin-Madison; M.S., Clarion University; Ed.D., Lehigh University</i>	Director of Instructional Technology
VAN BRUNT, MARGARET (1995) <i>B.A., Rutgers University; CPA</i>	Assistant Dean in the Rohrer College of Business
VEACOCK, PEGGY (1983) <i>B.A., Rowan University</i>	Executive Assistant, University Advancement
VELEZ-YELIN, JOHANNA (1990) <i>B.A., InterAmerican Univ., San Juan, Puerto Rico; M.A., Glassboro State College (Rowan); Ed.D., Widener University</i>	Acting Director for Affirmative Action

## Executive Administration

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WADLEIGH, RICHARD (1988) <i>B.S. University of Nebraska Omaha</i>	Director of Campus Safety and EMS
WAGENER, MARK (1988) <i>B.A., B.S., M.B.A., Glassboro State College (Rowan)</i>	Director for Student Housing and Business Services
WAGNER, FRANK J. (1997) <i>B.S., Kean College; M.S., Thomas Jefferson Medical College</i>	Laboratory Director for Biological Sciences
WHITHAM, BRUCE A. (2006) <i>B.A., University of Western Ontario; M.E.S., York University; M.S.L.S., University of Western Ontario</i>	Dean for Rowan University Libraries
WILSON, TAMIKA (2009) <i>B.A., University of Pennsylvania</i>	Managing Administrative Assistant to the Vice President for Student Affairs
WILSON, VIRGINIA (2008) <i>B.S.N., University of Hawaii; M.S.N., Widener University</i>	Director of Joint Rowan/UMDNJ Nursing Program, College of Professional and Continuing Education
YOVNELLO, NICHOLAS (1970) <i>B.A., M.A., Glassboro State College (Rowan)</i>	Assistant Director for Technical Services Library
ZAZZALI, ROBERT (1973) <i>B.A., M.A., Glassboro State College (Rowan); M.A., Rutgers University</i>	Associate Provost for Faculty Affairs
ZIEGLER, EDWARD (1972) <i>B.A., Trenton State College; M.A., Glassboro State College (Rowan)</i>	Director of University Marketing
ZISCO, YA'AGOV (2008) <i>B.A., Tel Aviv University; M.A., University of Illinois; M.L.S., University of Illinois</i>	Librarian

## The Emeriti

ADAMS, ETHEL M. (1968-1984)	Professor
Psychology <i>B.A., Eastern Michigan Univ.; M.A. Univ. of Michigan; Ed.D., Univ. of Pennsylvania</i>	
ADDISON, CAROLYN (1967-1991)	Professor
Health & Physical Education <i>B.S., James Madison Univ.; M.A. New York Univ.; Ed.D., Temple University</i>	
ALVINO, ESTHER (1966-1987)	Assistant Professor
Elementary Education <i>B.A., M.A., Glassboro State College</i>	
AMBACHER, JR., RICHARD J. (1967-2000)	Professor
Communication Studies <i>B.A., Glassboro State College; M.F.A., Yale University</i>	
AMME, LINDA (1968-1990)	Assistant Professor
Special Ed. Serv./Instruction <i>B.A., M.A., Glassboro State College</i>	
ANDERSEN, DONALD (1970-1998)	Assistant Professor
Special Ed. Serv/Instruction <i>B.A., M.Ed., Rutgers University</i>	
AVRIL, EDWIN (1959-1982)	Professor
Music <i>B.A., San Francisco State College; M.A., Ed.D., Teachers College, Columbia University</i>	
BARTELT, PEARL W. (1972-1999)	Professor
Sociology and Dean <i>B.S., M.A., Ph.D., Ohio State University</i>	
BENDER, AARON (1964-1991)	Professor
History <i>B.A., Brooklyn College; M.A., Ph.D., New York University</i>	
BENNETT, RENEE (1963-1983)	Assistant Professor
Elementary Education <i>B.S., Rider College; M.A., Glassboro State College</i>	
BEVERLY, LEAH (1958-1984)	Professor
Health and Physical Education <i>B.S., Southwestern Louisiana College; M.A., N.Y.U.; Ed.D., Univ. of So. Mississippi</i>	
BIANCHI, JOHN (1967-1990)	Education and Coordinator of Research
<i>B.S., Villanova Univ.; M.Ed., Rutgers Univ.; Ed.D., Temple University</i>	
BISAZZA, GAETANO R. (1966-2000)	Assistant Professor
Biological Sciences <i>B.S., LaSalle College; M.S. Villanova University</i>	
BLANKEN, MAURICE (1957-1982)	Associate Professor
Economics and Political Science <i>B.A., Drew University; M.A., Columbia University</i>	
BLOUGH, ROBERT (1963-1995)	Professor
Elementary Education <i>B.S., Juniata College; M.Ed., Temple University; Ed.D., University of Pennsylvania</i>	
BOLAY, BRENDA (1968-1997)	Associate Professor
Health and Exercise Science <i>B.A., University of Michigan; M.Ed., State University of New York, Buffalo; Ph.D., University of Maryland</i>	

## The Emeriti

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BORGEN, EVELYN (1965-1991) Elementary/Early Childhood Education <i>B.S., Monmouth College; M.A., Glassboro State College; Ed.D., Fairleigh Dickinson Univ.</i>	Professor
BOROWEC, ALEXANDER (1956-1988) Physical Sciences <i>B.S., Trenton State College; M.S., Univ. of Pennsylvania; Ed.D., Temple University</i>	Professor
BRESLIN, FREDERICK (1960-1991) Psychology <i>B.A., Queens College; M.A., Ph.D., New York University</i>	Professor
BRINKER, BEULAH (1960-1984) Elementary Education <i>B.S., Glassboro State College; M.A., New York University</i>	Assistant Professor
BRITTON, PEARL E. (1968-1977) Health and Physical Education <i>B.S., Cortland State College; M.Ed., Ed.D., University of Buffalo</i>	Professor
BROOKS, ELLAIN (1965-1983) Math/Computer Science <i>B.S., North Carolina State; M.A., Columbia University</i>	Assistant Professor
BROWN, ESTELLE (1962-1992) Reading/Speech Correction <i>B.S., M.A., Glassboro State College; Ed.D., Temple University</i>	Professor
BUZASH, GABRIEL (1964-1981) Elementary Education <i>B.S., Slipper Rock State College; M.S., Westminster College; Ed.D. Penn State University</i>	Professor
BYRER, JOSEPH (1968-1995) Technology <i>B.S., M.S., Indiana State University</i>	Assistant Professor
CALLIARI, CARL (1968-2004) Education <i>B.A., M.A., Glassboro State College; Ed.D., Temple University</i>	Professor
CELL, HOWARD R. (1967-2000) Philosophy/Religion <i>B.S., University of Wisconsin; M.A., San Jose University; Ph.D., Temple University</i>	Professor
CHAMBERLAIN, MARK M. (1969-2000) <i>B.S., Franklin and Marshall College; Ph.D., University of Illinois</i>	President Emeritis
CIAVARELLI, MARIA LISA (1973-2008) Foreign Languages and Literatures <i>B.A., M.A., Ph.D., University of Pennsylvania</i>	Associate Professor
CIMPRICH, JACK R. (1973-1998) Computer Science <i>B.A., Boston College; M.S. Eng., University of Pennsylvania</i>	Associate Professor
CLAPP, ROBERT A. (1969-2000) Theatre and Dance <i>B.A., Pennsylvania State University; M.A., Syracuse University</i>	Assistant Professor
CLAY, KENNETH (1965-1991) Technology/Dean of Academic Administration <i>B.S., Millersville State College; M.A., Ball State Univ.; Ed.D., Michigan State University</i>	Professor
COHEN, STANLEY (1961-1984) Educational Administration <i>B.S., Rutgers University; M.Ed., Ed.D., Temple University</i>	Professor

