Please the course title below to read the course description.

Honors Biomedical Art: Introduction to Digital 3D Modeling
Honors Calculus I
Honors Chemistry I
Honors Children’s Literature: Texts and Contexts
Honors College Composition I
Honors College Composition II
Honors Cultural Geography: Why Place Matters
Honors Data Structures & Algorithms
Honors Discrete Structures
Honors Earth, People, and Environment
Honors Exploring Social Issues thru Theatre
Honors Freshman Engineering Clinic
Honors Human Exceptionality
Honors Introduction to Astronomy
Honors Introduction to Cell Biology
Honors Introduction to Electricity & Magnetism
Honors Introduction to Mapping and Geographic Information
Honors Introduction to Object Oriented Programming
Honors Introduction to Philosophy
Honors Introduction to Programming Using Robots
Introduction to Scientific Programming - JAVA
Honors Leadership and Service Training
Honors Molecular Genetics
Honors Operations Management
Honors Organic Chemistry I
Honors Philosophy of Science-WI
Honors Public Speaking
Honors Rhetoric of Photography
Honors Shakespeare I
Honors Sophomore Engineering Clinic I
Honors Songs of Praise, Songs of Protest
Honors Statistics I
Honors Topics in Global History: African Medicine
Honors Topics in Literature: Science and Literature: Modern Times
Honors Women and Gender in Perspective
Biomedical Art: Introduction to Digital 3D Modeling

Computer designed 3-dimensional models visualize information and represent conceptually powerful tools to display content virtually as well as describe surfaces that are not able to be physically touched. Computer graphics and modeling have a long history and evolution from medical and scientific applications to contemporary film, video, art and animation. 3D models can help us reconstruct our world, objects and information to help us explain and visualize both simple and complex problems. Additionally, learning the design process from a sketched idea, to prototype iteration, to developing a final virtual model, gives us access to realize and invent ideas or expand upon research.

This honors course is designed to cover concepts and techniques to create digital 3D organic and inorganic surfaces, whereby virtual models are designed and rendered to solve specific problems in art, science, and engineering. A series of lectures on the history and context of virtual modeling, with technique demonstrations and hands-on interdisciplinary projects will allow students to visualize research in their major discipline. Topics range from specific types of 3D model construction, including primitive, polygonal modeling, spline and free form sculpting with integrating the types of visualizations best used for modeling (from data-driven to creative) applications. (3.0 credits)

Artistic and Creative Experience; Artistic Literacy

CRN 42749 ART 09253.2
TR 11:00 – 1:45 pm Westby 216

Amanda Almon, almon@rowan.edu
Department of Radio, TV & Film

Back to top
Honors Calculus I

Come learn the historical origins of calculus and the philosophical battle between its greatest contributor, Sir Isaac Newton, and the Bishop George Berkeley.

Debate with your fellow classmates the existence of infinity $\infty$ and infinitesimals.

Learn how to approach concepts rigorously AND not to “hand-wave” your way through mathematics!

This course will engage students to critically examine the ideas of a mathematical limit, derivative, and integral as developed by Sir Isaac Newton and his contemporaries. Motivation for class discussions will stem from the historical development of calculus, the influence of celestial mechanics, the philosophical struggle to establish calculus on a more rigorous foundation, and the tremendous power of calculus to solve many physical problems. (4.0 credits)

Science and Mathematics; Quantitative Literacy

CRN 42679 MATH 01130.11
TR 11:00 – 12:15 pm Robinson 324
F 11:00 – 12:15 pm James 2101

Olcay Ilicasu, ilicasu@rowan.edu
Department of Mathematics

Back to top
Honors Chemistry I

This course presents the basic principles involved in the study of chemistry. It emphasizes modern theories and laws used in the understanding of the structures and reactions of the elements and compounds and also includes gas laws, stoichiometry, and solution theory. (4.0 credits)

Lab Science; Science and Mathematics; Scientific Literacy

CRN 42741 CHEM 06100.27
M 8:00 – 10:45 am Science 322
TR 8:00 – 9:15 am Science 314

TBA
Department of Chemistry & Biochemistry

Back to top
Honors Children’s Literature: Texts & Context

Place is an essential part of literature for children, from the halls of Hogwarts to the stolen prairies of Laura Ingalls Wilder's Kansas to the far-away land where the Wild Things are. But although we may think of place as simply the setting in which the story occurs, place is always something that is socially constructed: the product of human beings' interactions, practices, and decisions that reflect their environments. Throughout the semester, students in this course will use multidisciplinary theory and criticism from the academic subfields of human geography and children’s literature to examine the ways different texts participate in the representative constructions of place and space for children. We’ll explore primary works’ formal structure, narrative content, and historical context, in the process dismantling the common belief that children’s literature and culture are “simple.” By considering the aesthetic, historical, cultural, and geographical implications of these texts for children, we’ll discover how place helps form our ideological conceptions of childhood. (3.0 credits)

