

Majors and Minors

Courses from over two dozen academic disciplines and departments make up the Arts and Sciences curriculum. The individual disciplines fall into four broad areas of academic inquiry: humanities, social sciences, natural sciences, and quantitative sciences. Within each of these areas are smaller spheres of interest as well. The information in this section describes the Hopkins curriculum. For each discipline we include general information about the discipline itself, what makes it distinctive at JHU, and what type of high school preparation would be recommended. We also include a limited number of possible careers to which areas of undergraduate study might lead, and we identify the appropriate and/or required courses to take in the first and second years at JHU.

Africana Studies

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Ancient Law (minor only)

Director of Undergraduate Studies

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Ancient Law is a pre-law program with a difference. It treats law not as a technical profession but as a liberal arts subject, one of the major achievements of human civilization. It considers fundamental questions of law like, What is a contract? or What is a crime? by seeing them through the eyes of societies with legal systems utterly different from our own. The minor is an interdepartmental program of the Classics and Near Eastern Studies departments, covering Assyrian, Babylonian, Biblical, Egyptian, Greek, Hittite, Roman, and Sumerian law, and more.

Career applications of the minor

The program is an important preliminary for anyone considering a career in law or just thinking of going to law school.

What are the basic first- and second-year courses?

The minor requires:

- Three survey courses in ancient law
- Two survey courses in ancient history/civilization
- One course in an aspect of modern law or legal theory (e.g., Constitutional Law, Law and Psychology, Philosophy of Law)
- Two semesters of an ancient language may substitute for some survey courses.

Anthropology

Director of Undergraduate Studies

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This discipline focuses on the comparative study of culture and society. Anthropologists explore the culture and social life of people all over the world to see what qualities human cultures share and to understand their differences.

The faculty in Anthropology is widely recognized for their work on social inequality, race, class, gender, ethnic relations, identity, migration, and public health. They share a common focus on the interaction of local communities with transnational processes, such as the spread of world religions, internationalization of business, and environmentalism. Students are encouraged to study abroad, do independent research, or develop interdisciplinary programs across the curriculum.

Careers available to anthropology majors

Most graduates pursue careers in international relations, public health, or graduate study. Some head toward medicine or law; others go into international business, education, or social service.

What are the basic first- and second-year courses?

- Take an introductory course at the 100- or 200-level.
- Begin study of a foreign language at the appropriate level.
- Choose related courses in Sociology, History, Africana Studies, and Latin American Studies.

Behavioral Biology

Director of Undergraduate Studies

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Why do we behave the way we do? Both biology and psychology play a role. In terms of biology, genes, hormones, and chemicals in the brain affect the way we feel and behave. Conversely, the way we behave also may influence our bodies. Behavioral biology explores the interface of biology and behavior. The David S. Olton Behavioral Biology Program utilizes the resources from different divisions by recruiting as instructors faculty from Homewood, the School of Medicine, and the School of Public Health.

Careers available to behavioral biology majors

This major is excellent preparation for pursuing postgraduate study in neuroscience or psychology, and for medical school. Some graduates combine these fields in M.D./Ph.D. programs. Others specialize in psychiatry, psychopharmacology, or even law as related to medicine.

What are the basic first- and second-year courses?

- In the first year, take an introductory psychology course like **Introduction to Physiological Psychology (200.141)** in the fall term, and **Introduction to Animal Behavior (200.146)** in the spring term.
- Begin taking the required science and math courses: **Introductory Chemistry I and II (030.101-102)**, **Introductory Chemistry Laboratory I and II (030.105-106)**, **General Biology I and II with laboratory (020.151-154)**, and **Calculus I and II (110.106-107)**.
- In the second year, take **Introductory Organic Chemistry I and II (030.205-206)** and **Introductory Organic Chemistry Laboratory (030.225)** along with additional natural science credits.

Bioethics (minor only)

Director of Undergraduate Studies

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The bioethics program is designed to provide students with an understanding of the fundamental moral and philosophical issues surrounding the fields of medicine and public health.

What are the basic first- and second-year courses?

- Students will need to complete the courses **Introduction to Moral Philosophy (150.220)** and **Bioethics (150.219)**.
- Plan to complete either **General Biology I and II** or **Biochemistry and Cell Biology**.

Biology

Undergraduate Advising Coordinator

Dr. Robert Horner

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Modern biology studies structures of living things, and how these structures bear on basic functions — growth, reproduction, reactions, motion, etc. Biochemistry focuses on the chemical structures and reactions that occur inside and outside the cell. Cell biology investigates how the structures within cells control and carry out cellular processes.

Biologists at JHU focus on biology at the molecular level, a field that requires a working knowledge of organic chemistry. Students are encouraged to participate in basic research in a faculty member's laboratory, and those who show special promise may elect the Biology Honors program.