## The Emeriti

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<p>COLLINS, JOHN (1963-1994)          Communications  <i>B.S., West Chester State College; M.A., Penn State University; Ed.D., Temple University</i></p>	<p>Professor</p>
<p>COLLINS, JOHN J. (1969-1999)          Educational Leadership  <i>B.A., M.A., Glassboro State College; J.D., Rutgers University</i></p>	<p>Professor</p>
<p>COMBS, ETHEL (1967-1995)          Reading/Speech Correction  <i>B.A., Douglass College; M.A., Glassboro State College; Ph.D., Temple University</i></p>	<p>Associate Professor</p>
<p>CONRAD, GEORGE (1958-1979)          Art  <i>B.S., New York University; M.A., Ed.D., Columbia University</i></p>	<p>Professor</p>
<p>CORISON, CYNTHIA 1984-2009          Department of Communication Studies  <i>B.A., Lewis and Clark College; M.A., Ph.D., University of Oregon</i></p>	<p>Associate Professor</p>
<p>COVI, ADELYNE (1964-1984)          Elementary Education  <i>B.S., Washington University; M.A., Glassboro State College</i></p>	<p>Assistant Professor</p>
<p>CRAVER, RHYS (1963-1994)          Chemistry &amp; Physics  <i>B.S., Millersville State College; M.S., University of Delaware; Ph.D., Walden University</i></p>	<p>Associate Professor</p>
<p>CREAMER, MARVIN C. (1948-1977)          Geography/Anthropology  <i>B.S., L.H.D., Glassboro State College; M.S., Univ. of PA; M.S., Univ. of Wisconsin</i></p>	<p>Professor</p>
<p>DARRAH, GLADYS L. (1967-1979)          Health and Physical Education  <i>B.S., M.S., University of Wisconsin</i></p>	<p>Assistant Professor</p>
<p>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></p>	<p>Associate Professor</p>
<p>DELANEY, LAWRENCE (1964-1988)          Physical Sciences  <i>B.S., Trenton State College; M.S., Ed.D., University of Pennsylvania</i></p>	<p>Professor</p>
<p>DETRICK, FRED (1964-1987)          Foundations of Education  <i>B.A., M.S., Rutgers University</i></p>	<p>Associate Professor</p>
<p>DINSMORE, LEE (1971-2002)          Chemistry and Physics  <i>B.S., M.A., Glassboro State College</i></p>	<p>Professor</p>
<p>DONAGHAY, ROBERT (1963-1992)          Academic Advising  <i>B.S., University of Minnesota; Ph.D., University of Texas</i></p>	<p>Assistant Professor/Coordinator</p>
<p>DONAHUE, CHARLES T. (1960-2000)          English  <i>B.A., Texas A &amp; M University; M.A., University of Texas; Ph.D., Temple University</i></p>	<p>Professor</p>
<p>DOSKOW, MINNA (1986-2002)          English/Dean  <i>B.S., M.S., City College of N.Y.; M.A., University of Connecticut; Ph.D., University of Maryland</i></p>	<p>Professor</p>



## The Emeriti

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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
EDWARDS, ROBERT (1960-1991) Geography/Anthropology <i>B.A., M.A., University of Michigan</i>	Associate 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>	Asst Professor/Asst Director
ENGBRETSON, HERSCHEL (1969-1988) Communications <i>B.A., Taylor University; M.A., University of Pennsylvania</i>	Assistant Professor
ENSLIN, WILLIAM L. (1974-2000) Management/MIS <i>B.E., University of Pennsylvania; Ed.D., Rutgers University</i>	Associate Professor
FALZETTA, JOHN (1969-1988) Secondary Education <i>B.A., LaSalle College; M.A., Niagara University; Ed.D., Temple University</i>	Professor
FANSLAU, MARTHA C. (1971-1980) Library <i>B.A., University of Pennsylvania; M.A., Glassboro State College</i>	Librarian/Instructor
FOSTER, BRUCE (1970-2005) Reading <i>B.A., Trenton State College; M.S.Ed., Bucknell Univ.; Ed.D., Florida State University</i>	Professor
FOX, JOHN (1964-1990) Health and Physical Education <i>B.A.P.E., M.S.P.E., West Virginia University</i>	Assistant Professor
FRANKL, RAZELLE (1983-2000) Management/MIS <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
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 Ed/Educational Foundations <i>B.A., Western Maryland College; M.Ed., Ed.D., Temple University</i>	Professor