History, Humanities, Language; Literature
CRN 42710 HONR 05205.1

Social & Behavioral Sciences; Literature
CRN 42714 HONR 05290.1

TR 2:00 – 3:15 pm Whitney 201

Katharine Slater, slaterk@rowan.edu
Department of English

Back to top
Honors College Composition I:

Topics and descriptions coming soon. (3.0 credits)

Communication; Communicative Literacy

CRN 42684 HONR 01111.1
MW 9:30 – 10:45 pm Whitney 202
TBA
Department of Writing Arts

CRN 42685 HONR 01111.2
MW 12:30 – 1:45 pm Whitney 202
TBA
Department of Writing Arts

CRN 42687 HONR -1111.3
TR 3:30 – 4:45 pm Whitney 202
TBA
Department of Writing Arts

Back to top
Honors College Composition II:

Topics and descriptions coming soon. (3.0 credits)

Communication; Communicative Literacy

CRN 42687 HONR 01112.1
MW 2:00 – 3:15 pm Whitney 202
TBA
Department of Writing Arts

CRN 42688 HONR 01112.2
TR 9:30 – 10:45 pm Whitney 202
TBA
Department of Writing Arts
Honors Cultural Geography: Why Place Matters

Culture is what we humans do. Culture is material stuff (what you wear), social ideas (what you believe), everyday practices (your habits, how you get around), emotional responses (emoji use), and much more! Geography is fundamentally concerned with the question of place. Consider the ways classrooms, bedrooms, and boardrooms each connote different types of places that inspire different types of culture (what humans do). The basic assertion of a geographic approach to culture is that place matters.

Cultural geographers bring a place-based focus to the study of all kinds of human activity by considering, most basically, where does an activity occur and why. Or put differently, what is happening where? And with what effects? A geographic approach reveals the complex ways our environment (place) influences culture (what people do), and in turn, what people do (e.g. drive car) shapes our environment (e.g. roads are built, CO2 emissions are generated, etc.). As people and places become ever more interconnected, there is an imperative to understand how your everyday life affects—and is affected by—activities elsewhere.

In exploring why place matters, we will develop the capacity think geographically: to investigate the relations between people and place, from local to global scales. Taking note (observation and experience) and taking notes (documentation, mental mapping, re-photography, ethnography, etc.) are key research methods that will guide our place-based (spatial) investigation of human activity. You will leave this course with the ability to think as a global, earth citizen! (3.0 credits)

Social & Behavioral Science; Multicultural; Global Literacy

CRN 41995 HONR 16210.1
F 9:30 – 12:15 pm Whitney 201

Jennifer Kitson, kitson@rowan.edu
Department of Geography, Planning & Sustainability

Back to top
Honors Data Structures & Algorithms

This course will explore the implementation and use of a diversity of Abstract Data Types using several data structures as well as the problems of sorting, searching and hashing. The students will be introduced to classical techniques to tackle these problems and will be engaged in the search for outside-the-box approaches. Emphasis in this course will be placed on algorithm efficiency as well as good programming style in addition to correctness. The labs will allow students to design, implement and test the solutions to these problems. Algorithm analysis tools will be used to compare the designed solutions. Advanced problems will be explored. (4.0 credits)

CRN 42489 CS 04222.1
TR 11:00 – 12:15 pm Robinson 323
W 12:30 – 3:15 pm Robinson 312

Gabriela Hristescu, hristescu@rowan.edu
Department of Computer Science

Back to top
Honors Discrete Structures

Discrete structures refers to topics that lie at the intersection between mathematics and computer science where the objects of study are discrete (such as integers, sets, Boolean functions, and trees) and questions that arise involve numeric versus symbolic computation, explicit versus recursive formulas, proof versus verification, and efficiency of algorithms in terms of computational complexity (aka big O notation).
More specifically, students will learn topics that are essential in computer science: number bases, sets, relations, Boolean algebra, congruence, recursion, algorithms, combinatorics (art of counting), and their applications to probability and graph theory. But most importantly, students will learn how think both rigorously and algorithmically. (3 credits)

Science and Mathematics

CRN 42680 MATH 03160.4
TR 12:30 – 1:45 pm Science 254

Hieu Nguyen, nguyen@rowan.edu
Department of Mathematics

Back to top
Honors Earth, People, & Environment

We live in a world that is wonderfully complex, populated by and, to an increasing degree, dominated by a species that has acquired not only an understanding of the forces that shape our planet but the ability to alter them. The story of how this came to be is rich in plot and characters, but it is an evolving story, with many chapters yet to be written. How have humans come to play such a central role in this unfolding drama – a story that is not just terrestrial, but universal? And, perhaps more importantly, how will the decisions we make today and in the years to come determine the future of our unique blue world?

