**Spring 2023 Neuroscience Course Directory**

**Boston University** College of Arts and Sciences
Undergraduate Program in Neuroscience

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**RESEARCH FOR CREDIT**

If you are working or intend to work in a lab during the Spring 2023 semester, you are welcome to apply for a Directed Study in order to receive academic credits towards graduation. Guidelines and the application can be found at [https://www.bu.edu/neuro/academics/undergraduate/research/](https://www.bu.edu/neuro/academics/undergraduate/research/).

**REGISTRATION DATES**

<table>
<thead>
<tr>
<th>Class Year</th>
<th>Start Date</th>
<th>Start Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seniors</td>
<td>October 30</td>
<td>9:00a</td>
</tr>
<tr>
<td>Juniors</td>
<td>October 30</td>
<td>12:00p</td>
</tr>
<tr>
<td>Sophomores</td>
<td>November 6</td>
<td>9:00a</td>
</tr>
<tr>
<td>Freshmen</td>
<td>November 13</td>
<td>9:00a</td>
</tr>
</tbody>
</table>

**WAITLISTS**

You can find more information about waitlists here: [https://docs.google.com/forms/d/e/1FAIpQLSfy_EeDNb3fiNd4H1NPetM8Mpxry0XU0T_jww3F2-SerwBx_g/viewform](https://docs.google.com/forms/d/e/1FAIpQLSfy_EeDNb3fiNd4H1NPetM8Mpxry0XU0T_jww3F2-SerwBx_g/viewform)

**REGISTRATION NOTES**

- You **must** schedule an advising appointment with your **assigned advisor** prior to registration at [bu.joinhandshake.com](http://bu.joinhandshake.com)
- Full time status is a minimum of **12 credits** per semester.
- To change your class standing, apply for an overload fee waiver, and more, visit the CAS Advising page: [http://www.bu.edu/cas/current-students/undergraduate/casadvising/forms/](http://www.bu.edu/cas/current-students/undergraduate/casadvising/forms/)
- PDP, ROTC, and CAS FY/SY courses **do not** count toward the 128 credits needed to graduate.
- Find more info about the Undergraduate Neuroscience Program at [bu.edu/neuro/undergraduate](http://bu.edu/neuro/undergraduate)
- Learn more about the BU Hub at [bu.edu/hub](http://bu.edu/hub)
- Declare a second major, change your major, or add a minor here:
  - Major: [https://www.bu.edu/cas/cas-advising-major-declaration-form/](https://www.bu.edu/cas/cas-advising-major-declaration-form/)
  - Minor: [https://www.bu.edu/cas/academics/undergraduate-education/academic-advising/advising/minor-declaration-form/](https://www.bu.edu/cas/academics/undergraduate-education/academic-advising/advising/minor-declaration-form/)
- Change your class standing here: [http://www.bu.edu/cas/current-students/undergraduate/casadvising/forms/cas-advising-change-of-class-year-form/](http://www.bu.edu/cas/current-students/undergraduate/casadvising/forms/cas-advising-change-of-class-year-form/)

Last Updated: 9/26/22
Check Student Link for most up to date scheduling information.
**NE 101: Introduction to Neuroscience**  
4 cr | Hub: SI1 | Div Studies: NS | Prereq: None

An introduction to the biological basis of behavior and cognition. Includes theoretical and practical foundations rooted in psychology, biology, neuropharmacology, and clinical sciences (e.g., neurology and neuropsychiatry). Neuroethical dilemmas are highlighted and integrated when relevant to discussion topics. Note: You cannot receive credit for NE 101 and PS 231.

**Lecture**  
A1 Stevens MWF 10:10a-11:00a

**Discussion**  
B1 Stevens W 9:05a-9:55a

**NE 102: Principles of Neuroscience**  
4 cr | Hub: SI2; ETR; TWC; WIN

A cellular and molecular approach to nervous system function. Includes molecular and genetic basis of neurons; structure and function of ion channels, synapses, and glia; mechanisms of signal transduction; neuroendocrinology; and sensory systems and transduction. Project labs focused on anatomy and physiology of neurons.