## The Emeriti

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GARRABRANT, WILLIAM (1973-2003) Interlibrary Loan & 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
GATES, RODNEY E. (1968-2000) Art <i>B.S., Univ. of Maryland; M.A., Glassboro State College</i>	Assistant Professor
GAYNOR, WILLIAM (1965-1987) <i>B.A., Georgetown Univ.; M.A., Fairfield Univ.; M.S., Villanova University</i>	Assistant Professor/Librarian
GEPHARDT, DONALD L. 1990-2009 Department of Music <i>B.M.E., Drake University; B.S., M.S., The Juilliard School; Ed.D., Washington University</i>	Professor
GERSHENOWITZ, HARRY (1965-1998) Biological Sciences <i>B.S., St. John's University; B.A., M.S., Long Island University; M.A., Columbia University; Ed.D., Columbia University</i>	Professor
GILLESPIE, JOHN (1972-1992) Communications <i>B.S., M.A., Glassboro State College</i>	Associate Professor
GLASSBERG, ROSE (1964-1991) Secondary Ed/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
GOODFELLOW, FRANK (1965-1999) Secondary Education <i>B.A., College of Wooster; M.S.L.S., Drexel Institute of Technology</i>	Associate Professor
GRACE, JAMES H. (1969-2000) Philosophy/Religion <i>B.A., M.Th., Drew University; M.A., Ph.D., Temple University</i>	Professor
GRAZIAN, FRANK (1968-1991) Communications <i>B.A., Rutgers University; M.S., Columbia University</i>	Associate Professor
GREEN, CHARLES H. (1962-1993) Life Sciences <i>B.S., Penn State Univ.; M.S., University of Delaware; Ph.D., Purdue University</i>	Professor
GRUPENHOFF, RICHARD 1981-2009 Department of Radio/Television/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 &amp; M University</i>	Associate Professor
GUNDAKER, ISABELLE (1983-2003) Composition & Rhetoric <i>B.A., Chestnut Hill College; M.A., Rutgers</i>	Instructor
GURST, LAWRENCE (1966-1993) Elementary Education <i>M.A.A., M.Ed., Temple University</i>	Assistant Professor

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HABA, JAMES (1972-2003) English <i>B.A., Reed College; Ph.D., Cornell University</i>	Associate Professor
HAYNES, ROBERT (1960-1991) Art <i>B.F.A., Colorado State College; M.A., Ed.D., Columbia University</i>	Professor
HENDERYCKSEN, M. HUGUETTE (1969-1991) Foreign Languages & Literatures <i>Licence, Aix en Provence Univ.; B.S., Shippensburg State College; M.Ed., Temple Univ.; M.A., University of Pennsylvania; Ph.D., Rutgers University</i>	Professor
HEWSEN, ROBERT H. (1967-1999) History <i>B.A., University of Maryland; M.S., Catholic University; Ph.D., Georgetown University</i>	Professor
HILTS, RICHARD (1962-1981) Music <i>B.M., Eastman School of Music; M.M., University of Oklahoma</i>	Professor
HITCHNER, BENJAMIN G. (1964-1998) 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&amp;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
JAEGER, PETER (1966-1981) Communications <i>B.A., Mexico City College; M.Ed., University of Houston</i>	Associate Professor
JAMES, HERMAN (1982-2007) <i>B.S., Tuskegee Institute; M.A., St. John's University; Ph.D., University of Pittsburgh</i>	President Emeritis
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) Political Science <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
JONES, JOHN (1968-1990) Foreign Languages and Literatures <i>B.A., M.A., University of Alabama; Diplome, Institut de Touraine, Tours, France</i>	Assistant Professor
KAPEL, DAVID (1988-2002) Secondary Ed/Foundations <i>B.S., M.Ed., Ed.D., Temple University</i>	Professor
KARDAS, WILLIAM (1968-2000) <i>B.S., M.L.S., Villanova University</i>	Head Reference Librarian
KELLER, HORACE (1960-1986) Psychology <i>B.S., West Chester University; M.Ed., Ed.D., Temple University</i>	Professor

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<p>KELLY, MICHAEL F. (1961-1998)  Theatre and Dance  <i>B.A., Elmhurst College; M.A., Ph.D., State University of Iowa</i></p>	<p>Professor</p>
<p>KERSHNER, E. THEODORE (1968-1998)  Health and Exercise Science  <i>B.S., Ursinus College, M.Ed., Temple University</i></p>	<p>Assistant Professor</p>
<p>KIRNER, CLARA (1971-1994)  <i>B.A., Rutgers University; M.A., Drexel University</i></p>	<p>Librarian</p>
<p>KLANDERMAN, JOHN (1986-2005)  Special Education  <i>B.A., Calvin College; M.A., Ph.D., Michigan State University</i></p>	<p>Professor</p>
<p>KUSHNER, WILLIAM (1970-1999)  Communication Studies  <i>B.A., Montclair State College; M.A., Temple University; Ph.D., Indiana University</i></p>	<p>Professor</p>
<p>LESHAY, STEVEN V. (1978-1999)  Marketing  <i>B.A., Lenoir Rhyne College; M.A., Glassboro State College; Ph.D., Temple University</i></p>	<p>Associate Professor</p>
<p>LIBRO, ANTOINETTE (1968-2002)  Communication  <i>B.A., Glassboro State College; Ph.D., New York University</i></p>	<p>Dean/Professor</p>
<p>LINT, JERRY N. (1964-1998)  Geography/Anthropology  <i>B.S., Clarion State College; M.Ed., Pennsylvania State University</i></p>	<p>Assistant Professor</p>
<p>LOIGMAN, BARRY M. (1970-1999)  Psychology  <i>B.A., M.A., Temple University; Ph.D., Rutgers University</i></p>	<p>Associate Professor</p>
<p>LONGACRE, DAVID (1961-1989)  <i>B.A., Gettysburg College; M.S., University of Pennsylvania</i></p>	<p>Education and Assistant Registrar</p>
<p>LYNCH, ROBERT D. (1973-1999)  Management/MIS  <i>B.S., M.S., Ph.D., Carnegie-Mellon University; SPHR</i></p>	<p>Professor</p>
<p>MARTIN, DORIS (1976-1987)  Home Economics  <i>B.S., Penn State University; M.S., Cornell University; Ed.D., Temple University</i></p>	<p>Assistant Professor</p>
<p>MARTIN, MARILYN (1995-2004)  Library Services  <i>B.A., M.L.S., Univ. of Washington; M.A., Univ. of Arkansas; Ph.D., Texas Woman's Univ.</i></p>	<p>Dean</p>
<p>MARTINEZ-YANES, FRANCISCO (1966-2008)  Foreign Languages and Literatures  <i>M.A., University of Rome, Italy; Diplôme, Alliance Française, Paris, France; Ph.D., University of Pennsylvania</i></p>	<p>Professor</p>
<p>MASAT, FRANCIS E. (1972-1998)  Mathematics  <i>B.A., Blackburn College; M.S., Kansas State University; Ph.D., University of Nebraska</i></p>	<p>Professor</p>
<p>MERCIER, J. DENIS (1967-2002)  Communication  <i>B.A., Marian College; M.A., Niagara University; Ph.D., University of Pennsylvania</i></p>	<p>Professor</p>
<p>MEYERS, DOROTHY (1967-1985)  <i>B.A., State University of Iowa; M.L.S., Rutgers University</i></p>	<p>Assistant Professor/Librarian</p>