This course looks not only to the past but to the present and future in an effort to reveal the underlying processes, key connections, and breakthrough findings that are part and parcel of our broadening global perspective. What sets this course apart from other interdisciplinary offerings is the realization of and emphasis on geography as the connective tissue that binds studies from various fields such as environmental science, history and evolutionary studies.

Geography sets our place in space and time; it provides the perspective that allows us to see all of these areas of study as synthetic components of a single story. This is a story that needs to be told. It is a course that will enable students to grasp the key events that shaped the evolution of our society, species, planet, and universe. It will provide an opportunity for exploration – for seeking out new knowledge as it emerges today across the sciences – and will spark an interest and a desire to play a role in writing the next chapter of this evolving story. (3.0 credits)

Social and Behavioral Sciences; Multicultural; Global Literacy

CRN 42004 GEOG 16100.9
TR 12:30 – 1:45 pm Whitney 201

Richard Federman, federmanr@rowan.edu
Department of Geography & Environment

Back to top
Honors Exploring Social Issues thru Theatre

Exploring Social Issues through Theatre and Dance will take students into the world of contemporary performance presented by some of the most exciting artists working in theater and dance today. This course examines social issues inspired by plays and dances chosen from the current Philadelphia Theater and Rowan University Department of Theatre and Dance seasons. Students will gain an appreciation of live performance and how play and dance productions reflect and deepen their understandings of social issues. Students will context and analyze the live performances with readings, research assignments, and dynamic interactive discussions with the instructor and invited guests.

The classes will meet on campus twice a week, except during travel weeks. There will be trips off campus during the semester to various Philadelphia theater locations. Most travel will occur on Thursdays. All theater tickets will be provided. Students are responsible for their own transportation to each show. The transportation costs (mileage, tolls, parking) will be reimbursed. **Attendance at shows is required.**

The current Rowan Department of Theatre and Dance production season focuses on two themes: women/gender and repurposing/recycling. These two themes will guide the curation of a complete line-up of performances to be determined later in the fall. Please contact the professor with questions. (3.0 credits)

Artistic Literacy

Artistic & Creative Experience
CRN 41735 HONR 05214.1

Social and Behavioral Sciences
CRN 41736 HONR 05290.3

TR 6:30 – 7:45 Wilson 205

Leslie Elkins, elkins@rowan.edu
Department of Theatre & Dance

Back to top
Honors Topics in Literature: Science and Literature: Modern Times

Science deals in facts, literature in fictions — why study the two together? Can the tools of literary analysis aid scientific understanding? Can techniques of scientific inquiry apply to a novel or a poem? This is a class that takes up the challenge of bringing the fields of science and literature together.

We will focus on the turn of the twentieth century, a time of accelerating scientific and technological change that bears comparison to our own high speed, high tech era. This period saw major developments in both scientific and literary views of time itself — Charlie Chaplin encapsulated the era with the title of his 1936 hit comedy, Modern Times. By reading scientific texts as well as major works of fiction, poetry, and film, we will ask: how do literary works from the early twentieth century absorb, understand, and contest new scientific understandings of time? Beginning with H.G. Wells’ The Time Machine (1895) — the first novel of time travel along the fourth dimension — we will cover Greenwich Mean Time, space time, psychic time, time management, time and empire, and cinematic time. Students will learn to test their reading against contemporary work at the intersection of science and literature.

