



Bantivoglio Honors Concentration Fall 2020 Course Descriptions

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Bantivoglio Honors Concentration Fall 2020 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 42234 MATH 01130.10

TRF 11:00 – 12:15 pm Robinson 324

Ming-Sun Li, sun@rowan.edu

Department of Mathematics

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Bantivoglio Honors Concentration Fall 2020 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

You must register for both sections.

CRN 41853 CHEM 06100.23

TR 8:00 – 9:15 am Science 322

CRN 41861 CHEM L6100.23

M 8:00 – 10:45 am Science 341

Neil Mucha, mucha@rowan.edu

Department of Chemistry & Biochemistry

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Bantivoglio Honors Concentration Fall 2020 Course Descriptions

INTERDISCIPLINARY

Honors College Composition I - RS: Techno-utopianism and its Discontents

The impact of technology in our lives and communities is always growing and changing, in ways that we recognize and in ways that we don't. Living in the information age, we constantly hear about technologies—and tech companies—that are predicted to change the world for the better. Where do these visions come from? Should we believe them? In this Honors CCI course, we will be focusing on contemporary visions of techno-utopianism, which, broadly defined, is the belief that advanced science and technology can solve the world's problems and create an ideal society. Studying contemporary texts that envision techno-utopian—and techno-dystopian—futures, we will interrogate the Silicon Valley rhetoric of technological advancement, considering how such ideologies compel us to question and reaffirm our own beliefs about society, community, and what it means to be human. (3.0 credits)

Communication; Communicative Literacy

CRN 41775 HONR 01111.1
MW 9:30 – 10:45 pm Whitney 202

Tiffany DeRewal, dereval@rowan.edu
Department of Writing Arts

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Bantivoglio Honors Concentration Fall 2020 Course Descriptions

INTERDISCIPLINARY

Honors College Composition I - RS: Adversity and Resilience

History has shown us that success is often harnessed from failure. Winston Churchill, Steve Jobs, C. S. Lewis, and J.K. Rowling have all discussed the vital influence that failure has had on their successes and the importance of resilience in the face of adversity. Despite being common, failure can be challenging to handle, particularly for young adults. Elite universities such as Princeton, Stanford, and UPENN, have recently created Student Resiliency Centers to support undergraduate students who have limited ability to cope with adversity and failure. This course will explore the research on powerful concepts such as resilience, adversity, success, and grit. In a seminar style class, we will use research to explore the question: Why do some people thrive in the face of adversity when others fail? (3.0 credits)

Communication; Communicative Literacy

CRN 41777 HONR 01111.2

MW 12:30 – 1:45 pm Whitney 202

Marie Flocco, flocco@rowan.edu

Department of Writing Arts

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Bantivoglio Honors Concentration Fall 2020 Course Descriptions

INTERDISCIPLINARY

Honors College Composition I - RS: Coming soon.

(3.0 credits)

Communication; Communicative Literacy

CRN 41778 HONR 01111.3

TR 3:30 – 4:45 pm Whitney 202

**Catherine Romano, romanoc@rowan.edu
Department of Writing Arts**

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Bantivoglio Honors Concentration Fall 2020 Course Descriptions

INTERDISCIPLINARY

Honors College Composition II - RS: Disability and the Media

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. Most Americans are constantly engaging with media—whether it be social media, news media, pop culture, or the latest binge series on streaming—in their daily lives. However, it remains common to assume a stance of passive consumption, receiving media messages without much consideration of how and why such media are assembled, and the kinds of values and beliefs that they reflect. In the last decade, our relationship to social media, mass media, and popular culture has become more fraught than ever, as the internet enables the rapid mobilization of hoaxes and deliberate misinformation campaigns, and viral content comes and goes faster than the daily news cycle. In this class, we will focus on developing the skills to become careful and discerning consumers of media. We will take a deep dive into the politics of media representation, carefully examining how the media portrays particular populations, communities, experiences, and ideas, and considering how such representations both shape and are shaped by American ideologies. Through seminar-style discussions, shared readings, and independent research projects, we will explore our own relationships to media and enter the conversations about media that are being conducted by critics, viewers, and scholars. (3.0 credits)

Communication; Communicative Literacy

CRN 41781 HONR 01112.1
MW 2:00 – 3:15 pm Whitney 201

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

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Bantivoglio Honors Concentration Fall 2020 Course Descriptions