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MICAL, AGNES (1968-1996) Health & Exercise Science <i>B.S., M.S., West Chester University</i>	Assistant Professor
MICHAELSON, JAMES (1967-1991) Secondary Ed/Ed. 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 Univ.</i>	Professor
MILLER, CLARENCE (1956-1992) Music <i>B.M.E., Mount Union College; M.M., Marshal University</i>	Professor
MITCHELL, RICHARD (1964-1991) English <i>B.A., University of the South; M.A., Ph.D., Syracuse University</i>	Professor
MITCHELL, ROBERT D. (1965-1997) Mathematics <i>B.S., M.A., University of Texas</i>	Associate Professor
MONAHAN, THOMAS 1984-2009 Department of Educational Leadership <i>B.A., LeMoyne College; Ed.M., Ed.D., Rutgers University</i>	Professor
MONROE, GERALD (1968-1986) 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 & Exercise Science <i>B.S., M.S., Southern Illinois University</i>	Assistant Professor
MORFORD, IDA B. (1956-1981) Psychology <i>B.S., Geneseo State College; M.A., Ph.D., Ohio State University</i>	Professor
MORRIS, WILLIAM C. (1968-1999) Theatre and Dance <i>B.A., DePaul University; M.A., Northwestern University; Ph.D., University of Illinois</i>	Professor
MOSTO, PATRICIA 1993-2009 Department of Biological Sciences <i>National Teacher Certification, Teachers College N6; Licenciada in Biology (M.S.), University of Buenos Aires; M.A. equivalent, The University of Texas at Austin; M.S., Drexel University; Ph.D., University of Buenos Aires</i>	Professor
MOYER, MEL (1967-2000) Psychology <i>B.A., Glassboro State College; M.Ed., Temple University; Ed.D., Rutgers University</i>	Associate Professor
MURASHIMA, KUMIKO (1971-2007) Art <i>B.F.A., Women's College of Fine Arts, Japan; M.F.A., Indiana University</i>	Associate Professor
McCONNELL, HELEN (1965-1995) Home Economics <i>B.S., State Univ. College, Oneonta, NY; M.A., Columbia Univ.; Ph.D., Michigan State University</i>	Professor

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McCRANN, VIRGINIA E. (1968-1985) Home Economics <i>B.A., M.Ed., Rutgers University</i>	Assistant Professor
McKENZIE, JAMES J. (1954-1980) English <i>B.A., Canisius College; M.A., Ph.D., Harvard University</i>	Professor
McLEAN, DESMOND (1966-2002) Art <i>B.A., Newark State College; M.A., Hunter College</i>	Associate Professor
NEFF, GEORGE (1962-2000) Art <i>B.S., Kutztown University; M.A., Columbia University; Ed.D., Pennsylvania State University</i>	Professor
NICHOLS, LOLA (1960-1986) Elementary Education <i>B.S., Trenton State College; M.A., Columbia University; M.A., Glassboro State College</i>	Assistant Professor
NORTON, DONALD (1961-1983) Music <i>B.S., Western Michigan University; M.A., University of Maryland; Ed.D., Columbia Univ.</i>	Professor
O'DAY, SHIRLEY (1963-1990) Health and Physical Education <i>B.S., University of Delaware; M.Ed., West Chester State College; Ed.D., Temple University</i>	Professor
OGNIBENE, GERALD (1972-2008) Special Education <i>B.A., Niagara University; M.S., Canisius College; Ph.D., Ohio State University</i>	Professor
ORLANDO, FRANK J. (1972-2008) Foundations of Education <i>B.S., M.S., SUNY-Buffalo; Ed.D., West Virginia University</i>	Associate Professor
PALLADINO, MARY ANNE (1964-1994) Communications <i>B.A., Immaculata College; M.A., Villanova University</i>	Professor
PERRY, WILHELMINA E. (1968-1997) Sociology <i>B.A., Tilton College; M.A., Howard University; Ph.D., University of Texas</i>	Professor
PICKETT, ETHEL (1968-1987) Home Economics <i>B.S., University of Delaware; M.Ed., University of Maryland</i>	Assistant Professor
PIKE, FRANK (1964-1987) English <i>B.A., Suffolk University; M.A., Boston College; M.Ed., State College at Boston</i>	Assistant Professor
PITTARD, NORMA (1968-1987) Art <i>B.A., Adelphi University; M.A., Columbia University; Ph.D., University of Maryland</i>	Assistant Professor
PORTERFIELD, RICHARD (1961-1998) 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

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<p>PUJALS, ENRIQUE J. (1969-2000)  Foreign Languages and Literatures  <i>B.A., M.A., Indiana State University; Ph.D., Rutgers University</i></p>	<p>Professor</p>
<p>PUTMAN, MARY LEE (1971-2008)  Health &amp; Exercise Science  <i>B.S., SUNY College at Cortland; M.A., University of Maryland; Ph.D., Temple University</i></p>	<p>Associate Professor</p>
<p>REEVES, EDWIN C. (1968-1996)  Reading  <i>B.A., M.A., Glassboro State College</i></p>	<p>Assistant Professor</p>
<p>REINFELD, GEORGE (1956-2002)  Communication  <i>B.A., M.A., Montclair State College</i></p>	<p>Professor</p>
<p>RESNIK, BENJAMIN (1965-1991)  Communications  <i>B.A., M.A., Glassboro State College</i></p>	<p>Assistant Professor</p>
<p>RICHARDSON, HERBERT A. (1966-1998)  History  <i>B.M., M.M., Yale University; M.A., Ph.D., University of Pennsylvania.</i></p>	<p>Assistant Professor</p>
<p>ROBINETTE, JOSEPH (1981-2005)  Theatre/Dance  <i>B.A., Carson-Newman College; M.A., Ph.D., Southern Illinois University</i></p>	<p>Professor</p>
<p>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></p>	<p>Associate Professor</p>
<p>ROWAND, EDITH T. (1966-2000)  Health and Exercise Science  <i>B.S., The King's College; M.S., West Chester State College</i></p>	<p>Assistant Professor</p>
<p>SAKIEY, ELIZABETH (1974-2000)  Reading  <i>B.S., Eastern Michigan University; M.Ed., Ed.D., Rutgers University</i></p>	<p>Professor</p>
<p>SALERNO, ANTHONY (1976-1997)  Law/Justice  <i>B.A., University of Delaware; M.A., Rutgers University</i></p>	<p>Assistant Professor</p>
<p>SCHREIBER, ELLIOTT (1967-1995)  Psychology  <i>B.A., Upsala College; M.A., Bradley University; Ed.D., West Virginia University</i></p>	<p>Associate Professor</p>
<p>SCHWARZ, CHARLES (1967-1999)  Mathematics  <i>B.A., St. John's University; M.S., Fordham University; M.S., Adelphi University; Ed.D., Rutgers University</i></p>	<p>Assistant Professor</p>
<p>SCOTT, JOANNE 1989-2009  Department of Biological Sciences  <i>B.S., Bucknell University; M.A., Lehigh University; M.S., Bucknell University; Ph.D., University of Texas, Medical Branch at Galveston</i></p>	<p>Associate Professor</p>
<p>SERFUSTINI, LEONARD (1971-1986)  Health and Physical Education  <i>B.Ed., M.Ed., University of Buffalo; Ed.D., State University of New York</i></p>	<p>Professor</p>
<p>SHAWVER, MURL C. (1958-1974)  Life Sciences  <i>B.S., Central Missouri State College; M.Ed., Univ. of Missouri; Ed.D., Columbia Univ.</i></p>	<p>Professor</p>