Writing assignments have been designed with both STEM and humanities majors in mind and will teach students how to build an argument using literary observation and evidence as well as historical and scientific context. Throughout, we will be concerned with the complicated temporality of modern life as well as the intersection of science and literature. (3.0 credits)

History, Humanities, & Language; Literature; Humanistic Literacy

CRN 42720 ENGL 02123.15
MW 2:00 – 3:15 Whitney 201

CRN 42723 ENGL 02123.16
TR 3:30 – 4:45 pm Whitney 201

Emily Hyde, hyde@rowan.edu
Department of English

Updated 3/4/2019
Honors Freshman Engineering Clinic I

Freshman Clinic-R.S. introduces students to the practice and profession of engineering. You will learn fundamental concepts that are drawn from the four engineering disciplines offered here at Rowan University. Typical objectives include: engineering measurements; team work and cooperative learning; problem solving and critical thinking; technical communication skills in graphical, written, and oral formats; design methods; professionalism; lab skills and etiquette; research skills; and classroom management skills. All of these are fundamental skills that you will use in your later engineering courses and career. (2.0 credits)

CRN 41220 ENGR 01101.3
MW 8:00 – 9:15 am REXT 240
W 9:30 – 10:45 am REXT 240

CRN 41224 ENGR 01101.11
MW 11:00 – 12:15 pm REXT 240
M 9:30 – 10:45 am REXT 240

CRN 41226 ENGR 01101.17
MW 6:30 – 7:45 pm REXT 240
W 5:00 – 6:15 pm REXT 240
Honors Human Exceptionality

In this advanced level course the student will examine what is meant by human developmental exceptionality, theories of developmental differences, cultural perspectives of differences, and how we judge what is “normal”. The student will examine the various types of developmental disabilities linked with physical/health issues, emotional/behavioral issues, learning and communication issues, as well as levels of intellectual learning and related developmental disabilities. Another area of developmental difference to be examined is that of giftedness and giftedness with disabilities. Current research in the study of childhood developmental exceptionalities will be investigated. Well identified differences will be covered in this course, including Asperger’s syndrome, autism, emotional trauma, extremely slow learners, and those identified as exceptionally bright. Students will learn about the various laws that enable provision of services for people with disabilities. Students will hopefully come away with a stronger respect for the variety of human learning experiences, with a clearer understanding of how to interact successfully with a wide spectrum of exceptional learners. (3.0 credits)

Social & Behavioral Sciences; Humanistic Literacy

CRN 42204 SPED 08130.16
T 11:00 – 1:45 pm James 3099

Nicole Edwards, edwardsn@rowan.edu
Department of Interdisciplinary and Inclusive Education

Back to top
Honors Introduction to Astronomy

What is Astronomy? Welcome to the universe! This course will feature class lectures/labs, group projects, audiovisual presentations, activities online and off, visits to Rowan’s observatory and planetarium, and several writing projects. Some of the Labs will involve writing up narratives of assigned observing sessions, others writing up the results of individual research performed by each student online during one or more class periods. (4.0 credits)

(Will Require Occasional Night Viewing)

Lab Science; Science and Mathematics; Scientific Literacy

CRN 42747 ASTR 11120.1  
TR 2:00 – 4:45pm Science 149

John Herrmann, herrmann@rowan.edu  
Department of Physics & Astronomy

Back to top
Honors Introduction to Cell Biology (formerly Biology 3)

Cell biology is near to my heart: I was trained in cell biology as a graduate student, and I still use cell biology in my own research today. Together, we will address the fundamental molecular and behavioral properties of cells and cellular physiology from a physical and experimental perspective with a focus on experimental design, classic investigative approaches and data interpretation.

Students will learn complex material through lecture, student-centered learning, group discussions and Process-Oriented Guided Inquiry Learning (POGIL). More importantly, students will be required to use critical thinking skills, quantitative skills, reading skills and communication skills to discuss, explain and apply this material. To accomplish this, students will be trained to explore and describe conceptual models of their understanding, test predictions from these models, and learn the discipline-specific conventions of writing and presenting their conceptual understanding.

In the laboratory portion of the course, student groups propose, design and execute hypothesis-driven experiments of their own on a given cell biology topic. (4.0 credits)

Lab Science

CRN 42192 BIOL 01203.7
TR 2:00 – 4:45 pm Science 206

Gregory Eaton, eatong@rowan.edu
Department of Biological Sciences
Honors Introduction to Electricity & Magnetism

Did you ever wonder how a TV screen works or how to tune a guitar or how to generate electricity? Physics can answer these questions. Yes, it has practical applications. This class will focus on waves, electricity and magnetism. The course uses an integrated lecture/lab experience that includes lots of hands-on learning with interactive demonstrations and discovery through experimentation. Students will work on individual projects related to the application of physics. The primary objective of this course is to understand and appreciate electromagnetism while developing effective problem-solving skills. (4.0 credits)

