



Bantivoglio Honors Concentration Fall 2018 Course Descriptions

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Bantivoglio Honors Concentration Fall 2018 Course Descriptions

INTERDISCIPLINARY

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

CRN 42820 ART 09253.2

TR 11:00 – 1:45 pm Westby 216

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

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Bantivoglio Honors Concentration Fall 2018 Course Descriptions

DISCIPLINARY

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 ∞ 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 42792 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

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Bantivoglio Honors Concentration Fall 2018 Course Descriptions

DISCIPLINARY

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 41090 CHEM 06100.27

M 8:00 – 10:45 am Science 314A

WF 8:00 – 9:15 am Science 314

**Andrea Dichmann-Schmidt, dichmann-schmidt@rowan.edu
Department of Chemistry & Biochemistry**

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Bantivoglio Honors Concentration Fall 2018 Course Descriptions

INTERDISCIPLINARY

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 43091 HONR 05205.1

Social & Behavioral Sciences; Literature
CRN 43092 HONR 05290.1

TR 9:30 – 10:45 am Whitney 201

Katharine Slater, slaterk@rowan.edu
Department of English

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Bantivoglio Honors Concentration Fall 2018 Course Descriptions

INTERDISCIPLINARY

Honors College Composition I: Utopia/Dystopia

In the course of acquiring the rhetorical skills needed for success in college and in life, students in CCI Honors Concentration (Utopia/Dystopia) will focus on questions raised in literature, particularly Thomas More's *Utopia* and Aldous Huxley's *Brave New World*. What is the role of community in an individual's life? How do science, technology, and the various political "-isms" play a role in the lives of individuals, culture, and communities? Students will both read extensively and work on individual and group projects involving classics of utopian/dystopian literature. (3.0 credits)

Communicative Literacy

CRN 42794 HONR 01111.1

MW 12:30 – 1:45 pm Whitney 201

Tiffany DeRewal, derewal@rowan.edu

Department of Writing Arts

CRN 45645 HONR 01111.3

MW 9:30 – 10:45 am Whitney Seminar Room

Jennifer Tole, tole@rowan.edu

Department of Writing Arts

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Bantivoglio Honors Concentration Fall 2018 Course Descriptions

INTERDISCIPLINARY

Honors College Composition I: Global Warming

Whether we call it “global warming,” “climate change,” or even “the Anthropocene,” it’s clear that humans are making a massive impact on our environment. In this course, we will read, talk, think and write about one of the most significant issues facing our communities and our world. How do we write about something so large? Why do people disagree about the severity and significance of global warming? What’s the best way to communicate scientific findings so that everyone can understand? What can college students actually say and do to make a difference? We’ll address all of these questions and more, and you’ll emerge from the course with a better understanding of how climate change affects our world, our university, and our lives—and with the writing skills you need to succeed in college and beyond. (3.0 credits)

Communicative Literacy

CRN 42795 HONR 01111.2

TR 11:00 – 12:15 pm Whitney 201

**Nicole Cesare, cesare@rowan.edu
Department of Writing Arts**

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Bantivoglio Honors Concentration Fall 2018 Course Descriptions

INTERDISCIPLINARY

Honors College Composition II: Media Literacy

This Honors CCI course pairs instruction on developing facility in the discipline of argument and persuasion and developing college-level research skills with issues derived from studying contemporary media. Although they are consumers of media, Americans all-too-often fail to realize the manipulative practices of the media through ignorance of the principles and practices that drive the media in our world. With the advent of new interactive media, the landscape is even more treacherous and mysterious. Through a combination of discussions of readings, group projects, and presentations from experts, this course seeks to help students become informed masters of the media. (3.0 credits)

Communicative Literacy

CRN 42796 HONR 01112.1

TR 9:30 – 10:45 am Victoria 200

Marie Flocco, flocco@rowan.edu

Department of Writing Arts

CRN 42797 HONR 01112.2

MW 2:00 – 3:15 pm Whitney 202

Tiffany DeRewal, derewal@rowan.edu

Department of Writing Arts

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Bantivoglio Honors Concentration Fall 2018 Course Descriptions

DISCIPLINARY

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 44172 HONR 16210.1

F 9:30 – 12:15 pm Whitney 201

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

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Bantivoglio Honors Concentration Fall 2018 Course Descriptions

DISCIPLINARY

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 43970 MATH 03160.4

TR 12:30 – 1:45 pm James 2100

**Hieu Nguyen, nguyen@rowan.edu
Department of Mathematics**

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Bantivoglio Honors Concentration Fall 2018 Course Descriptions

INTERDISCIPLINARY

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 42803 ENGL 02123.4

TR 2:00 – 3:15 Whitney 201

CRN 42805 ENGL 02123.5

TR 3:30 – 4:45 pm Whitney 201

Emily Hyde, hyde@rowan.edu

Department of English

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Bantivoglio Honors Concentration Fall 2018 Course Descriptions