**Lecture**  
A1 Pastorino MWF 1:25p-2:15p

**Lab**  
B1 Dugan T 8:00a-11:45a  
B2 Tullai T 8:00a-11:45a  
B3 Gobrogge T 12:30p-4:15p  
B4 Tullai T 12:30p-4:15p  
B5 Gobrogge W 2:30p-6:15p  
B6 Tullai R 8:00a-11:45a  
B7 Dugan R 12:30p-4:15p  
B8 Tullai R 12:30p-4:15p

**NE 116: Introduction to Cell and Molecular Biology with Integrated Science Experience 1 Lab**  
4 cr | Hub: SI2; ETR; WIN

Integration of general chemistry with biology and neuroscience, with an emphasis on how each discipline interacts experimentally. Laboratory focuses on projects relating to enzymes and their function. 3 lecture hours (meets with CAS NE 102 lecture), 3 hours lab.

**Lecture**  
A1 Pastorino MWF 1:25p-2:15p

**Lab**  
L1 Bushell WF 8:00a-10:45a  
L2 Bushell WF 2:30p-5:15p

**NE 202: Intro. to Cognitive Neuroscience**  
4 cr | Prereq: CAS NE 101 or PS 231; sophomore standing

Cognitive neuroscience seeks to understand the brain basis of cognition. This course introduces research methods and human neuroanatomy, and provides a survey of topics including learning and memory, attention, perception, language, social cognition, and executive function. Also offered as CAS PS 339.

**Lecture**  
A1 Somers TR 2:00p-3:15p

**Discussion**  
A2 Somers W 9:05-9:55a  
A3 Somers W 10:10a-11:00a  
A4 Somers W 11:15a-12:05p  
A5 Somers W 12:20p-1:10p  
A6 Somers M 9:05a-9:55a  
A7 Somers M 10:10a-11:00a  
A8 Somers M 11:15a-12:05p  
A9 Somers M 12:20p-1:10p

Last Updated: 9/26/22  
Check Student Link for most up to date scheduling information.
# Core Neuroscience Courses

**NE 204: Intro. to Computational Models of Brain and Behavior**  
4 cr | Prereq: CAS MA 121 and MA 122; or CAS MA 123 and CAS MA 124; and sophomore standing; or consent of instructor

Introduction to important concepts in cognitive neuroscience and computational modeling of biological neural systems. Combines a systems-level overview of brain function with an introduction to modeling of brain and behavior using neural networking.

**NE 212: Intro to MATLAB Programming**  
4 cr | Hub: QR1, CRT | Prereq: (NE 101 or PS 101) & one semester of calculus

Teaches computer programming concepts, core statistical concepts, and related skills via MATLAB. Programming examples that cover four steps of neuroscience research (experiment control; random samples; data analysis; brain process simulation) promote "constructive" understanding of the quantitative reasoning behind decisions based on descriptive and inferential statistics (e.g., confidence intervals, linear regression models, model-specific anovas). Explains numerical integration programs in two settings: probability distributions, and simulations of neural dynamics.

**NE 370: Neuroscience Communications**  
2 cr | Hub: WIN | Prereq: WR 120 and NE 102/NE 203, or BI 325, or PS 231, or consent of instructor

Students explore diverse neuroscience career paths by practicing writing for different genres related to science journalism and business careers. Attention to stylistic revision and multimedia design and communication informed by the needs of the different audiences these careers reach.

**The NE 370 course is not a required core course, but is a new course starting in Spring 2023!!**

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### Boston University  
College of Arts and Sciences  
Undergraduate Program in Neuroscience

<table>
<thead>
<tr>
<th>Course</th>
<th>Lecture</th>
<th>Lab</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>NE 204</strong></td>
<td>Ocker</td>
<td>MWF 10:10a-11:00a</td>
</tr>
<tr>
<td><strong>NE 212</strong></td>
<td>Chandrasekar</td>
<td>TR 3:30p-4:45p</td>
</tr>
<tr>
<td><strong>NE 370</strong></td>
<td>Gobrogge</td>
<td>R 11:00a-12:15p</td>
</tr>
</tbody>
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Last Updated: 9/26/22  
Check Student Link for most up to date scheduling information.
Group 1: Neurobiology

NE 349: Neurotoxins in Biology, Medicine, Agriculture, and War
4 cr | Hub: QR1, CRT | Prereq: (NE 102 or BI 108) or equivalent

Neurotoxins used as a lens to study the consequences of venom on mammalian physiological systems; potential clinical applications of neurotoxins; neurotoxins at cellular and molecular levels; mechanisms and possible impacts of neurotoxic pesticides; and physiological effects of neurotoxic chemical weapons.