Lab Science; Science and Mathematics

CRN 42677 PHYS 00222.99

MW 12:30 – 1:45 pm Science 144
R 12:30 – 3:15 pm Science 144

Samuel Lofland, lofland@rowan.edu
Department of Physics & Astronomy
DISCIPLINARY

Honors Introduction to Mapping and Geographical Information Systems

This course provides the student with the conceptual tools required for intelligent and critical use interpretation and analysis of maps. In addition, the course furnishes the student with an introduction to and overview of the mapping sciences. Students learn the concepts, methods, and techniques common to the several branches of the mapping sciences and are introduced to cartography, satellite remote sensing, computer-assisted cartography, and geographical information systems. Because of its increasing importance, special emphasis is placed on geographical information systems. (3.0 credits)

Social & Behavioral Sciences; Artistic Literacy

CRN 41878 GEOG 16160.3
TR 12:30 – 1:45 pm, Robinson 311

Zachary Christman, christmanz@rowan.edu
Department of Geography & Environment

Back to top
Honors Introduction to Object Oriented Programming-RS

This course introduces the fundamental concepts of programming from an object-oriented perspective. Students will learn about fundamentals like classes and objects, encapsulation, data types, calling methods and passing parameters, conditionals, loops, arrays and collections, inheritance and polymorphic variables and methods, as well as testing, debugging, and good design practices.

The course will take a top-down approach to investigating the material, while at the same time looking under the hood to understand the intricacies of object-oriented programming and the importance of efficiency in designing solutions. (4.0 credits)

CRN 42538 CS 04113.1
TR 9:30 – 12:15 pm Robinson 325

Shen Shyang Ho, hos@rowan.edu
Department of Computer Science

Back to top
Honors Introduction to Philosophy

Philosophy is concerned with the “great questions” of life – for example, do we know anything? Does God exist? Is morality relative? What makes an action morally right or wrong? Do we ever do anything freely? Do you have a soul? If you are interested in these sorts of questions, then Introduction to Philosophy is the class for you. You will study how thinkers from ancient times to the present have answered the great questions of life. You will also form your own answers to these questions. (3.0 credits)

History, Humanities & Language; Multicultural; Humanistic Literacy

CRN 42675 PHIL 09120.1
MW 11:00 – 12:15 pm Whitney 201

Abraham Witonsky, witonsky@rowan.edu
Department of Philosophy & Religion

Back to top
Honors Introduction to Programming Using Robots

This course is, essentially, an introductory programming course with a twist – students need to think about the programming in the context of robotics. For example, in a traditional programming course, students might learn how to make decisions by figuring out whether a given year was a leap year or not; in this course, students will learn how to make decisions by determining whether the robot will run into an obstacle. This is an introductory level course. No prior programming experience is expected or required. This course is NOT recommended for students with significant programming experience. It is, however, particularly recommended for those who are thinking about working with K-12 students after graduation.

Think robots sound really cool, but that you could never actually do this? You can! Dr. Kay has taught robot programming to a lot of people who started out extremely nervous and were both amazed (and pleased!) to succeed.

Students will be loaned a LEGO robot for the duration of the course. The course will begin with the LEGO graphical language (think dragging blocks around a screen) and then move on to more traditional text-based languages. Learning programming with a physical object has big advantages – it’s immediately obvious when something is not working right. Robot programming does add additional twists – most traditional programs will result in the same behavior every time they run – robots behavior may vary based on a variety of factors such as battery levels, the amount of light in the room, etc.

The honors section of this course will ask students to consider more deeply the impact that robotics can have on the world, and to design a simple prototype to address a need that they identify as relevant to their local community, region, or globally. (3.0 credits)

This course also works to help you fulfill the requirements for a:

- BA in Computing & Informatics
- CUGS in Fundamental Computing

Science and Mathematics

42630 CS 04110.1
TR 11:00 – 12:15 Robinson 312

Jennifer Kay, kay@rowan.edu
Department of Computer Science
DISCIPLINARY

Honors Introduction to Programming – JAVA

Coming soon. (3.0 credits)

Science and Mathematics

CRN 42670 CS 01104.15
TR 5:00 – 6:15 pm Robinson 312

Andrea Lobo, lobo@rowan.edu
Department of Computer Science

Back to Top
Honors Leadership and Service Training aka LAST 4 BLAST

Leadership and Service Training (LAST) provides an academic framework for upperclassman mentors involved in the Bantivoglio Leadership and Service Training (BLAST) program. There are several primary objectives for this course:

1) to train leaders who will facilitate the transition of students new to Honors;

2) to promote the continued development of both new and current Honors students as citizen scholars as well as contributing members and leaders of their communities;

3) to facilitate the participation of new Honors students in meaningful service projects;

4) to build a cohesive culture of intellectual curiosity and active engagement in academic and extracurricular pursuits that serves as the defining focus of the Bantivoglio Honors Concentration; and

5) to have BLAST mentors’ training and good work recognized by other academic institutions as well as potential employers (a LAST class will be visible to all*).