DISCIPLINARY

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 41784 ENGR 01101.3

M 8:00 – 9:15 am REXT 240

W 8:00 – 10:45 am REXT 240

CRN 41794 ENGR 01101.11

M 9:30 – 12:15 pm REXT 240

W 11:00 – 12:15 pm REXT 240

CRN 41799 ENGR 01101.17

M 6:30 – 7:45 pm REXT 241

W 5:00 – 7:45 pm REXT 241

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Bantivoglio Honors Concentration Fall 2018 Course Descriptions

INTERDISCIPLINARY

Honors History of Photography

This course will present the 175+ year history of photography in a comprehensive and detailed manner. Students will gain an overview of the history of photography from its inception to present day. Emphasis will be placed on significant movements, concepts and individuals relevant to the evolution of photography. Field trips to galleries and museums where photography can be viewed will be an integral part of the course.

Class sessions will consist of digital presentations of images and concepts from the history of photography and will be supported by small group presentations as well as the required texts. Collaborative work will be a major component of this course. Students will examine specific aspects of the history of photography each session and will be expected to lead discussions in these areas. Classes will be augmented by the exploration of noteworthy events and through references to influential periods from the more expansive continuum of art history. In addition, field trips to galleries and museums where photography can be viewed will be an integral part of the course. (3.0 credits)

Multicultural; Artistic Literacy

History, Humanities, & Language
CRN 43093 HONR 05205.2

Artistic & Creative Experience
CRN 43094 HONR 05214.1

MW 5:00 – 6:15 pm Whitney 202

Erika Tsuchiya, tsuchiya@rowan.edu
Department of Radio/TV/Film

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Bantivoglio Honors Concentration Fall 2018 Course Descriptions

INTERDISCIPLINARY

Honors Human Exceptionality

In this advanced level course the student will examine what is meant by human developmental exceptionalities, 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 40709 SPED 08130.15

R 12:30 – 3:15 pm Robinson 302

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

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Bantivoglio Honors Concentration Fall 2018 Course Descriptions

DISCIPLINARY

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 42818 ASTR 11120.3

TR 2:00 – 4:45pm Science 149

John Herrmann, herrmann@rowan.edu

Department of Physics & Astronomy

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Bantivoglio Honors Concentration Fall 2018 Course Descriptions

DISCIPLINARY

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 40695 BIOL 01203.7

TR 2:00 – 4:45 pm Science 204

**Gregory Eaton, eatong@rowan.edu
Department of Biological Sciences**

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Bantivoglio Honors Concentration Fall 2018 Course Descriptions

DISCIPLINARY

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 42787 PHYS 00222.2

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**

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Bantivoglio Honors Concentration Fall 2018 Course Descriptions

DISCIPLINARY

Honors Introduction to Global Literatures in English

“This Is Africa”: Making and Breaking Stereotypes in US Pop Culture and African Literature

A few years ago, when Taylor Swift made her “Wildest Dreams” video, it may have seemed a natural choice to set it in Africa. But people quickly pointed out a problem—there were no African people anywhere to be seen. With the backdrop of Africa as the “wildest” place in the world, it was only animals, landscapes, and Taylor. It’s just one example that begs the question: Why do we think of Africa the way we do? Why do we see it as a place of wildness and animals? Or of war, poverty, and disease? How does our pop culture shape our understanding of and attitudes toward the continent, and how does it compare with how African writers themselves see their homelands?

This course pairs a wide range of African literature (from precolonial oral stories to contemporary science fiction) with Western movies about Africa (including *Amistad*, *Blood Diamond*, *District 9*, and *The Last King of Scotland*) to think critically about our stereotypes and assumptions, and the relationship between the US and Africa. We will also engage with competing representations of Africa outside the classroom through participation in Africana Studies events, and by exploring Africa on the Internet (through blogs, news sites, YouTube, etc.). The course aims to challenge some of our assumptions about the continent and expose us to new cultures and perspectives. But the end goal isn’t to decide what’s “true” or “false” about Africa, or which representations are accurate or misleading. Instead, we will work to ask how cultural productions like movies and novels themselves shape our understanding of the world, and how *all* such representations are caught up in certain interests and biases. (3.0 credits)

History, Humanities, & Language; Literature; Multicultural; Global Literacy;

45328 ENGL 02116.9

TR 12:30 - 1:45 Westby 109

Dustin Crowley, crowleyd@rowan.edu

Department of English

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Bantivoglio Honors Concentration Fall 2018 Course Descriptions

DISCIPLINARY

Introduction to Object Oriented Programming

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 40082 CS 04113.4

M 9:30 – 12:15 pm Robinson 312

TR 9:30 – 10:45 pm Robinson 312

Gabriela Hristescu, hristescu@rowan.edu

Department of Computer Science

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Bantivoglio Honors Concentration Fall 2018 Course Descriptions

INTERDISCIPLINARY

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; Global Literacy; Humanistic Literacy

CRN 42791 PHIL 09120.1

MW 9:30 – 10:45 am Whitney 201

CRN 42788 PHIL 09120.2

MW 11:00 – 12:15 pm Whitney 201

**Nathan Bauer, bauer@rowan.edu
Department of Philosophy & Religion**

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Bantivoglio Honors Concentration Fall 2018 Course Descriptions