NE 520: Sensory Neurobiology
4 cr | Prereq: NE 203 or BI 325

A broad survey of sensory system function in model organisms and humans, focusing on fundamental principles of neural processing. Topics include basic cellular transduction, neural coding, and links between neural activity and sensory perception. Also offered as CAS BI 520.

NE 525: Biology of Neurodegenerative Diseases
4 cr | Hub: OSC, ETR, RIL | Prereq: (NE 102 or BI 203) & (NE 203 or BI 325)

An in-depth look at molecular mechanisms of neurodegenerative diseases and their impact and relevance in clinical diagnosis and treatment. Topics include the molecular pathways of Alzheimer's, Parkinson's, Huntington's, and Creutzfeldt-Jakob Disease, and Amyotrophic Lateral Sclerosis. Also offered as CAS BI 525.

Last Updated: 9/26/22
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**Bi 599: Physiology of the Synapse**

4 cr | Prereq: junior standing; Recommended BI 325 or BI 445 or BI 481

Neuron development and maturation, synapse formation, structure and molecular components of synapses, synaptic transmission, synaptic plasticity, neurotransmitter receptors, cellular basis for learning and memory, synaptic pathology in neurological diseases. Two hours lecture, two hours paper presentation and discussion.

**Lecture**
A1 Man W 10:10a-11:55a

**Discussion**
A1 Man F 10:10a-11:55a

Last Updated: 9/26/22
Check Student Link for most up to date scheduling information.
Group 2: Cognitive

**NE 234: Psychology of Learning**  
4 cr | Hub: SI1, SO1, CRT | Div Studies: SS | Prereq: PS 101  

The aim of this course is to review the major traditional and current theories of learning and memory. Students will begin with an understanding of simple learning, including theories and basic principles of classical and operant conditioning. Students will then be introduced to the memory system, the three stages of memory, implicit and explicit memory processes.

* Lecture  
  A1 Dunne MWF 2:30p-3:20p  

* Discussion  
  A2 Dunne W 8:00a-8:50a  
  A3 Dunne W 9:05a-9:55a  
  A4 Dunne W 10:10a-11:00a  
  A5 Dunne W 11:15a-12:05p

**NE 327: Experimental Psychology: Perception**  
4 cr | Prereq: PS 101 & (PS211 or NE 212 or (MA 115 & MA 116)) & PS 222 | Satisfies Neuro Research Requirement  

Introduces psychophysical methods and their use in the study of perceptual processes: Students learn to think critically about the relation between theory and experiment, conduct perception experiments, and write experimental reports. Also offered as CAS PS 327.

* Independent  
  A1 Ling TR 1:30p-3:15p

**NE 329: Experimental Psychology: Cognitive Neuroscience**  
4 cr | Hub: WIN, RIL, TWC | Prereq: (PS211, NE 212 or (MA 115 & MA 116)) & (PS 231 or NE 101); & (PS 339 or NE 202) & FYW | Satisfies Neuro Research Requirement  

Laboratory course in human cognitive neuroscience. Emphasis on large-scale neural mechanisms of visual cognition using electrophysiological measurements of brain activity. Students critically engage with theories in psychological science, conduct cognitive neuroscience experiments, and learn to write experimental reports.

* Independent  
  A1 Reinhart TR 3:30p-5:15p

Last Updated: 9/26/22  
Check Student Link for most up to date scheduling information.
**NE 333: Drugs & Behavior**  
4 cr  |  Prereq: PS 101 & (PS 231 or NE 101) & Junior/Senior Standing  

Comprehensive survey of drug influences on behavior; introduces a neuroscience approach to behavior. Several classes of drugs are discussed, including abused and addictive substances and psychoactive and therapeutic agents. Also offered as CAS PS 333.

**Lecture**  
A1  DiBenedictis  MWF  12:20p-1:10p  
**Discussion**  
A2  DiBenedictis  F  8:00a-8:50a  
A3  DiBenedictis  F  9:05a-9:55a  
A4  DiBenedictis  F  10:10a-11:00a  
A5  DiBenedictis  F  11:15am-12:05p

**NE 456: Neurobiology of Sex & Aggression**  
4 cr  |  Hub: OSC, HCO, SI2  |  Prereq: PS 231 or NE 203 or BI 325 or permission of instructor  

Examines neurobiological and genetic factors that influence sex and violence. Students review primary literature from the past century that highlights major scientific discoveries that have reconceptualized our understanding of the origins of sexual-determination, -attraction and -aggression.