The department also offers a bachelor of science degree in molecular and cellular biology, which provides rigorous preparation for advanced study in the biomedical sciences. This program will appeal to students planning to enter Ph.D. programs or obtain employment in the biotechnology industry. Premedical students who seek a strong undergraduate base for a career in medical research may also be interested in the program.

Careers available to biology majors

The undergraduate degree is good preparation for graduate study in the biological sciences, medicine, pharmaceuticals, biotechnology, and a wide array of other laboratory-based opportunities. Utilizing the analytic skills developed as a science major, other students pursue careers in a wide variety of areas, including business, law, or public service.

What are the basic first- and second-year courses?

In the first year students should take courses in biology, chemistry, and calculus.

Year One, Fall Term

General Biology I (020.151), 4cr
Introductory Chemistry I (030.101), 3cr
General Chemistry Lab I (030.105), 1cr
Calculus I (110.106), 4cr
Elective course

Year One, Spring Term

General Biology II (020.152), 4cr
Intro Chemistry II (030.102), 3cr
General Chemistry Lab II (030.106), 1cr
Calculus II (110.107), 4cr
Elective course

Biology majors with a score of 4 or 5 on the A.P. Biology examination are exempt from taking **General Biology I and II (020.151-152)**, but they may take the 1-credit **Biology Workshop I and II (020.161-162)** courses. In the first year, students may take a foreign language or electives of choice.

Second Year, Fall Term

Intro Organic Chemistry I (030.205), 4cr
Organic Chemistry Lab (030.225), 3cr
Biochemistry (020.305), 4cr
Biochemistry Lab (020.315), 2cr
Elective course

Second Year, Spring Term

Cell Biology (020.306), 4cr
Cell Biology Lab (020.316), 2cr
Intro Organic Chemistry II (030.206), 4cr
Elective courses

Continue to use electives to explore the curriculum.

Biophysics

Director of Undergraduate Studies

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Biophysics uses the concepts and instruments of the physical sciences to study biological systems and problems. Any biological problem that can be cast in physical terms is amenable for study in biophysics. For example, the structures of protein or DNA molecules that appear everywhere are produced by a biophysical technique called X-ray crystallography. The development of new pharmaceuticals by rational, structure-based methods, and the study of cell motility, force generation in

muscle, and the dynamics of biological molecules are all within the realm of biophysics.

Biophysics requires training in mathematics, physics, biology, and chemistry. The biophysics major therefore provides an excellent opportunity for a broad education in science. In addition, the major emphasizes research, requiring students to work in a laboratory for two semesters.

Careers available to biophysics majors

Most biophysics majors at Hopkins go on to attend medical school or enter M.D./Ph.D. programs. Many end up in academic research. The biophysics major is also excellent preparation for Ph.D. programs in biophysics and in many of the biological sciences, such as neuroscience or molecular biology. Biotechnology and pharmaceutical companies are eagerly seeking graduates with biophysical training to work in the development of new pharmaceuticals. Biophysics majors are also sought after by companies in novel areas such as bioinformatics and genomics.

What are the basic first- and second-year courses?

Year One, Fall Term

Calculus I (110.108), 4cr
General Physics I (171.101 or 103), 4cr
General Physics Laboratory (173.111), 1cr
Introductory Chemistry I (030.101), 3cr
General Chemistry Laboratory I (030.105), 1cr
Elective course

Year One, Spring Term

Calculus II (110.109), 4cr
General Physics II (171.102 or 104), 4cr
General Physics Laboratory (173.112), 1cr
Intro Chemistry II (030.102), 3cr
Elective course

Also appropriate in the fall semester is **Topics in Biophysics Research (250.131)**, a course specially designed to give majors a view of key problems and approaches in contemporary cellular and molecular biophysics. Students with particularly strong interest in physics may take **Introduction to Classical Physics (171.105-106)**, the sequence for physics majors.

Year Two, Fall Term

Intro Organic Chemistry I (030.205), 4cr
Intro Organic Chemistry Lab (030.225), 3cr
Intermediate Physics (171.319), 4cr
Linear Algebra (110.201), 4cr

Second Year, Spring Term

Intro Organic Chemistry II (030.206), 4cr
Intermediate Physics (171.320), 4cr
Calculus III (110.202), 4cr
Elective courses

At some point during the second and third years, students should take:

Fall Term

Biochemistry (020.305), 4cr
Biochemistry Laboratory (020.315), 2cr

Spring Term

Cell Biology (020.306), 4cr

Variations on this program are possible, and students should consult their advisers about possible options.