INTERDISCIPLINARY

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



Bantivoglio Honors Concentration Fall 2018 Course Descriptions

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 44817 HONR 01101.1 M 5:00 – 6:15 pm Enterprise 509

CRN 44820 HONR 01101.2 T 12:30 – 1:45 pm Whitney 201

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

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Bantivoglio Honors Concentration Fall 2018 Course Descriptions

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 40839 MCB 22450.1

TR 2:00 – 4:45 pm

Ben Carone, carone@rowan.edu

Department of Molecular & Cellular Biosciences

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Bantivoglio Honors Concentration Fall 2018 Course Descriptions

DISCIPLINARY

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 41060 CHEM 07200.4

TF 9:30 – 10:45 am Science 324

R 9:30 – 12:15 pm Science 332

Lark Perez, perezla@rowan.edu

Suman Pathi, pathi@rowan.edu

Department of Chemistry & Biochemistry

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Bantivoglio Honors Concentration Fall 2018 Course Descriptions

INTERDISCIPLINARY

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 42789 PHIL 09369.1

TR 9:30 – 10:45pm Whitney 202

CRN 42790 PHIL 09369.2

TR 11:00 – 12:15 pm Whitney 202

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

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Bantivoglio Honors Concentration Fall 2018 Course Descriptions

INTERDISCIPLINARY

Honors Songs of Praise/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 43095 HONR 05205.3

Artistic & Creative Experience
CRN 43096 HONR 05214.2

Social & Behavioral Sciences
CRN 43097 HONR 05290.2

TR 3:30 – 4:45pm Wilson 213

Lourin Plant, plant@rowan.edu
Department of Music

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Bantivoglio Honors Concentration Fall 2018 Course Descriptions

DISCIPLINARY

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)

Quantitative Literacy; Science and Mathematics

CRN 42786 STAT 02260.1

TR 8:00 – 9:15 am James 2102

Christopher Lacke, lacke@rowan.edu
Department of Mathematics

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Bantivoglio Honors Concentration Fall 2018 Course Descriptions

INTERDISCIPLINARY

Honors Surgical Illustration and Media

This studio course is an introduction surgical observation and the illustration of surgical procedures and its fundamental application within the discipline of health science, biology, pre-medical preparation and the major of biomedical art and visualization. It is based on the belief that understanding the concepts of medical surgery are essential to creating effective visual communications and illustrations within an interdisciplinary learning environment. Students will research surgical procedures and techniques, photograph and sketch procedures in the operating room, prepare comprehensive sketches outlining visual narratives of surgical procedures, and render final illustrations/media presentations using a variety of digital media. Students will learn how to draw and apply specific art visualization techniques to depict their research and operating room experiences. (3.0 credits)

Due to the hospital environment and interaction with patients in the operating room, it is required for all students to have the following vaccinations: Hepatitis C, Tuberculosis, and the Flu vaccination. Additionally, if Cooper and/or Inspira Hospital requires health documentation and/or certificates of good health, you must present these upon request to attend the operating room sessions. If you are feeling sick for the hospital observation, you will be required to stay home and not attend the surgical operating room experience. All directives from hospital doctors, residents, nurses and staff must be followed during the course observations.

This course will fulfill the Artistic and Creative Experience Rowan Course Requirement, but Honors will need to contact your advisor directly.

Enrollment in this class will be done by the Honors Office. Please email honors@rowan.edu if you are a junior or senior science major or minor who meets the vaccination requirements or agrees to obtain the required vaccinations by the start of the fall semester and would like to be enrolled in this course.

Artistic and Creative Experience

CRN 44795 ART 09454.2

TR 8:00 – 10:45 am Westby 216

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

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Bantivoglio Honors Concentration Fall 2018 Course Descriptions

DISCIPLINARY

Honors US History Since 1865

This course will span the period from the moments before European contact in the New World to the end of the Civil War. We will examine America's place in the Atlantic world and the global economy, as colonists used their trading and consuming strength to cement their political identity. We will examine the central contradiction of a new nation built on the twin foundations of slavery and freedom. As Jefferson and Hamilton debated whether the nation should be centered on agriculture or industry, we will trace the expansion of both, as cotton agriculture transformed the South into a true slave republic, and industrialization created a North of factories, cities, and wage-working women and men. Finally, we will explore how the longstanding contradiction of slavery finally exploded in war. (3.0 credits)

History, Humanities, & Language; Humanistic Literacy

CRN 42798 HIST 05151.3

TR 9:30 – 10:45 am Wilson 212

**Katherine Turner, turnerk@rowan.edu
Department of History**

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Bantivoglio Honors Concentration Fall 2018 Course Descriptions

INTERDISCIPLINARY

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

42793 INTR 01130.1

R 2:00 – 4:45 pm Whitney 202

**Janet Lindman, lindman@rowan.edu
Department of History**

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