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<p>SHONTZ, MARILYN L. 1999-2009          Department of 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></p>	<p>Associate Professor</p>
<p>SHRADER, EDITH (1959-1968)          Early Childhood Education  <i>B.S., M.S., Glassboro State College</i></p>	<p>Demonstration Teacher</p>
<p>SIMPSON, EUGENE (1975-2000)          Music  <i>B.M., Howard University; B.M., M.M., Yale University; Ed.D., Columbia University</i></p>	<p>Professor</p>
<p>SIZEMORE, WARNER (1966-1987)          Philosophy/Religion  <i>B.A., East Tennessee State; M.A., Bob Jones University; M.A., Temple University; B.D., Lincoln University Theological Seminary</i></p>	<p>Assistant Professor</p>
<p>SMITH, RICHARD R. (1964-1999)          Educational Leadership  <i>B.A., M.A., Glassboro State College; Ed.D., Temple University</i></p>	<p>Professor</p>
<p>SMITH, STEWARD (1968-1983)          Elementary Education  <i>B.A., Rutgers University; M.Ed., Temple University</i></p>	<p>Assistant Professor</p>
<p>SORRENTINO, CARMELA 1965-2009          Department of Teacher Education (Early Childhood, Elementary Education, Subject Matter)  <i>B.S., West Chester State College; M.Ed., Temple University</i></p>	<p>Assistant Professor</p>
<p>SPEAR, MIRIAM (1967-1983)          Secondary Education  <i>B.A., M.S., Glassboro State College</i></p>	<p>Assistant Professor</p>
<p>STANLEY, DANIEL (1966-1991)          Health and Physical Education  <i>B.Ed., Univ. of Buffalo; M.Ed., State Univ. of New York; Ed.D., Temple University</i></p>	<p>Professor</p>
<p>STEVENS, KATHLEEN (1972-1998)          Communication  <i>B.A., Georgian Court College; M.A., Glassboro State College (Rowan)</i></p>	<p>Associate Professor</p>
<p>STONE, DON C. (1968-2000)          Computer Science  <i>E. Eng. Phys., Cornell University; M.S.E., Ph.D., University of Pennsylvania</i></p>	<p>Associate Professor</p>
<p>SULLIVAN, JANE E. (1972-1999)          Reading  <i>B.S., Seton Hall University; M.S., Ed.D., State University of New York, Albany</i></p>	<p>Professor</p>
<p>TANEY, MARY C. (1967-1991)          History  <i>B.A., College of Saint Teresa; M.A., Ph.D., Catholic University; Litt.D., Universita Cattolica del Sacro Cuore, Milan, Italy</i></p>	<p>Professor</p>
<p>TANNENBAUM, MARGARET D. (1971-2000)          Secondary Education  <i>B.A., Bryan College; M.Ed., Ed.D., Temple University</i></p>	<p>Professor</p>
<p>TANNENBAUM, THEODORE (1973-1998)          Sociology  <i>B.A., M.A., Brooklyn College; Ph.D., Purdue University</i></p>	<p>Professor</p>
<p>TAYLOR, ALBERT (1964-1987)          Foundations of Education  <i>B.S., Trenton State College; M.Ed., Ed.D., Rutgers University</i></p>	<p>Professor</p>



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TENER, MORTON (1968-2008)	Professor
Secondary Education	
<i>B.S., Rider College; M.S., University of Pennsylvania; M.S., Ed.D., Temple University</i>	
THYHSEN, JOHN (1969-2000)	Professor
Music	
<i>B.M., M.M., Eastman School of Music</i>	
TISHLER, JOSEPH (1964-2000)	Professor
Art	
<i>Cresson Scholar, Pennsylvania Academy of Fine Arts; B.F.A., M.F.A., University of Pennsylvania; D.A., Carnegie-Mellon University</i>	
TOMEI, MARIO (1964-1995)	Professor
Educational Administration	
<i>B.A., Montclair State College; M.S., University of Pennsylvania; Ed.D., Temple University</i>	
TRACEY, JAMES H. (1994-2000)	Dean/Professor
College of Engineering	
<i>B.S.E.E., M.S., Ph.D., Iowa State University</i>	
TRAVIS, DAVID (1962-1991)	Associate Professor
Mathematics	
<i>B.S., New Mexico State University; M.S., Oklahoma State University; Ed.D., University of Northern Colorado</i>	
TRAVIS, WILLIAM (1971-2007)	Professor
Art	
<i>B.F.A., Philadelphia College of Art; M.F.A., Tyler School of Art</i>	
TSUJI, THOMAS (1969-1995)	Professor
Technology	
<i>B.S., M.S., Stoudt State College; Ph.D., Michigan State University</i>	
VIVARELLI, THOMAS (1967-2004)	Assistant Professor
Special Education	
<i>B.A., Trenton State College; M.A., Glassboro State College</i>	
VOGAL, HAL (1984-2005)	Professor
Public Relations/Advertising	
<i>B.A., Temple University; M.A., William Paterson College; Ph.D., Antioch University; APR</i>	
WACKAR, RICHARD (1956-1988)	Professor
Health and Physical Education	
<i>B.S., M.A., Rutgers University</i>	
WADE, THOMAS 1976-2009	Assistant Professor
Department of Music	
<i>B.M., Oberlin College; M.M., University of Connecticut</i>	
WARD, HUGH J. (1959-1976)	Associate Professor
Foundations of Education	
<i>B.S., M.A., Glassboro State College</i>	
WARING, JOSEPH C. (1966-1991)	Associate Professor
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>	
WASHINGTON, JUDY 1971-2009	Associate Professor
Department of Teacher Education (Early Childhood, Elementary Education, Subject Matter)	
<i>B.A., Brooklyn College; M.Ed., Ed.D., Temple University</i>	
WASSERMAN, BURTON (1960-2003)	Professor
Art	
<i>B.A., Brooklyn College; M.A., Ed.D., Columbia University</i>	