**Independent**  
A1  Gobrogge  TR  5:00p-6:15p

**NE 532: Neurobiology of Motivation, Decision Making, and Learning**  
4 cr  |  Prereq: PS 231 or NE 101, and PS 211 or PS/NE 212; and one upper level NE course or BI 108 and BI 325; or consent of instructor  

Exploration of the molecular and neural circuit mechanisms responsible for driving movement, selecting actions, and evaluating outcomes to drive adaptive learning. Examination of how disorders of motivation and decision making arise from the disruption of different neural circuits. Also listed as PS 532.

**Independent**  
A1  Howe  T  3:30p-6:15p

Last Updated: 9/26/22  
Check Student Link for most up to date scheduling information.
Group 3: Computational

NE 449: Neuroscience Design Lab
4 cr | Hub: QR1, CRT | Prereq: (BI 315 or BI 325 or NE 203) or consent of instructor | Satisfies Neuro Research Requirement

Design and build devices for neuroscience experiments. Interface sensors with computers using Arduino microprocessors. Guided exercises followed by independent design projects to quantify human sensory and motor performance, or emulate animal sensory-motor circuits. All levels of programming experience accepted.

NE 530: Neural Models of Memory Function
4 cr | Prereq: a course in Neuroscience or physiological psychology, or consent of instructor

Computational models of neurobiological mechanisms for memory function and spatial navigation, with a particular emphasis on cellular and circuit models of the hippocampus and related cortical structures. Also offered as CAS PS 530.

CS 542: Machine Learning
4 cr | Prereq: CS 365 | Satisfies Neuro Research Requirement

Introduction to modern machine learning concepts, techniques, and algorithms. Topics include regression, kernels, support vector machines, feature selection, boosting, clustering, hidden Markov models, and Bayesian networks. Programming assignments emphasize taking theory into practice, through applications on real-world data sets.

Lab
A1 Gavornik TR 12:30p-3:15p

Independent
A1 Hasselmo R 3:30p-6:15p

Lecture
A1 Staff MW 12:20p-1:35p

Lab
A2 Staff F 8:00a-8:50a
A3 Staff F 9:05a-9:55a
A4 Staff F 10:10a-11:00a
A5 Staff F 11:15a-12:05p
A6 Staff F 12:20p-1:10p

Last Updated: 9/26/22
Check Student Link for most up to date scheduling information.
**CS 565: Algorithmic Data Mining**

4 cr | Prereq: CS 112 & CS330 & CS 365 and familiarity with linear algebra, probability, and statistics | Satisfies Neuro Research Requirement

Introduction to data mining concepts and techniques. Topics include association and correlation discovery, classification and clustering of large datasets, outlier detection. Emphasis on the algorithmic aspects as well as the application of mining in real-world problems.

**Lecture**

A1  Terzi  TR  9:30a-10:45a

**Lab**

A2  Terzi  W  10:10a-11:00a
A3  Terzi  W  11:15a-12:05p
A4  Terzi  W  12:20p-1:10p

Last Updated: 9/26/22
Check Student Link for most up to date scheduling information.
**BI 203: Cell Biology**

4 cr | Hub: SI1, QR1, CRT | Prereq: (CASBI108 & CASCH102) or equivalent | Coreq: (CASCH203) or equivalent.

Principles of cellular organization and function: biological molecules, flow of genetic information, membranes and subcellular organelles, and cell regulation. Three hours lecture, one hour discussion. Students may receive credit for CAS BI 203 or 213, but not both courses. Effective Fall 2019, this course fulfills a single unit in each of the following BU Hub areas: Scientific Inquiry I, Quantitative Reasoning I, Critical Thinking.

**BI 315: Systems Physiology**

4 cr | Hub: SI2, WIN, CRT, TWC | Prereq: (CASBI108 OR ENGBE209), and CASCH101 and CASCH102, or equivalent. First Year Writing Seminar (e.g., WR 100 or WR 120)

An introduction to physiological principles applied across all levels of organization (cell, tissue, organ system). Preparation for more advanced courses in physiology. Topics include homeostasis and neural, muscle, respiratory, cardiovascular, renal, endocrine, gastrointestinal, and metabolic physiology. Three hours lecture, three hours lab. Effective Fall 2019, this course fulfills a single unit in each of the following BU Hub areas: Scientific Inquiry II, Writing-Intensive Course, Critical Thinking, Teamwork/Collaboration.
Restricted Electives

**CS 111: Introduction to Computer Science I**  
4 cr | Hub: QR2, CRI, CRT

The first course for computer science majors and anyone seeking a rigorous introduction. Develops computational problem-solving skills by programming in the Python language, and exposes students to a variety of other topics from computer science and its applications. Carries MCS divisional credit in CAS. Effective Fall 2018, this course fulfills a single unit in each of the following BU Hub areas: Quantitative Reasoning II, Creativity/Innovation, Critical Thinking.