Chemistry

Director of Undergraduate Studies

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The material world is composed of atoms that can combine and recombine in countless ways. Chemistry focuses on how atoms form molecules, and how molecules react to form other molecules.

At Hopkins, chemistry is a laboratory-rich discipline that invites students to work closely with faculty on research projects. Remsen Hall offers a state-of-the-art environment to delve into the astonishing complexity of the physical world. Chemistry majors frequently obtain publishable results from their research by the time they graduate.

Careers available to chemistry majors

The graduating senior chemistry majors choose a variety of directions. Some will go on to graduate school in chemistry to do chemical research and teach. Others will go into a field of engineering or environmental sciences. Many Hopkins students use a major in chemistry as preparation for a career in medicine.

What are the basic first- and second-year courses?

Year One, Fall Term

Introductory Chemistry I (030.101), 3cr
Intro Chemistry Laboratory (030.105), 1cr
Calculus I (110.108), 4cr
Elective courses

Year One, Spring Term

Intro Chemistry II (030.102), 3cr
Calculus II (110.109), 4cr
Elective courses

Year Two, Fall Term

Intro Organic Chemistry I (030.206), 4cr
Intro Organic Chemistry Lab (030.225), 3cr
General Physics I (171.101), 4cr
General Physics Lab I (173.111), 1cr
Elective courses

Year Two, Spring Term

Intro Organic Chemistry II (030.206), 4cr
Intermed Organic Chem Lab (030.228), 3cr
General Physics II (171.102), 4cr
General Physics Lab II (173.112), 1cr
Elective courses

Students with a score of 4 or 5 on the A.P. chemistry examination are exempted from the introductory and intermediate chemistry courses (030.101 and 030.204) and their laboratories (030.105-106). Instead they should take General Physics I and II (171.101-102) and General Physics Laboratory (173.111-112) in the first year.

The Chemistry Department strongly recommends that all chemistry majors take general physics by the sophomore year, if at all possible, in preparation for physical chemistry in the junior year. Physical chemistry is a prerequisite for most higher level chemistry courses. However, it is possible to take general physics in the third year and still complete the major in four years.

Classics

Director of Undergraduate Studies

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Classics is the study of ancient Greek and Roman culture in the broadest sense: language, literature, art, religion, mythology, gender, political thought, ethics, and science. The discipline includes not only the study of cultures, but the study of their relationship to Western societies down to the present day. The Classics Department at Johns Hopkins seeks to maintain a dialogue between ancient cultures and modernity, on the premise that the ancients often provide an illuminating background to contemporary debates.

Careers available to classics majors

Some classics majors choose to pursue their interests in the ancient world at the graduate level and

aim for careers as teachers or academics. But most have other goals: they find that the discipline of classics helps them to develop the analytic skills and critical reading ability that are essential in professions such as law, journalism, business, and medicine.

What are the basic first- and second-year courses?

- The appropriate level of Greek or Latin.
- Look for introductory courses with 100 or 300 numbers: most of these have no prerequisites and are open to freshmen.
- Related survey courses in other departments, especially in Philosophy and Near Eastern Studies.

Cognitive Science

Director of Undergraduate Studies

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By majoring in cognitive science, students approach one of today's scientific frontiers, the study of the mind, from a rich multidisciplinary perspective, that draws from cognitive psychology, neuroscience, linguistics, computation, and philosophy of mind. They receive training in a variety of investigative methods ranging from biological and behavioral experimentation to computational and mathematical modeling, which are not only central to the study of mind but are also valuable in other scientific and professional endeavors, specifically:

1. Extensive training in examining evidence and developing and evaluating arguments provides students strong preparation for careers in science and other areas where argumentation is central, ranging from philosophy and economics to law and public policy.
2. Ample experience in laboratory research with brain-damaged as well as normal human populations offers excellent training for research careers in experimental psychology and cognitive science as well as in medical fields such as neurology, language disorders, and clinical psychology.
3. Training in computational and mathematical theories of language processing provide a strong basis for careers in the explosively

growing field of computer language processing, as well as cutting-edge interdisciplinary basic research in human language.

Careers available to cognitive science majors

Students with undergraduate degrees in cognitive science are well-prepared to enter graduate programs, not only in cognitive science, but also in related disciplines such as cognitive psychology, linguistics, computer science clinical neuropsychology, and speech and hearing sciences. The programs most often lead to careers in research and teaching but also to work in government, business, or health care. The cognitive science major is also appropriate for students planning to attend medical school, especially students with interests in neurology and related specialties.

What are the basic first- and second-year courses?

- Take introductory courses like Language and Mind (050.102), Cognition (050.101), Intro to Cognitive Neuropsychology (050.105), Minds, Brains, and Computers (050.109), or The World of Language (050.140) when they are offered.
- Calculus I and II (110.106-107 or 108-109), plus an introductory computer science course by the second year.
- Begin the study of a foreign language at the appropriate level.