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WEAR, BARBARA (1973-1999) Elementary/Early Childhood Education <i>B.A., Trenton State College; M.S.W., Rutgers University</i>	Assistant Professor
WELSH, CHARLES (1973-1992) Marketing <i>B.S., Villanova University; M.B.A., Ph.D., University of Pennsylvania</i>	Professor
WHITCRAFT, JOHN (1963-1987) Philosophy/Religion <i>B.A., Asbury College; M.A., Temple Univ.; B.D., Asbury Seminary; S.T.M., Boston Univ.</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
WICKS, LAWRENCE (1962-1997) Music <i>B.M., M.M., Ithaca College</i>	Associate Professor
WILLIAMS, LEONARD J. 1990-2009 Department of Psychology <i>B.A., University of Delaware; M.A., McMaster University, Hamilton, Ont.; Ph.D., University of South Carolina</i>	Associate Professor
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) English <i>B.A., M.A., Ph.D., University of Pennsylvania</i>	Professor
WOOD, A. TAGE (1968-1987) Speech/Theatre/Dance <i>B.S., East Stroudsburg State College; M.Ed., University of South Dakota</i>	Associate 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/Director of Support Services
YANNELLA, DONALD (1964-1991) English <i>B.S., M.A., Ph.D., Fordham University</i>	Professor
YOUNG, FLORA (1968-1995) Sociology <i>B.A., M.A., Howard University; Ed.D., University of Pennsylvania</i>	Professor
YOUNG, WALTER BYRON (1972-1997) Art <i>B.A., M.A., Glassboro State College; Ed.D., Pennsylvania State University</i>	Professor
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

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ZIMMERMAN, DONALD (1961-1992) Elementary/Early Childhood Education <i>B.S., M.A., State University of New York, Buffalo; Ed.D., Temple University</i>	Professor
ZINK, THEODORE (1966-1987) Law/Justice <i>B.S., M.S., University of Delaware; Ed.D., Temple University</i>	Professor

## General Information

### Campus Buildings

#### **Alvin Shpeen Hall**

Named for the late mayor of Glassboro, an advocate for better town-gown relations, this restored downtown facility had been the old vacant Academy Street School. Purchased in 2001, it houses Rowan's Management Institute, Education Institute and Center for Addition Studies plus the Child and Family Assessment Clinic and Tobacco Dependency Clinic.

#### **Bole Annex**

Opened in the spring of 1970, the Annex houses University Public Safety, University Marketing and Institutional Research and Planning.

#### **Bozorth Hall**

Named for former registrar Loriot D. Bozorth, the building opened in 1954 as the campus elementary school. Renovated in 1985 and 1994, Bozorth now houses the College of Communication offices and classrooms, a distance learning facility, television studios, WGLS radio, film editing suites, a computer-equipped newsroom, an advertising/public relations client suite, layout room and writing lab.

#### **Carriage House**

Built in 1849 adjacent to the former Whitney mansion (now Hollybush), the Carriage House contains University Publications and the ROTC program.

#### **Cassady Maintenance Building**

Opened in the summer of 1971 the Cassady Maintenance Building houses central receiving and as well as the carpentry, electrical and plumbing shops.

#### **Chestnut, Magnolia and Willow Halls**

Built during a campus expansion in the 1980s, Chestnut, Magnolia and Willow Halls house up to 800 students combined. Arranged in same-gender suites that can accommodate five to 16 students, each suite shares a large common bathroom and lounge. Hallways and lounges are carpeted and furnished with couches and chairs. Rooms are furnished and wired for Internet, cable TV and phone service.

#### **Edgar F. Bunce Hall**

The original building on campus, Bunce Hall was built in 1923 and is named for the second president of Rowan University. Bunce houses the College of Business and the departments of Economics, English, Foreign Languages and Literatures, Philosophy and Religion, and Theatre and Dance. This building also houses the Tohill Auditorium and has classroom space.

#### **Edgewood Park Apartments**

This four-building complex opened in the fall of 1974. Each building houses 24 apartments and up to four students live in each. Apartments contain two bedrooms, a living room, dining room, kitchen and bath. The apartments are carpeted, furnished and air-conditioned and limited parking is available for residents.

#### **Education Hall**

New in January 2006, Education Hall is home to the College of Education, its 120 faculty and staff and nearly 2,500 education majors. The three-story, 135,000 square-foot facility features smart classrooms, distance learning facilities, an early childhood development center and an assortment of labs and outreach centers.

### **Esby Gym**

The Roland A. Esbjornson Health and Physical Education Center, "Esby" houses the gymnasium, a swimming pool and classrooms. The building is named for 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 with each containing two double bedrooms and a bathroom.

### **Hawthorn Hall**

Formerly a student residence facility, Hawthorn was renovated in 1986 and again in 2001 to house offices and classrooms for the College of Communication.

### **Henry M. Rowan Hall**

Home to the College of Engineering, the 95,000 sq. ft. building was designed for maximum flexibility in teaching and research. It features terrestrial and wireless networking, three floors of offices, classrooms, labs and a 115-seat auditorium.

### **Hering Central Heating and Cooling Plant**

Sheathed almost entirely in glass, this facility provides heating and cooling for the entire campus. An \$11 million upgrade to the plant, begun in 2006, will enable it to generate 80 percent of Rowan's electricity upon completion. The plant creates steam as a by-product which is used for heating, hot water and air conditioning.

### **Hollybush Mansion**

Originally the Whitney Mansion, Hollybush was built in 1849 and served as a dormitory and then as the university president's private residence until 1998. The building was the site of the historic 1967 summit meeting between President Lyndon B. Johnson and Soviet Premier Alexei B. Kosygin. Hollybush is being restored and renovated into a museum and meeting center.