This course meets once a week to discuss a series of concepts related to building the Honors community, succeeding as scholars, pursuing positions of leadership, and making an impact as citizens. The weekly seminar consists of an introduction to a concept, group activities/projects, expert presentations, and planning sessions for BLAST mentors. Concepts to be addressed include but are not limited to: habits of mind, issues in diversity, disability awareness and access, career preparation, and mental health. The student leaders taking this course will be given ideas and guidance for leading groups, facilitating discussion, and arranging extracurricular events—including field trips—with the student groups they will lead. What is more, LAST will challenge student leaders to reflect on their own growth and development as more mature citizen scholars.

Following each class, mentors will be responsible for meeting with their group of underclassman Honors students to expand on the weekly concept through academic, co- and extracurricular activities, and discussion. BLAST mentors signed up for this course will receive one Honors course credit and the full semester’s credit for Honors Participation and Service for attending one meeting session each week, and successfully executing weekly meetings and activities with their student groups.

* This is a zero-credit, P/NC course that will show on students’ transcripts. Students will earn all of their Honors Service and Participation credit as well as an Honors Course Credit for being
BLAST mentors. (Please note that although students can be a BLAST mentor for up to six semesters, and those LAST classes will show on their transcripts, they may only use TWO towards their required total Honors courses for graduation.)

BLAST members will be registered for one of these sections by the Honors Office after the application process is complete.

CRN 42682 HONR 01101.1  
M 9:30 – 10:45 am, Whitney 201

CRN 42683 HONR 01101.2  
T 5:00 – 6:15, Whitney 201

Marie Flocco, flocco@rowan.edu  
Department of Writing Arts

Back to top
DISCIPLINARY

Honors Molecular Genetics

In a time when the average person can have their genome sequenced for less than a $1000 in a matter of days, when you can test your ancestry for less than $100 by putting some spit in the mail, and when Cancer treatments are personalized to your genetic makeup, an understanding of how the field of Genetics has been revolutionized by Molecular Biology will be one of the most useful life lessons you will pursue. Molecular Genetics will focus on only the most relevant and cutting edge Molecular Biology used in the fields of gene editing, genetic testing, forensic DNA testing, genetically-modified organisms, and personalized medicine. These topics will be covered in lecture and with primary literature and in the laboratory with application of student-driven multi-week projects. (4.0 credits)

Lab Science

CRN 42681 MCB 22450.1
MW 2:00 – 4:45 pm, Science 204

Ben Carone, carone@rowan.edu
Department of Molecular & Cellular Biosciences

Back to top
Honors Operations Management

This course provides a general management perspective of the role of operations in companies in both manufacturing and service industries. It offers a broad survey of the concepts and techniques involved in designing and managing operations. Students explore the role of operations in building the competitive strength of the firm and in fulfilling the firm’s goal of creating value and delivering customer satisfaction. Focus is on the leading decisions Operations Managers must make within the wider corporate and industry context, from initial product and process design to inventory and quality management, maintenance and development over time. Excel is used extensively to develop quantitative OM analyses.

This course is designed to provide a survey of the field of operations, focusing more on the operations side of management while also presenting the mathematical component. The course is designed to illustrate the 10 key decisions facing operations managers consisting of four modules. Module 1 covers broad introduction to OM, strategy, quality, and statistical quality control. Module 2 focuses forecasting, inventory management, and material requirement planning. Module 3 presents decision-making tools, linear programming, and project management. Module 4 deals with SAP ERP material management. The importance of operations in a firm’s quest to create competitive advantage in the global marketplace is shown. The teaching approach encourages students to develop logical, well-supported recommendations. Teams will be employed in case and term project in order to simulate working situations. (4.0 credits)

CRN 43445 MGT 06305.8
MW 12:30 – 1:45 pm Business 221

James Roh, roh@rowan.edu
Department of Management & Entrepreneurship

Back to top
Honors Organic Chemistry I

This course studies the chemistry of carbon compounds and their properties, structures and reactions. It emphasizes the study of the principle classes of aliphatic and aromatic compounds, which in conjunction with selected experiments, gives an understanding of the mechanisms of organic reactions. (4.0 credits)

CRN 42744 CHEM 07200.8
TR 11:00-12:15 pm Science 324
W 11:00-1:45 pm Science 336

Subash Jonnalagadda, jonalagadda@rowan.edu
Department of Chemistry & Biochemistry