INTERDISCIPLINARY

Honors College Composition II - RS: 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 and its representations of disability. Most Americans are constantly engaging with media—whether it be social media, news media, pop culture, or the latest binge series on streaming—in their daily lives. However, it remains common to assume a stance of passive consumption, receiving media messages without much consideration of how and why such media are assembled, and the kinds of values and beliefs that they reflect. In the last decade, our relationship to social media, mass media, and popular culture has become more fraught than ever, as the internet enables the rapid mobilization of hoaxes and deliberate misinformation campaigns, and viral content comes and goes faster than the daily news cycle. In this class, we will focus on developing the skills to become careful and discerning consumers of media. We will take a deep dive into the politics of media representation, carefully examining how the media portrays people with disabilities, and considering how such representations both shape and are shaped by ideologies of disability. Through seminar-style discussions, shared readings, and independent research projects, we will explore our own relationships to media and enter the conversations about media that are being conducted by critics, viewers, and scholars. (3.0 credits)

Communication; Communicative Literacy

CRN 41784 HONR 01112.2

TR 9:30 – 10:45 pm Whitney 201

Tiffany DeRewal, derewal@rowan.edu

Department of Writing Arts

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Bantivoglio Honors Concentration Fall 2020 Course Descriptions

DISCIPLINARY

Honors Contemporary World Theatre - WI

Contemporary World Theatre is a discussion-based, writing and reading intensive course that examines a wide range of scripts and performances by contemporary writers, actors, directors, and designers who influence theatre practice around the globe. (3.0 credits)

Literature; Writing Intensive; Global Literacy

**History/Humanities/Language
CRN 44958 HONR 05205.4**

**Artistic & Creative Experience
CRN 44959 HONR 05214.3**

MW 11:00 – 12:15 pm Whitney 201

**Elisabeth Hostetter, hostetter@rowan.edu
Department of Theatre & Dance**

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Bantivoglio Honors Concentration Fall 2020 Course Descriptions

DISCIPLINARY

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 41833 CS 04222.1

TR 9:30 – 12:15 pm Online

Seth Bergmann, bergmann@rowan.edu

Department of Computer Science

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Bantivoglio Honors Concentration Fall 2020 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 42255 MATH 03160.4

TR 12:30 – 1:45 pm Science 324

Hieu Nguyen, nguyen@rowan.edu

Department of Mathematics

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Bantivoglio Honors Concentration Fall 2020 Course Descriptions

INTERDISCIPLINARY

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 41800 GEOG 16100.10

TR 12:30 – 1:45 pm Whitney 201

Richard Federman, federmanr@rowan.edu

Department of Geography & Environment

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Bantivoglio Honors Concentration Fall 2020 Course Descriptions

DISCIPLINARY

Honors Essentials of Psychology

Every wonder why you do what you do? Or think what you think? Or feel what you feel? This course provides an overview of the field of psychology - the scientific study of our thoughts, feelings, and behavior. Based on psychological science we'll investigate the questions below:

- How do we study our thoughts, feelings, and behavior?
- How does memory work and are we any good at remembering things?
- What's the best way to study?
- What is stress and how do we cope with it?
- How does stress make us sick?
- Who's happy and how can we be happier?
- How do we learn our thoughts, feelings, and behavior? And how can we change them?
- When are our thoughts, feelings, behaviors considered pathological and how do we effectively treat them?
- How much do other people influence our thoughts, feelings, and behavior?
- Is perception really reality? Or is our experience of our environment different for everyone?
- What exactly is sleep and how can we get the best sleep?
- How do drugs affect our thoughts, feelings, and behavior?
- How do kids and adults differ physically, cognitively, socially, and morally?

(3.0 credits)

Social and Behavioral Sciences; Humanistic Literacy

CRN 41762 PSY 01107.23

MW 8:00 – 9:15 am Online

Eve Sledjeski, sledjeski@rowan.edu

Department of Psychology

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Bantivoglio Honors Concentration Fall 2020 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 41820 ENGL 02123.5

TR 2:00 – 3:15 pm Remote

CRN 41821 ENGL 02123.6

TR 3:30 – 4:45 pm Remote

Emily Hyde, hyde@rowan.edu

Department of English

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Bantivoglio Honors Concentration Fall 2020 Course Descriptions

DISCIPLINARY

Honors Freshman Engineering Clinic I - RS

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 40146 ENGR 01101.3

M 8:00 – 9:15 am REXT 240

W 8:00 – 10:45 am REXT 240

Melissa Montalbo-Lomboy, montalbolomboy@rowan.edu

CRN 41760 ENGR 01101.17

M 6:30 – 7:45 pm REXT 241

W 5:00 – 7:45 pm REXT 241

Tiago Forin, forin@rowan.edu

Department of Experiential Engineering Education

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Bantivoglio Honors Concentration Fall 2020 Course Descriptions

INTERDISCIPLINARY

Honors Interpersonal Communication

Coming soon.