### **John B. Sangree Greenhouse**

Built in 1923 adjacent to Bunce Hall, the university's original greenhouse remains a functioning glassed-in botanical garden. It is named for the university's first biology teacher, a charter faculty member of the Glassboro Normal School.

### **John Green Team House**

Opened in the summer of 1971, the Team House contains locker and training facilities as well as offices for intercollegiate athletics and coaches.

### **Keith and Shirley Campbell Library**

Opened in 1995, Rowan University's central library features 118,000 square feet of space for research, study, archives and offices. Designed with a striking six-story tower, the highest point on campus, the library, renamed in 2000 for benefactors Keith and Shirley Campbell, is the intellectual heart of the University. The library has a computer lab, seating on four floors, and special facilities for group study and conferences. Collections include more than 350,000 volumes and there are subscriptions to approximately 3000 periodicals.

### **Laurel and Oak Halls**

Originally built as residence halls, these buildings were used as administrative offices for a number of years. In 1998, they were renovated and now serve as residence halls again housing 45 students in each hall.

### **Linden Hall**

Formerly a student residence facility, Linden Hall houses the office of human resources, the student health center, the facilities management office, the safety office and the offices of the vice president for administration and finance.

### **Mansion Park Apartments**

The University owns and operates this complex of 24 one-bedroom and 50 two-bedroom apartments. These on-campus apartments offer an independent living environment in which residents are required to pay for electrical service for heat, hot water and cooking.

### **Mark M. Chamberlain Student Center**

The Chamberlain 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 offices, including Student Center Administration, and student offices such as Student Government Association, Student University Programmers and Student Publications. The following facilities and/or services are located in the three-level center; the information desk, the ID room, the mail room, an ATM machine, change machine, the game room, a laundry facility, the Eynon Ballroom, meeting and conference rooms and eating areas, including the Marketplace, a food court, Jazzman's CafE9 and the Owl's Nest.

### **Memorial Hall**

Opened in 1956, Memorial now serves as the university's center for information resources. Housed here are offices for the associate provost for Information Resources, Enterprise Information Services, Instructional Technology, Network & System Services, the Support Desk, and Duplicating Services. Memorial is also home to Web Development, the Graduate School, the Office of Government Grants, and studios for the Department of Theatre & Dance.

### **Mimosa Hall**

This freshmen resident hall houses up to 340 students on four floors. Mimosa is located centrally on campus and contains same-gender suites made up of 2-3 rooms that share a common bath.

### **Mullica Hall**

Located adjacent to an oak grove on the south side of campus, Mullica houses up to 103 students on three floors. Each floor consists of same-gender suites that contain two double bedrooms and a bath.

### **R. Grace Bagg Alumni Center**

Named in honor of a Rowan administrator who served the university for 48 years, the center on Whitney Avenue is headquarters for the Rowan University Alumni Association and the Office of Corporate and Foundation Relations.

### **Robert D. Bole Hall**

Bole is the administrative center of the University, home to the offices of the President, Provost, Executive Vice President for University Advancement, Associate Provost for Academic Affairs, Associate Provost for Faculty Affairs and University Relations.

### **Robinson Hall**

Named after Thomas E. Robinson, the university's third president, Robinson Hall is home to many of the departments within the College of Liberal Arts and Sciences, the largest college at Rowan. Housed here are offices for the departments of Computer Science, Geography/Anthropology, History, Mathematics, Political Science, Psychology and Sociology. Robinson is also home to the International Center, the LAS Institute and McSiip.

### **Savitz Hall**

Named for Jerohn Savitz, the first president of the University, Savitz Hall houses student services offices including the Registrar, Bursar and Financial Aid, the Vice President for Student Affairs, the Dean of Students, Career and Academic Planning, Developmental Education, Tutoring, Basic Skills and Testing, Admissions, Counseling, Residence Life, Multicultural/international Affairs, Specialized Services and the offices of EOF/MAP.

### **Science Hall**

Dedicated in 2003, the facility features a 102-seat planetarium, rooftop observatory with 16-inch telescope, and rooftop greenhouse. Its 150,000 square feet of space is spread over 6 floors. There are 27 teaching laboratories and 22 research labs.

### **Seymour Winans Hall**

Home to the University bookstore, Winans is named for a former faculty member and is home to the University bookstore. The store sells all required textbooks, school and art supplies, Rowan gifts and clothing, toiletries and foodstuffs. It also offers such services such as resume printing, film developing, and cap and gown rentals.

### **South Jersey Technology Park at Rowan University**

A mixed research and academic campus at the intersection of Routes 322 and 55, the South Jersey Technology Park at Rowan University is designed as a massive business incubator to spur the economic revitalization of southern New Jersey through science and technology. Once complete it will be an integral part of the proposed 580-acre Rowan University West Campus.

### **Student Recreation Center**

Opened in 1993, the student recreation center adjacent to Esby Gym is a comprehensive recreation sports facility. The three-story, 76,000 square-foot center houses an 8-lane swimming pool (linked by a doorway to the Esby pool), a 3-lane indoor running track, a 3-court multi-sport gym, five racquetball courts, an aerobics room, fitness and free-weight rooms, a conference room, and men's and women's locker rooms.

### **Townhouses**

Opened in the fall of 2004, the on-campus, 113-unit townhouse complex along Route 322 features four- and six-bedroom configurations nearby 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 Hall**

Located at the intersection of Route 322 and Bowe Blvd., Triad Hall is one of four on-campus student apartment complexes. The individual apartments are designated same-gender units and each floor is co-ed. Available are 1-, 2- or 3-bedroom units that can accommodate 2, 4, or 6 students. Each apartment is carpeted and fully furnished with a living room, bathroom and kitchen. There is a large laundry facility on the second floor and the site offers ample parking for all residents.

### **Westby Hall**

Completed in 1967, Westby houses the Art Department for the College of Fine and Performing Arts. Named in honor Cleve O. Westby, a former director of county and state college construction, Westby contains comprehensive laboratories, classrooms, a lecture hall, faculty offices, the Westby Gallery, the graphics communication technology center and a darkroom.

### **Wilson Hall**

Wilson Hall, which was named for former Rowan University faculty member Harold Wilson, opened in the spring of 1972 as the central music facility. It contains two large rehearsal rooms, a recital hall,

## General Information

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numerous practice rooms, classrooms, two student lounges, a music library, faculty offices, the concert box office and the W. Clarke Pfleeger Hall (a 1,000 seat auditorium). Offices for the dean of the College of Fine & Performing Arts, the Music Department, and the Law and Justice Studies Department are also located in Wilson.