Earth and Planetary Sciences

Director of Undergraduate Studies

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Earth and planetary sciences is the study of the physical, chemical, and biological processes that shape Earth and the other planets. These processes range from fluid circulation in the Earth's core, to the study of solid earth processes (including volcanic eruptions), groundwater circulation, oceanic and atmospheric circulation, to the processes involving ecology, geobiology, and paleoclimatology. An understanding of the processes and forces that shaped the Earth provides a means for predicting future changes in our world.

Programs of study include majors and minors in Earth and planetary sciences and in the environmental Earth sciences. In addition, the department offers students who are planning careers in the health professions an Earth and planetary sciences major consistent with those interests.

Careers available to Earth and planetary sciences majors

Students who major in this department often attend graduate or professional school, and then choose careers in academic institutions, natural resource-oriented industries, or government agencies.

What are the basic first- and second-year courses?

Depending on student background, it may be appropriate to initially take a freshman seminar or 100-level course designed for the non-major. Current freshman seminars offered in the fall include 270.101 and 270.102.

Before the end of the second year, the interested student, should take:

- Calculus I and II (110.108-109), 4cr
- General Physics I and II (171.101-102), 4cr
- General Physics Lab (173.111-112), 1cr
- Introductory Chemistry I (030.101), 3cr
- Introductory Chemistry Lab (030.105), 1cr

We recommend that you complete Calculus I and II in the first year along with one of the sciences and labs, either chemistry or physics.

Those with some background in Earth and planetary sciences may also begin a set of core requirements at the 200-level:

- 270.220 Dynamic Earth
- 279.221 Dynamic Earth Laboratory
- 270.222 Earth Materials
- 270.223 Earth Materials Laboratory
- 270.224 Oceans and Atmospheres
- 270.225 Earth Systems History
- 270.226 Earth Systems History Laboratory

East Asian Studies

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The overwhelming majority of historically significant human activity has occurred within the vast

territories and among the large populations of the civilizations of Asia. Considered within the larger span of millennia, the history of the last five centuries, since the voyages of Columbus, for example, is an unprecedented departure from past norms. The unique period of Western growth is giving way to a resurgence in the growth of Asian nations. For students who are interested in this development, it is clear that there is need for more than the traditional superficial acquaintance with Asian affairs that even the best American universities have offered. The East Asian Studies program at Johns Hopkins is multidisciplinary and interdepartmental, drawing on faculty from the disciplines of history, anthropology, history of art, Near Eastern studies, political science, international studies, and Asian languages. Its purpose is to provide the knowledge, research topics and methods, and language skills that will be needed to enter various specialized professions that deal with Asian affairs.

Careers available to East Asian studies majors

The East Asian studies disciplines attract students who are interested in other cultures and who have strong verbal and analytic skills. This is a strong liberal arts program that would be excellent preparation for many careers including law, journalism, medicine, business, or graduate study in the social sciences or history.

What are the basic first- and second-year courses?

- Begin study of an Asian language at the appropriate level. Three years of an Asian language are required and a student should begin this as soon as possible.
- Look for introductory courses on Asian and world history and current affairs in the departments of History, Anthropology, and Political Science.

Economics

Director of Undergraduate Studies
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This discipline begins with the study of the basic components of the marketplace (i.e., production, distribution, and consumption of commodities), both at the macroeconomic level with its emphasis on economics at the national level—employment, inflation, and the gross national product—and at the microeconomic level—laws of supply

and demand, allocation of resources, theories of the firm or consumer behavior.

Careers available to economics majors

Students can choose careers as stockbrokers, financial analysts, hospital administrators, and teachers to name just a few. Graduates may go on to law school, business school, or medical school, as well as graduate school in economics.

What are the basic first- and second-year courses?

Year One, Fall Term

Elements of Macroeconomics (180.101), 3cr
Calculus I (110.106), 4cr
Elective courses

If you do not have the background for Calculus I, take Introduction to Calculus (110.105).

Year One, Spring Term

Elements of Microeconomics (180.102), 3cr
Elective courses

Year Two, Fall Term

Microeconomic Theory (180.301), 4.5cr
Elective courses

Year Two, Spring Term

Macroeconomic Theory (180.302), 4.5cr
Elective courses

Consider taking Statistical Analysis (550.111) in the fall or spring term of year two. Several business courses, appropriate for sophomores, are offered through the School of Engineering.

Engineering Majors

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English

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English is more than our spoken language. The study of English as a discipline examines the richness and complexity of its origins and the incredible wealth of literature that has been passed down to us through the ages. Through exploring the literature of a particular period, we are better able to appreciate its culture and our own.