Back to top
Honors Philosophy of Science-WI

Science is perhaps the preeminent cultural practice of our modern age. It has transformed our societies, our understanding of the world we live in, and even our own self-conceptions. Despite its evident importance, questions persist about the basic nature of science. What, for example, distinguishes it from other modes of inquiry and knowledge acquisition? What is its method, and what sort of logical inferences does it rely on? Does science always make progress, and how should we understand this progress? To what extent is science free of gender and other social biases? Do scientific theories accurately represent the real world, and how do we know this? Philosophers of science have defended a variety of answers to these questions. We will examine some of the more important and interesting of these philosophical theories, in the hope of gaining a richer understanding of the nature and value of science. (3.0 credits)

History, Humanities, & Language; Multicultural; Writing Intensive; Humanistic Literacy

CRN 42676 PHIL 09369.1
TR 9:30 – 10:45 pm James 2105

Matthew Lund, lund@rowan.edu
Department of Philosophy & Religion

Back to top
INTERDISCIPLINARY

Honors Public Speaking

This course trains students in the fundamentals of public speaking, including study and practice of speech preparation and speech delivery. The goal is to enable the student to participate effectively in oral communication, as a student, professionally and as a citizen. (3.0 credits)

CRN 42727 CMS 04205.4
MW 11:00 – 12:15 pm Whitney 202

CRN 42730 CMS 04205.11
MW 2:00 – 3:15 Victoria 204

CRN 42729 CMS 04205.52
W 5:00 – 7:45 pm Whitney 202

Back to top
Honors Rhetoric of Photography

This course explores the history of photography, from its origins in the 19th century through the late 20th century, with a particular focus on the photographic image as a form of visual rhetoric. Photography is a visual and artistic language that both reflects and shapes its cultural context. Students will investigate and analyze the ways in which photographs are conceived, manipulated, interpreted, and reinterpreted. The challenges of photography as a "truthful" medium will also be addressed. The class will take a day-long field trip to view actual photographs on display at the National Gallery of Art in Washington, DC. (3.0 credits)

Artistic & Creative Experience, Artistic Literacy

CRN 42735 CMS 04375.4
TR 5:00 – 6:15 pm Whitney 202

Andrew Hottle, hottle@rowan.edu
Department of Communication Studies

Back to Top
Honors Shakespeare I

Honors Shakespeare I, a.k.a. “Press ‘Play’: Shakespeare’s Awesome Mix, Vol. 1” is an intensive introduction to the major dramatic works of playwright William Shakespeare, taught through the lens of contemporary and 21st century adaptation and performance theory. In this discussion-driven course, students will read and analyze Shakespeare’s greatest plays, including Hamlet, Othello, and Macbeth, through a variety of literary, cultural, historical and theoretical perspectives, with a special emphasis on how Shakespeare’s works have been adapted and appropriated for the 21st century. By studying the texts alongside a variety of adaptations, including eyewitness accounts of original early modern productions, live performance, film, music, television, blogs, and digital media, students will gain a comprehensive knowledge of Shakespeare’s greatest works, and explore the connection between text, performance, and reinterpretation in contemporary cultural contexts. This course will investigate how the continual re-interpretation of these works in our and other cultures complicates and deepens the meanings of the original texts, while also exploring the enduring importance and relevance of Shakespeare’s dramatic works.

This course will require students to attend weekly film screenings, as well as live Shakespeare performances in Philadelphia. Students will also be required to produce their own adaptation of a scene from Shakespeare as a capstone project for the course. (3.0 credits)

Literature

CRN 42725 ENGL 02345.5
TR 11:00 – 12:15 pm, Whitney 201

Claire Falck, falck@rowan.edu
Department of English

Back to Top
Honors Sophomore Engineering Clinic I

This course, a continuation of the Engineering Clinic series, provides expanded treatment of the practice of engineering through applications drawn from various engineering disciplines and industry. Project work includes a variety of technical communication topics, analytic and computer-based tools, including the design process, engineering ethics, safety and teamwork. The composition component presents critical thinking, reading, writing, research and argumentation. (4.0 credits)

Communicative Literacy

CRN 41123 ENGR 01201.7
TR 8:00 – 9:15 am Savitz 321
W 12:30 – 3:15 pm REXT 241

CRN 41128 ENGR 01201.12
TR 8:00 – 9:15 pm Enterprise 414
W 5:00 – 7:45 pm REXT 141