(3.0 credits)

All sections are online.

Attributes: Social and Behavioral Sciences; Communicative Literacy

CRN 46226 CMS 04220.9

Karen Brager, brager@rowan.edu

CRN 46225 CMS 04220.14

Patricia Coughlan, coughlan@rowan.edu

CRN 46224 CMS 04220.26

Karen Brager, brager@rowan.edu

CRN 46223 CMS 04220.28

Patricia Coughlan, coughlan@rowan.edu

Department of Communication Studies

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Bantivoglio Honors Concentration Fall 2020 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 41875 ASTR 11120.1

TR 2:00 – 4:45pm Science 149

John Herrmann, herrmann@rowan.edu

Department of Physics & Astronomy

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Bantivoglio Honors Concentration Fall 2020 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 41872 BIOL 01203.7

TR 2:00 – 4:45 pm Science 206

Gregory Eaton, eatong@rowan.edu

Department of Biological Sciences

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Bantivoglio Honors Concentration Fall 2020 Course Descriptions

INTERDISCIPLINARY

Honors 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 41890 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 2020 Course Descriptions

DISCIPLINARY

Honors Introduction to Economics – A Microeconomic Perspective

This course analyzes resource allocation among alternative uses. It studies consumer demand, product and factor price determination, general equilibrium and optimal income distribution. (3 credits)

Social and Behavioral Sciences; Humanistic Literacy

CRN 43809 ECON 04102.16

TR 3:30 – 4:45 pm Remote

Jesse Melvin, melvinj@rowan.edu

Department of Political Science & Economics

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Bantivoglio Honors Concentration Fall 2020 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

You must register for both sections:

CRN 41939 PHYS 00222.2

MW 12:30 – 3:15 pm Science 150

CRN 41940 PHYS L0222 2 Lab

R 12:30 – 3:15 pm Science 150

Samuel Lofland, lofland@rowan.edu

Department of Physics & Astronomy

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Bantivoglio Honors Concentration Fall 2020 Course Descriptions

DISCIPLINARY

Honors Introduction to Ethics

This historically structured course emphasizes both the nature of moral problems and the variety and adequacy of selected moral theories. The course involves reflection and analysis of classic and contemporary theories and thinkers. (3 credits)

History, Humanities, & Language; Literature; Humanistic Literacy

CRN 43025 PHIL 08150.1

TR 9:30 – 10:45 am Online

Ellen Miller, millere@rowan.edu
Department of Philosophy & Religion

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Bantivoglio Honors Concentration Fall 2020 Course Descriptions

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 41806 GEOG 16160.3

TR 11:00 – 12:15 pm Robinson 311

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

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Bantivoglio Honors Concentration Fall 2020 Course Descriptions

DISCIPLINARY

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 41827 CS 04113.7

MW 5:00 – 6:15 pm Online

F 11:00 – 1:45 pm Online

Sun Bo, sunb@rowan.edu

Department of Computer Science

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Bantivoglio Honors Concentration Fall 2020 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.



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* 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 41764 HONR 01101.1
M 9:30 – 10:45 am, Whitney 201**

**CRN 41765 HONR 01101.2
T 5:00 – 6:15, Whitney 201**

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

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Bantivoglio Honors Concentration Fall 2020 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 42738 MCB 22450.1

M 2:00 – 4:45 pm Science 204

TR 2:00 – 3:15 pm Science 126

Ben Carone, carone@rowan.edu

Department of Molecular & Cellular Biosciences

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Bantivoglio Honors Concentration Fall 2020 Course Descriptions

DISCIPLINARY

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 42767 MGT 06305.8

MW 12:30 – 1:45 pm Business 221

James Roh, roh@rowan.edu

Department of Management & Entrepreneurship

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Bantivoglio Honors Concentration Fall 2020 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)

You must register for both CRNs:

CRN 41864 CHEM 07200.5

TR 11:00-12:15 pm Science 324

Gustavo Moura, moura-letts@rowan.edu

Department of Chemistry & Biochemistry

CRN 41867 CHEM L7200.5 Lab

F 11:00-1:45 pm Science 334

Rashanique Quarels, quarels@rowan.edu

Department of Chemistry & Biochemistry

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Bantivoglio Honors Concentration Fall 2020 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 41763 PHIL 09369.3

TR 9:30 – 10:45 pm Online

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

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Bantivoglio Honors Concentration Fall 2020 Course Descriptions