The traditional and consistent aim of the Department of English is to offer undergraduates the best possible grounding in critical reading and

writing. Students will study American and English literature in general. But they will also be able to focus on poetry, critical theory, or the literature of a particular period.

Careers available to English majors

The career possibilities open to English majors are innumerable. While careers in journalism, publishing, and teaching are traditional directions, often majors prepare for careers in law or join the corporate sector where they use their abilities to think critically and communicate succinctly in an array of venues. And finally, to quote the JHU Premedical Guide written by members of the Premedical Honor Society, "Integrating premedical requirements into the English major can be done easily, though you may encounter weeks when you are required to write fifteen-page papers as well as study for science exams."

What are the basic first- and second-year courses?

- Lower-level English literature and/or composition courses.
- Introductory courses in the humanities or social sciences, e.g., *Philosophic Classics* (150.11), *History of Occidental Civilization: The Medieval World* (100.102), or *Introduction to American Politics* (190.101).

Environmental Earth Science

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This major is for undergraduates interested in a thorough study of the processes that shape Earth's environment, drawing on the disciplines of geology, geochemistry, hydrology, ecology, geobiology, oceanography, and atmospheric science.

For first- and second-year students the program runs parallel to Earth and planetary sciences elaborated above. However, upper-level courses emphasized in the environmental program include such courses as:

Geobiology
Population and Community Ecology (270.308)
Global Change and Human Health
Introductory Oceanography
Introductory Geochemistry

Groundwater
Global Geochemical Cycles and Climate
Change (270.394)

Environmental Sciences (minor only)

Director of Undergraduate Studies

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This minor is designed for students from other science and engineering disciplines who wish a scientific introduction to the physical, chemical, and biological processes that control natural environments, while developing expertise in their major field.

Environmental Studies (minor only)

Director of Undergraduate Studies

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This minor is designed for students majoring in international studies or other social sciences or humanities disciplines who wish a general introduction to the disciplines that are concerned with Earth's environment and an understanding of environmental issues.

Film and Media Studies

Director of Undergraduate Studies

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Film and Media Studies is an interdisciplinary program incorporating courses in film and television history and theory, film and digital video production, and screenwriting. The program provides a central unifying focus for film and media studies across the humanities at Hopkins, drawing on faculty from the departments of English, German, History, History of Art, the Humanities Center, Philosophy, Romance Languages and Literature, and the Writing Seminars. The major is designed to train students to understand the history of film and media, to think critically about them, and to gain hands-on experience in how they are made.

Careers available to film and media studies majors

The opportunities for graduates with a film and media studies major are various: some students attend graduate school in film, whether as film

scholars or as filmmakers. Some pursue careers in curating, film preservation, or communications. Others make careers in production—film television, or multimedia. Because the program provides an especially strong emphasis on writing, visual analysis, and critical thinking skills, our graduates are prepared for careers in a number of fields.

What are the basic first- and second-year courses?

- Introductory English and history courses. Begin a foreign language, or continue if placed at the intermediate level.
- Consider Why Film Matters (061.144) in the fall term.

In later semesters look for Introduction to Film Theory (061.142), Introduction to Film Production (061.240), or Introduction to Visual Language (061.241), and film courses in various humanities departments.

French—see Languages

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German—see Languages

Director of Undergraduate Studies

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History

Director of Undergraduate Studies

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History is both a humanistic and a social science discipline devoted to the narration of the activities of people living in the past and to the interpretation of their changing societies and cultures. The discipline of history also offers a means of understanding today's world through an investigation and analysis of its origins in the past.

The internationally acclaimed faculty offers concentrations in African, East Asian, European, Latin American, and U.S. history, while encouraging comparative and interdisciplinary studies. Students will become well-versed in the study of

historiography and historical research methods. The department emphasizes original research and strongly encourages students to undertake a senior thesis supervised by a faculty member of the student's choosing. Outstanding students may qualify for the four-year B.A./M.A. degree program.

Careers available to history majors

History graduates go on to a wide array of careers in education, government, business, and even medicine. Because of their solid grounding in the humanities, social sciences, and analytic writing, many graduates choose to pursue a career in law. Often history majors will earn an advanced degree at some point after their B.A.

What are the basic first- and second-year courses?

- A one-year sequence of two related introductory courses in Occidental Civilization, U.S., Russian, Latin American, African, or East Asian history (your choice).
- Appropriate foreign language courses, given your knowledge and interests.
- Undergraduate Seminar in History (100.193-194) in the second year. This is a two-semester required course.
- Explore an auxiliary field such as anthropology or sociology in the social sciences, or philosophy or history of art in the humanities.