**Lecture**
A1  Sullivan  MWF  10:10a-11:00a  
B1  Staff  MWF  11:15a-12:05p  
C1  Sullivan  MWF  12:20p-1:10p

**Lab**  
Please see Student Link for available lab times.
A2-A7  Sullivan  
B2-B7  Staff  
C2-C7  Sullivan

**CS 112: Introduction to Computer Science II**  
4 cr | Hub: QR2, CRI, CRT | Prereq: (CASCS111) or equivalent.

Covers advanced programming techniques and data structures. Topics include recursion, algorithm analysis, linked lists, stacks, queues, trees, graphs, tables, searching, and sorting. Carries MCS divisional credit in CAS. Effective Fall 2018, this course fulfills a single unit in the following BU Hub area: Quantitative Reasoning II, Creativity and Innovation, Critical Thinking.

**Lecture**
A1  Papadakis-Ka  TR  12:30p-1:45p  
B1  Sullivan  MWF  1:25p-2:15p  
C1  Papadakis-Ka  TR  2:00p-3:15p

**Lab**  
Please see Student Link for available lab times.
A2-A6  Papadakis-Ka  
B2-B6  Sullivan  
C2-C6  Papadakis-Ka

**MA 226: Differential Equations**  
4 cr | Hub: CRT | Prereq: (CASMA225 OR CASMA230)

First-order linear and separable equations. Second-order equations and first-order systems. Linear equations and linearization. Numerical and qualitative analysis. Laplace transforms. Applications and modeling of real phenomena throughout. (Cannot be taken for credit in addition to CAS MA 231.)

**Lecture**
A1  Moore  MWF  10:10a-11:00a  
B1  Lin  TR  9:30a-10:45a  
C1  Sheshmani  MWF  9:05a-9:55a

**Discussion**  
Please see Student Link for discussion times.
A2-A6  Moore  
B2-B6  Lin  
C2-C6  Sheshmani

Last Updated: 9/26/22  
Check Student Link for most up to date scheduling information.
MA 242: Linear Algebra  
4 cr | Hub: QR2, CRT | Prereq: (CASMA122 OR CASMA124 OR CASMA127 OR CASMA129)

Cannot be taken for credit in addition to CAS MA 442 or ENG EK 103. Matrix algebra, solution of linear systems, determinants, Gaussian elimination, fundamental theory, row-echelon form. Vector spaces, bases, norms. Computer methods. Eigenvalues and eigenvectors, canonical decomposition. Applications. Effective Fall 2019, this course fulfills a single unit in the following BU Hub area: Quantitative Reasoning II.

MA 416: Analysis of Variance  
4 cr | Hub: CRT | Prereq: (CASMA116 OR CASMA214) or equivalent.

Fundamental concepts and analytical skills in analysis of variance, including crossed and nested designs, as well as fixed- and random- effect models. Trend analysis for repeated measures, expected mean squares, and non-parametric techniques. SAS is used throughout the course.

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Lecture
A1  Panth  TR  9:30a-10:45a
B1  Fried  MWF  9:05a-9:55a
C1  Weinstein  TR  2:00p-3:15p

Discussion
Please see Student Link for discussion times.
A2-A5  Panth
B2  Fried
C2-C4  Weinstein

Lecture
A1  Moore  TR  5:00p-6:15p

Discussion
A2  Moore  W  1:25p-2:15p
A3  Moore  W  3:35p-4:25p
A4  Moore  R  12:30p-1:20p

Last Updated: 9/26/22  
Check Student Link for most up to date scheduling information.
Remaining on track to complete your Hub requirements requires thoughtful planning, including knowing what Hub units you will satisfy by courses needed for your major.