CRN 41131 ENGR 01201.16
MW 9:30 – 10:45 am Victoria 200
F 11:00 – 1:45 pm REXT 140

Back to Top
INTERDISCIPLINARY

Honors Songs of Praise/Songs of Protest

This class will examine the ways in which music has served as an instrument for social change. African-American music in the forms of Spirituals and Blackface Minstrelsy will provide a mechanism for exploring social change, tensions between races, confused dynamics of racial identity, and stereotypes. Hymns of the late 18th and early 19th century will demonstrate how women used song as a means of self-expression denied them in other spheres. Finally, the civil rights and protest songs of the 60s and 70s will provide a backdrop for exploring issues of race and social culture. (3.0 credits)

Multicultural; Artistic Literacy

History, Humanities, & Language
CRN 40086 HONR 05205.2

Artistic & Creative Experience
CRN 42703 HONR 05214.2

Social & Behavioral Sciences
CRN 42706 HONR 05290.2

TR 3:30 – 4:45pm Wilson 213

Lourin Plant, plant@rowan.edu
Department of Music

Back to top
Honors Statistics I

This course provides a modern approach to introductory statistics for Honors students majoring in business, economics, political science, environmental science, psychology, and other non-math disciplines. Heavy emphasis will be placed on using simulations and modeling to develop understanding of key statistical concepts. Students will learn to analyze data with modern bootstrapping and randomization methods in addition to learning the traditional methods covered by the other sections of Statistics I. The instructor will devote considerable class time to small group investigations and discussion, as opposed to the relying exclusively on lectures. Course topics will include descriptive statistics, basic probability, confidence intervals, hypothesis testing, and linear correlation & regression. (3.0 credits)

Science and Mathematics; Quantitative Literacy

CRN 42674 STAT 02260.1
TR 8:00 – 9:15 am James 2102

Christopher Lacke, lacke@rowan.edu
Department of Mathematics
Honors Topics in Global History: African Medicine

The recent Ebola epidemics in Africa have captured American attention, causing many to think (and worry) about issues of health, disease, and medicine on the continent and their implications for the rest of the world. This course will tackle these issues head-on, attempting to bring historical perspective and understanding to these current events. We will begin and end our semester with Ebola, and in between, we will explore the history of disease, health, and healing in Africa beginning in the mid-nineteenth century. We will consider African understandings of these concepts, and we will learn about the variety of interventions made by biomedicine (i.e. medicine grounded in biological/scientific research). Our study of African medical history will help us address several bigger questions: What is health? What is medicine? To what extent are these concepts universal, and to what extent are they culturally defined?

The course is structured around several case studies or themes: Ebola, African ideas about health, trypanosomiasis (African sleeping sickness), sex and childbirth, mental health, HIV/AIDS, and the interactions between African and “Western” medicine. While this approach is clearly not comprehensive, it will allow you to understand some of the more significant issues surrounding health and healing in Africa. As we explore these topics, you will doubtless notice the important role played in this history by colonial or foreign doctors. Yet throughout the semester, our primary focus will be on African experiences and ideas. This course offers you the opportunity to learn about this history by reading and discussing a variety of texts, watching a few films, analyzing and writing individually, and completing a group project. It will encourage you to think about Africa—and about medicine—in new ways.

This course will fulfill the History, Humanities & Language Rowan Course Requirement, but Honors will need to contact your advisor directly. (3.0 credits)

CRN 44387 HIST 05443.1
W 2:00 – 4:45 pm Wilson 212

Kelly Duke Bryant, duke-bryant@rowan.edu
Department of History

Back to top
Honors Women and Gender in Perspective

Welcome to the exciting, interdisciplinary world of women's and gender studies! In this class we will investigate, document, and analyze the diverse realities of women's and men's lives in regard to gender. We will take an interdisciplinary approach, drawing on sociology, literature, history, psychology, and cultural studies to explore the many ways in which society constructs and organizes gender. We will cover a range of ideas and topics that reflect the broad scope of the field, paying special attention to sources of difference such as race, ethnicity, class, sexuality, and geography in addition to gender. Class sessions will revolve around discussion and deep group analysis based on the application of theoretical perspectives to a variety of readings. Students will have the opportunity to conduct research throughout the semester on an area of women's and gender studies of their choice. This class is also the core course required for a Women's and Gender Studies concentration. (3.0 credits)

Social & Behavioral Sciences; Global Literacy

42678 INTR 01130.1
TR 9:30 – 10:45 am Robinson 204

Melissa Klapper, klapper@rowan.edu
Department of History

Back to top