History of Art

Director of Undergraduate Studies

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Art history is a humanistic discipline dedicated to the study of painting, sculpture, and architecture within various social, political, and historical contexts. Not only does the study of art history offer undergraduates a means of understanding artistic creation, but it also provides a unique perspective on the history of culture.

Art history at Hopkins introduces undergraduates to the richness and complexity of art through training in research, analysis, and writing. Undergraduates work closely with faculty in courses that focus on Western art and the methodologies of art history, beginning with the introductory survey and then progressing to more

advanced courses on specific topics and historical periods in ancient, European, and American art. Students are also encouraged to study non-Western art and may choose among the department's course offerings in African, Asian, pre-Columbian, and Islamic art.

Students have easy access to the outstanding collections of the Baltimore Museum of Art on the Hopkins campus and the Walters Art Museum in downtown Baltimore. Field trips to museums in Washington, D.C., and New York City also bring faculty and students together to study important permanent collections and to look closely at works in temporary exhibitions. Undergraduates studying art history at Hopkins are encouraged to attend departmental lectures featuring internationally renowned contemporary artists, museum curators, and critics, as well as visiting scholars from around the world.

Many art history majors at Hopkins work as interns at the neighboring Baltimore Museum of Art or the Walters Art Museum, where they gain practical, behind-the-scenes experience. The university's own archaeological collection affords students opportunities for both research and internships, as does the Evergreen House. Art history majors often spend a semester or a year abroad, traveling, studying, and pursuing individual projects in Europe and elsewhere.

Each year a small group of Hopkins undergraduates participates in semester-long and intersession programs at the university's Charles S. Singleton Center for Italian Studies at the Villa Spelman in Florence. In the intersession program, the churches, palaces, museums, and piazzas of Florence and nearby cities serve as the classroom for an intensive three-week course on Italian painting, sculpture, and architecture that offers students an extraordinary opportunity to study masterpieces of Italian art in the original.

Careers available to art history majors

Because the department emphasizes the historical, cultural, and social context of art, art history is an excellent program for those interested in a strong humanistic education, as well as for those preparing for a career in the field. For students who intend to conduct research or teach art history, the university offers superb preparation for advanced graduate training.

The history of art curriculum is built on a solid foundation in the social sciences and humanities,

as well as in research, writing, and methods of analysis and criticism. Students of art history at Hopkins, therefore, are well-prepared to pursue careers in such fields as law, business, secondary-level teaching, and government or public service.

What are the basic first- and second-year courses?

- Introduction to the History of European Art (010.101-102) in Year 1.
- Appropriate foreign language courses given your knowledge and interests; French, German, or Italian are recommended.
- History or other humanities courses that will complement the study of art.
- There is a January program in Florence for those who are interested in Renaissance art. Students interested in this program should complete Introduction to the History of European Art (010.101) or Renaissance Florence (010.339) in the fall.

History of Science and Technology

Director of Undergraduate Studies

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This interdisciplinary program offers a bridge between the two cultures of science and the humanities. It aims to produce graduates who are scientifically literate and technically competent, and who understand science and medicine not as static, self-contained enterprises but rather as modes of thought that have developed in specific historical and social contexts.

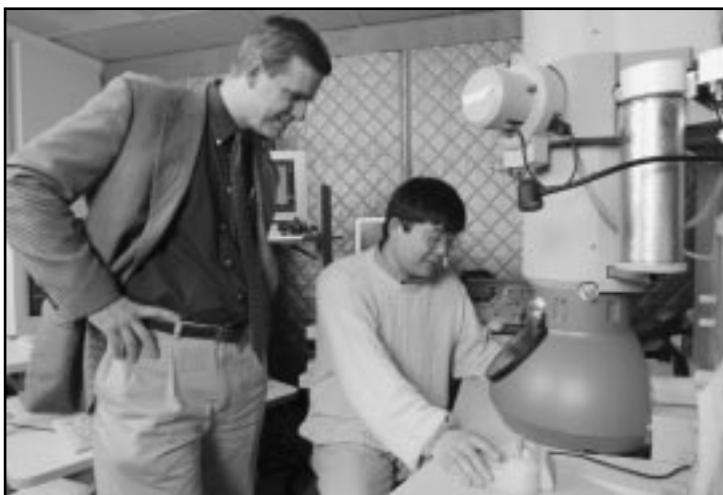
The faculty have diverse interests in the history of science and medicine from antiquity to the present, with an emphasis on early modern (16th–18th centuries) and 20th-century science and medicine. The department is unique in that it combines the resources and traditions of the History of Science Department at the Homewood campus with the faculty from the Institute of the History of Medicine located at the School of Medicine in East Baltimore.