INTERDISCIPLINARY

Honors Principles of Finance

This course provides an overview of basic principles involved in the process of making financial decisions. This course includes the following topics: financial statement analysis; time value of money, stock valuation, bond valuation, capital budgeting, capital structure, dividend policy and working capital management. There will be a team project on Stock Valuation and fundamental analysis. Students will complete a series of analysis and reports that use Excel extensively. (3.0 credits)

CRN 43576 FIN 04300.12

WF 11:00 – 12:15 pm Business 101

Jia Wang, wangji@rowan.edu

Department of Accounting and Finance

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Bantivoglio Honors Concentration Fall 2020 Course Descriptions

DISCIPLINARY

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 40168 ENGR 01201.1

MW 9:30 – 10:45 am Wilson 203

F 11:00 – 1:45 pm ENGR 141

Ted Howell, howelle@rowan.edu

Mary Barillas, barillas@rowan.edu

CRN 40172 ENGR 01201.2

TR 8:00 – 9:15 pm Whitney 201

W 12:30 – 3:15 pm ENGR 240

Juliana Rausch, rausch@rowan.edu

Kaitlin Mallouk, mallouk@rowan.edu

CRN 40174 ENGR 01201.3

TR 8:00 – 9:15 pm Wilson 105

W 5:00 – 7:45 pm ENGR 140

Steve Royek, royek@rowan.edu

Scott Streiner, streiner@rowan.edu

CRN 40165 ENGR 01201.6

MW 11:00 – 12:15 pm Wilson 203

M 2:00 – 4:45 pm ENGR 141

Ted Howell, howelle@rowan.edu

Scott Streiner, streiner@rowan.edu

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Bantivoglio Honors Concentration Fall 2020 Course Descriptions

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 41790 HONR 05205.2

Artistic & Creative Experience
CRN 41791 HONR 05214.1

Social & Behavioral Sciences
CRN 41793 HONR 05290.2

TR 3:30 – 4:45 pm Wilson 213

Lourin Plant, plant@rowan.edu
Department of Music

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Bantivoglio Honors Concentration Fall 2020 Course Descriptions

INTERDISCIPLINARY

Honors Special Topics in Global Literatures in English: *Are We Not Human?: African Science Fiction*

As our lives, minds, and bodies become ever more thoroughly integrated with technology, some have argued we are already cyborgs—beings with both organic and biomechanical parts. Cyborgs in literature and film often pose the question: what does it mean to be human? Is manipulating bodies with biotechnology a menace that threatens to erase our humanity, or salvation that can save us from our bodily limitations? What if our integration with technology has already changed our selves, our societies, our very evolution?

Such issues take on special resonance for African peoples, who have long histories of being used as and experimented on with technology, and who have often been categorized as not fully human through slavery, colonialism, and racism. At the same time, Africa is often assumed to be underdeveloped, lacking the kinds of knowledge and technology needed to be an active part of cyborg futures. This course explores the various ways African authors have used science fiction to explore and expand those stories of victimization and exclusion, of being enslaved by the machines or left behind by the technologically empowered. We'll examine how their narratives of African cyborgs imagine alternative relationships to technology, each other, and futures, and challenge us to ask what it means to be human at all in our increasingly cyborg world.

Readings could include:

Tade Thompson, *The Wormwood Trilogy*

Nnedi Okorafor, *The Binti Trilogy*

Tochi Onyebuchi, *War Girls*

Short stories from *AfroSF*

**History/Humanities/Language; Literature; Multicultural; Global Literacy
CRN 46103 HONR 05205.3**

**Dustin Crowley, crowleyd@rowan.edu
Department of English**

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Bantivoglio Honors Concentration Fall 2020 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)

Science and Mathematics; Quantitative Literacy

CRN 42243 STAT 02260.2

TR 8:00 – 9:15 am Science 338

Chris Lacke, lacke@rowan.edu

Department of Mathematics

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Bantivoglio Honors Concentration Fall 2020 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 Literacy

CRN 44470 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 2020 Course Descriptions

INTERDISCIPLINARY

Honors US History to 1865

This course surveys the history of the United States to 1865. We will begin with the colonization of the Americas, the resulting conflicts with Native Americans, and the growth of slavery. After dwelling upon the American Revolution and the creation of the Constitution, we will focus upon the process of westward expansion, the development of industrial capitalism, and the rising sectional differences between North and South that led to the Civil War. One important theme in the course will be how best to understand historical change. We will consider both explanations rooted in more structural factors such as geography, economics, or cultural background and also perspectives that lean more on contingent factors such as the actions of individuals and moments of chance. (3.0 credits)

History, Humanities, Language; Humanistic

CRN 42760 HIST 05150.2

TR 11:00 – 12:15 pm James 3117

Bill Carrigan, carrigan@rowan.edu

Department of History

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