Students majoring in Neuroscience who complete the core neuroscience courses and foundational requirements in writing, chemistry, physics, calculus, and statistics generally have **11 Hub units** left to satisfy:

<table>
<thead>
<tr>
<th>Philosophical Inquiry and Life's Meaning (PLM)</th>
<th>1 unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aesthetic Exploration (AEX)</td>
<td>1 unit</td>
</tr>
<tr>
<td>Historical Consciousness (HCO)</td>
<td>1 unit</td>
</tr>
<tr>
<td>Social Inquiry (SO1)</td>
<td>1 unit</td>
</tr>
<tr>
<td>Individual in Community (IIC)</td>
<td>1 unit</td>
</tr>
<tr>
<td>Global Citizenship and Intercultural Literacy (GCI)</td>
<td>2 units</td>
</tr>
<tr>
<td>Creativity/Innovation (CRI)</td>
<td>2 units</td>
</tr>
<tr>
<td>Oral/Signed Communication (OSC)</td>
<td>1 unit</td>
</tr>
<tr>
<td>Digital Multimedia Expression (DME)</td>
<td>1 unit</td>
</tr>
</tbody>
</table>

You may satisfy some of the above units with your 5 neuroscience electives, writing courses, 2nd language requirement, and additional academic tracks (minors, pre-health, KHC, etc.), but you will likely need to search outside your normal scheduling path to satisfy at least some Hub units.

It is encouraged to spread your Hub courses throughout your time at Boston University, so that you are not scrambling to take all your Hub courses or find seats in courses that meet a specific permutation of 3 Hub units your final year.

You can also leverage the [Course Description Search](#) tool to identify other courses that meet specific Hub units.

We've included a list of courses on the next page running in Spring 2023 that are helpful in satisfying some of your Hub Units that are not met by Neuroscience. **This list is by no means exhaustive and you should continue to do your own research, including looking at classes outside of CAS.**
Select Hub Courses

Boston University College of Arts and Sciences
Undergraduate Program in Neuroscience

AA 296: Religion and Hip Hop
4 cr | Hub: DME, AEX, CRI
Uses digital media studies to explore diverse religious expressions in hip hop culture. Through critical reading, community field trips, and hands-on technology usage, students consider an often overlooked element in the study of hip hop culture: religion.

AH 395: History of Photography
4 cr | Hub: AEX, HCO, CRT
An introduction to the study of photographs. The history of the medium in Europe and America from its invention in 1839 to the present. After lectures on photographic theory and methodology, photographs are studied both as art objects and as historical artifacts.

AH 112: Introduction to Art History II: Renaissance to Today
4 cr | Hub: AEX, HCO | Div Studies: HU
Major monuments and artists. Sequential development, from the Renaissance to the modern period, of major styles in architecture, sculpture, painting, graphic arts, and photography. Relationship of visual art to social and cultural trends.

AR 100: Great Discoveries in Archaeology
4 cr | Hub: SO1, DME, HCO | Div Studies: HU
Illustrated lectures focus on the important discoveries of the discipline in archaeology. Course covers the whole of human prehistory around the world. Archaeological methods are described, along with the great ancient sites: Olduvai, Lascaux, Stonehenge, Egyptian pyramids, Machu Picchu.

AH 240: Medieval Art in Europe
4 cr | Hub: AEX, HCO
Focuses on architecture, manuscript illumination, metalwork and ivory carving, wall-painting, textiles and monumental architectural sculpture. Topics include iconoclasm, monasticism, women in medieval art, patronage, materials and techniques, iconography, representation and model books and regional and international styles and trends.

BI 210: Human Anatomy
4 cr | Hub: SI1, DME, CRI | Div Studies: NS
Intensive preprofessional course for students whose programs require anatomy. Not for biology major or minor credit. Gross structure of the human body; skeletal, muscular, nervous, respiratory, circulatory, digestive, urinary, and reproductive systems. Three hours lecture, two hours lab (lab requires dissection). Cannot be taken for credit in addition to the course with the same title formerly numbered CAS BI 106.

Last Updated: 9/26/22
Check Student Link for most up to date scheduling information.
Select Hub Courses

**CL 101: The World of Greece**  
4 cr  |  Hub: HCO, PLM, CRT  |  Div Studies: HU

The literature, philosophy, art, and culture of ancient Greece and their impact on the Western tradition. Topics covered include the emergence of epic poetry; art and lyric in the Archaic Age; drama, architecture, philosophy, and political developments of classical Athens and Greece.