Careers available to science, medicine, and technology majors

In recent years graduates have pursued careers in history of science, medicine, public health, biology, museology, history, law, and science writing. The major is appropriate for any student planning a career in health care professions. The major and minor are flexible enough to serve as a basis for a variety of careers demanding an informed knowledge about science and technology and their impacts on society.

What are the basic first- and second-year courses?

- At least one departmental freshman seminar and/or introductory survey course (Year 1).
- Courses in natural sciences (courses coded N) and one semester of calculus (if needed for science courses).
- Foreign language instruction is recommended but not required.



International Studies

Director of Undergraduate Studies

Dr. Steven David

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International studies is a dynamic multidisciplinary field that examines global interactions. It is an academic mixture of foreign language study, political science, economics, and history. Beyond being one of the most popular areas of concentration at JHU, the program is distinguished by offering its majors the possibility of completing a combined B.A./M.A. degree in five years in conjunction with the Nitze School of Advanced International Studies (SAIS). Also many students will study abroad in the junior year.

Careers available to international studies majors

Many career opportunities are open to students with a degree in international studies. Students can choose a career in law, politics, government service, international finance and banking, international business, the foreign service, or research institutes. In addition, academic careers are open to those who have obtained advanced degrees in a specific area of international studies.

What are the basic first- and second-year courses?

Being an interdisciplinary program, international studies includes a wide array of requirements.

Year One, Fall Term

Elements of Macroeconomics (180.101), 3cr

Foreign Language

Any History of Occidental Civilization

(100.101-105), 3cr

Year One, Spring Term

Elements of Microeconomics (180.102), 3cr

Foreign Language

Serious students should take **Contemporary International Politics (190.209)** or **International Politics (190.213)** in the fall and a second political science course in the spring semester.

Plan to continue with a foreign language in the sophomore year. Use your electives to explore other courses in the social sciences and to earn at least six N, Q, E credits (see table on page 11) so you will have the flexibility to study abroad in your junior year. Many international studies majors also minor in a related field like economics, entrepreneurship and management, or foreign language.

Italian—see Languages

Director of Undergraduate Studies

Dr. Walter Stephens

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Languages (also see Russian)

French:

Dr. Christian Delacampagne

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Italian:

Dr. Walter Stephens

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Spanish:

Dr. Jose Monleon

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German:

Dr. Rochelle Tobias

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These departments have overlapping missions and directions. Each views knowledge of the languages and cultures of societies other than our own as a powerful tool in our increasingly complex international world. Each emphasizes both strategic and close readings of texts, modern (and postmodern) theories of literary criticism, and trends in intellectual history.

All these departments share certain attributes such as small class size, state-of-the-art language laboratory facilities, daily satellite downlink of international broadcasts, and a significant interest in literary and cultural criticism/theory. They all strongly encourage their students to study abroad for one or two semesters.

Each of these language departments expects its majors to take additional courses in the humanities and social sciences. French majors are encouraged to pursue independent study emphasizing theater and film, philosophy or literary history. German majors tend to concentrate on literature, philosophy, and the intersection of culture and politics. Study abroad in Berlin is encouraged in the junior year. Students concentrating on Spanish language must take courses in

both Latin American studies and peninsular literature.

Careers available to language majors

It is important to realize that many students who meet graduation requirements in one of the language departments also have a second major. These other majors range from biology to international studies so the career prospects include science, international business, law, public policy, teaching, and much more.

What are the basic first- and second-year courses?

- An appropriate level of grammar and composition or literature courses in the department each semester.
- N, Q, and/or E credits for the distribution requirement if you intend to study abroad.
- History, anthropology, and/or political science courses that focus on your countries of interest.

Latin American Studies

Director of Undergraduate Studies

Dr. Sara Castro-Klaren

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Extending from Spain to Argentina, Portugal to Brazil, together with Central America, large parts of the Caribbean, and the United States, Spanish- and Portuguese-speaking cultures generate excitement. These cultures claim several recent Nobel Prize-winning authors, a fascinating if sometimes turbulent history, and most important a promising future: culturally, economically, and politically. Home to a rich ethnic mixture of European, African, and indigenous cultures, the Luso-Iberian world offers interesting opportunities to examine the interactions between peoples of differing linguistic, racial, and religious backgrounds.

Students work with faculty from across the curriculum (History, Anthropology, Geography, Political Science, Sociology as well as Spanish and Portuguese languages) to shape programs of study uniquely suited to individual interests. Students are encouraged to study abroad in the junior year, and the program offers travel funds for such study.

Careers available to Latin American studies majors

All graduates take away an intense enthusiasm for their subject. Many go on to advanced degrees in law or medicine, or enter doctoral programs. Others may pursue diverse careers including business, government, or journalism. Some take advantage of their language skills to work abroad.