## Academic Calendar

### ACADEMIC YEAR 2009-2010

#### Fall Semester

Convocation  
Labor Day (no classes)  
Semester Classes Begin  
1st Quarter Concludes  
Election Day (no classes)  
Thanksgiving Recess (no classes)  
2nd Quarter Concludes  
Finals Week  
Fall Semester Concludes

#### Spring Semester

Spring Semester Begins  
3 Quarter Concludes  
Spring Break (No Classes)  
Good Friday (No Classes)  
4th Quarter Concludes  
Finals Week  
Semester Concludes  
Commencement - Graduate  
Commencement - Undergraduate

#### Summer Sessions

Memorial Day (no Classes)  
Fourth of July (no Classes)  
Session 1 - First 3 weeks  
Session 2 - 8 weeks  
Session 3 - First 5 weeks  
Session 4 - Second 5 weeks  
Session 5 - Second 3 weeks

\*Includes either Memorial Day, Fourth of July, or both

#### Fall 2009

Sunday, August 31  
Monday, September 1  
Tuesday, September 2  
Monday, October 20  
Tuesday, November 4  
Thursday-Friday, November 27-28  
Friday, December 12  
Monday-Friday, December 15-19  
Friday, December 19

#### Spring 2010

Tuesday, January 20rd  
Monday, March 9  
Monday-Friday, March 16-20  
Friday, April 10  
Monday, May 4  
Tuesday-Saturday, May 5-9  
Saturday, May 9  
Thursday, May 14  
Friday, May 15

#### Summer 2010

Monday, May 25  
Friday, July 3  
May 18 - June 4 \*  
June 8 - July 30 \*  
May 18 - June 18 \*  
June 22 - July 23 \*  
July 27 - August 13

## **Administrative Offices Telephone Numbers**

Academic Affairs	256-4011
Academic Success Center	256-4259
Admissions	256-4200
Bursar	256-4150
Camden Campus	756-5400
Career and Academic Planning	256-4456
Conference and Event Services	256-5446
Counseling and Psychological Service Center	256-4222
Dean, Business	256-4025
Dean, Communication	256-4340
Dean, Education	256-4750
Dean, Engineering	256-5300
Dean, Fine and Performing Arts	256-4550
Dean, Liberal Arts and Sciences	256-4850
Dean, Professional and Continuing Education	256-4129
Dean of Students	256-4040
Development Office	256-5410
Disability Resources	256-4234
EOF/MAP	256-4087
Financial Aid	256-4250
Information Resources	256-4401
Judicial Affairs	256-4242
Library	256-4800
Main Switchboard	256-4000
Multicultural Affairs	256-4448
President	256-4100
Provost	256-4108
Public Safety	256-4922
Recreation Center	256-4900
Registrar	256-4350
Service Learning and Volunteerism	256-4595
Specialized Services	256-4233
Student Activities	256-4696
Student Center	256-4601
Student Health Center	256-4333
VP Administration and Finance	256-4140
VP Student Affairs	256-4283
VP University Advancement	256-4095
VP University Relations	256-4100

## Directions to Campus

**DIRECTIONS TO GLASSBORO CAMPUS** Rowan University is located in the southern New Jersey town of Glassboro, 18 miles southeast of Philadelphia. The campus is easily reached from the N.J. Turnpike, the Atlantic City Expressway, or any of the Delaware River bridges. For a detailed campus map go to

[http://www.rowan.edu/campus\\_map](http://www.rowan.edu/campus_map)

**From the North** (Northern New Jersey, New York, etc.) Take the N.J. Turnpike South to Exit 2 and take Route 322 East. At the first traffic light (3 miles) turn right and then bear left (.4 miles) to stay on Route 322. Continue on Route 322 (7 miles) to the campus.

**From Philadelphia** Take the Walt Whitman or Benjamin Franklin Bridge to I-676 South toward Atlantic City. Shortly after I-676 becomes Route 42 South, the Atlantic City Expressway, exit right onto Route 55 South. Take that to exit 50A (Glassboro Mullica Hill). Take Route 322 East (2 miles) to the campus.

**From the West** Take I95 to the Commodore Barry Bridge. Follow Route 322 East (15 miles) to the campus.

**From Central New Jersey** Take Route 70 West to I-295 South. Follow I-295 to Route 42 South, the Atlantic City Expressway. Exit Route 42 South onto Route 55 South. Follow that to exit 50A (Glassboro Mullica Hill). Take Route 322 East (2 miles) to the campus.

**From the East** Take the Garden State Parkway to the Atlantic City Expressway Route 42. Take the Expressway to Exit 38 (Williamstown). Turn left after exiting and follow Route 322 West (8 miles) to the campus.

**From the South** (Maryland, Delaware, etc.) Take I-95 North to the Delaware Memorial Bridge. Take the N.J. Turnpike to Exit 2 and follow Route 322 East (10 miles) to the campus.

**DIRECTIONS TO THE CAMDEN CAMPUS** Rowan University at Camden is located in the University District of the City of Camden on the corner of Broadway and Cooper Streets. It can easily be reached from Route 295, the Atlantic City Expressway Route 42, I-676 or any of the Delaware River bridges.

**From South Jersey** Follow Route 42 toward Walt Whitman Bridge. Take I-676 North to last exit before the Ben Franklin Bridge (exit 5B, Linden Street). At the light, turn left, at next light turn left and cross overpass. At next light (Cooper Street), turn right. Campus is at corner of Broadway and Cooper Street.

**From Philadelphia** Take the Ben Franklin Bridge. Take exit for Broadway. Campus is located on the left on the corner of Broadway and Cooper Street.

**From the North and South** Take the New Jersey Turnpike (North or South) to exit 4. Take 73 North to 38 West to 30 West. Route 30 becomes Admiral Wilson Blvd. As you approach Camden, remain in right lane proceeding to Ben Franklin Bridge. At the last light before the bridge, turn left and drive over the overpass. At next light (Cooper Street) turn right. Campus is at the corner of Broadway and Cooper Street.

**From the West** (Routes 70 & 38) Proceed West toward Philadelphia to 30 West. Route 30 becomes Admiral Wilson Blvd. As you approach Camden remain in right lane proceeding to Ben Franklin Bridge. At the last light before the bridge, turn left and cross the overpass. At next light (Cooper Street) turn right. The campus is on the corner of Broadway and Cooper Street.

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