**EN 142: Introduction to Poetry**  
4 cr  |  Hub: AEX, OSC  |  Div Studies: HU

Introduction to the understanding, interpretation, and appreciation of a wide range of poetry. Focus on poetic form, genre, and style, with explorations of cultural and aesthetic contexts. Particular emphasis on close, careful reading and discussion.

**EN 127: Reading American Literature**  
4 cr  |  Hub: AEX, IIC  |  Div Studies: HU

Readings may include works of fiction, poetry, or drama composed in America from the colonial period to the present. Attention to a wide range of literary works and historical and cultural contexts.

**EN 150: Children’s Literature: Fairy Tales, Fantasy, and Imaginary Spaces**  
4 cr  |  Hub: AEX, CRI  |  Div Studies: HU

What stories do we tell about children? What guidance do we imagine them needing? Examines fairy tales; the Golden Age of Children’s Literature (1860-1920); fantasy; genre and adaptation. Authors include Grimms, Bronte, Lewis Carroll, Tolkien, Le Guin, Pullman, Sendak.

**EN 129: Introduction to African American Literature**  
4 cr  |  Hub: WIN, GCI, CRT  |  Div Studies: HU

What is the African American literary tradition? How does it change over time? This course is to introduce you to the cultural, political, and historical contexts of the African American experience through readings of literature. We will read poetry, slave narratives, essays and speeches, tales, short stories, and novels, and as we examine these texts, we will consider how culture, politics, and history shape African American literature. Effective Fall 2022, this course fulfills a single unit in each of the following: Writing-Intensive, Global Citizenship and Intercultural Literacy, Critical Thinking.

**EN 170: The Graphic Novel**  
4 cr  |  Hub: AEX, DME, CRI  |  Div Studies: HU

Examination of the rise, nature, and status of the contemporary book-length graphic novel. Topics include graphic vs. traditional novel, word and image, style and space, representations of subjectivity, trauma, and history.

Last Updated: 9/26/22  
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Select Hub Courses

**HI 215: The European Enlightenment**  
4 cr | Hub: HCO, PLM  
How Europe became modern. The rise of science, critique of religion, and struggle for rights. The public sphere emerges: newspapers, Freemasons, coffee, salons, smut. The invention of a cosmopolitan republic of letters; Voltaire, Diderot, Kant, Adam Smith, Benjamin Franklin.

**RN 100: Introduction to Religion**  
4 cr | Hub: PLM, GCI, CRI  
Religion matters. It makes meaning and provides structure to life, addressing fundamental questions about body, spirit, community, and time. But what is it? How does it work in our world? This course explores religion in ritual, philosophical, experiential, and ethical dimensions.

**PH 110: Great Philosophers**  
4 cr | Hub: HCO, PLM, CRT | Div Studies: HU  
An introduction to philosophy through a reading of great figures in western thought. The list may include Plato, Aristotle, Descartes, Rousseau, Nietzsche, Russell.

**RN 104: Judaism, Christianity, and Islam**  
4 cr | Hub: AEX, GCI, CRI  
Islam, Christianity, and Judaism in historical and cultural context, origins to the present. Examines diversity of practices, belief systems, and social structures within these religions. Also addresses debates within and between communities as well as contemporary controversies and concerns.

**PH 159: Philosophy and Film**  
4 cr | Hub: AEX, PLM, CRT | Div Studies: HU  
This class provides an introduction to philosophical and aesthetic issues connected with film.

**RN 105: Introduction to the World's Religions**  
4 cr | Hub: DME, GCI, CRI  
Explores the symbols, beliefs, stories, and practices of the world's religions with attention to both ancient history and contemporary practices, including spiritual autobiographies and online communities. Possible traditions include: Hinduism, Buddhism, Judaism, Christianity, Islam, and African/African diaspora religions.

**SO 207: Sociology of Race and Ethnicity**  
4 cr | Hub: HCO, IIC, RIL | Div Studies: SS  
This course examines the fundamental theoretical and empirical approaches regarding race/ethnicity and the current state of race relations in the U.S. that explore both contemporary social problems.

**RN 106: Death and Immortality**  
4 cr | Hub: PLM, GCI, CRI  
Examines death as religious traditions have attempted to accept, defeat, deny, or transcend it. Do we have souls? Do they reincarnate? What to do with a corpse? Other topics include mourning, burial, cremation, martyrdom, resurrection, near-death experiences.

Last Updated: 9/26/22  
Check Student Link for most up to date scheduling information.