What are the basic first- and second-year courses?

- Begin study of a foreign language (generally Spanish or Portuguese) at the appropriate level.
- Consider courses related to Latin America that are offered in various social science departments.

Linguistics (minor only)

Dr. Luigi Burzio

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The minor in linguistics takes advantage of the resources in the Department of Cognitive Science, which is internationally at the forefront in the study of human language and the field of theoretical linguistics. Courses are offered in all major areas of linguistics: syntax, phonology/phonetics, and semantics.

Career applications of the minor

A minor in linguistics is a significant asset for later pursuing a Ph.D. in linguistics or closely related fields, as well as careers in various areas such as language teaching, speech and language disorders, and the explosively growing field of computer language processing.

What are the basic first- and second-year courses?

- Take some lower-level linguistics courses, like *World of Language (050.140)* or *The Structure of English (050.205)*.
- Continue with the more technical introductory courses: *Introduction to the Syntax of Natural Language (050.320)* and *Sound Structure in Natural Language (050.325)*.
- Begin the study of a foreign language at the appropriate level.

Mathematics

Director of Undergraduate Studies

Dr. Jason Howald

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Mathematics is fundamental to science and technology. It is a way of thinking—an art as well as a science. Mathematics is based upon precise expressions, logical arguments, and the search for patterns and structure. Indeed, mathematics is essential to understanding the natural world.

Careers available to mathematics majors

The clarity of thought that is developed in the study of mathematics is widely recognized in the world at large. Successful mathematics majors are warmly welcomed by law schools, business schools, and medical schools, as well as by graduate programs in the sciences, engineering, and economics.

What are the basic first- and second-year courses?

- Calculus through Calculus III, Linear Algebra, and Differential Equations.
- Courses in computer science, physics, or economics, depending on individual interests.
- Courses in logic and the history of technology may be of interest: Introduction to Symbolic Logic (150.218) when offered, and Seven Wonders of the Modern World (140.329), as well as Elementary Number Theory (110.204).

Multicultural and Regional Studies (minor only)

Dr. Felicity Northcott

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This minor offers undergraduates a chance to concentrate on a region, population, or theme from a cross-cultural perspective. The minor requires the completion of 18 credits, and students are required to write a brief proposal outlining the intended program.

Music (minor only)

Contact OAA for more information

The music minor is intended for students who have some background and training in music and wish to pursue their interest in a systematic way without getting their degree in the field.

Natural Sciences Area

Dr. Ruth Aranow

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This major is intended for students who want the opportunity to fashion a major according to their needs from appropriate upper-level courses in two different areas of natural sciences. The student is free to select the courses to be taken as long as the program forms a sensible, coherent whole.

The area major can be used as preparation for a career in the health fields if the introductory courses include the prescribed courses for admissions to these professional fields. The area major includes more work in the humanities and social sciences than required by other natural science majors, thus providing a broader education in the liberal arts.

Near Eastern Studies

Director of Undergraduate Studies

Dr. Richard Jasnow

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Students of the ancient Near East study the earliest human civilizations, dating back to roughly the first half of recorded history in the Eastern Mediterranean world. Geographically, the ancient Near East encompasses present day Iran, Iraq, Syria, Saudi Arabia, Egypt, Israel, Palestine, Jordan, Lebanon, and Turkey.

The department focuses especially on the cultures of Egypt and Assyria as well as Northwest Semitic languages and literatures. A study of the Hebrew Bible in its ancient setting is a prominent part of the program. Working closely with their advisers, students design individual programs to supplement the core of Near Eastern language study and ancient Near Eastern history. A minor in ancient law also is available.

Careers available to Near Eastern studies majors

Beyond the possibility of advanced scholarly study in graduate school is an array of options in journalism, publishing, foreign service, and law. Museum studies and theological study are also long-range options.

What are the basic first- and second-year courses?

- An introductory course such as **Ancient Near Eastern Civilization (130.101)** or **Ancient Egyptian Civilization (130.135)**.
- A Near Eastern language. Two years of study is required for the major.
- Students with some prior experience or special interest might take other advanced courses in the department with the instructor's permission.
- Freshmen are also welcome to take any of the elementary or introductory-level language courses like **Biblical Hebrew** or **Modern Hebrew**.

Neuroscience

Director of Undergraduate Studies

Dr. Gregory Ball

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Neuroscience seeks to understand the nervous system and its functioning levels ranging from molecules interacting with cell membranes, to brain systems subserving cognitive functions such as language. Scientists from the departments of Biology, Biomedical Engineering, Biophysics, Cognitive Science, and Psychological and Brain Sciences along with the Mind/Brain Institute have joined forces to offer two degree programs: 1) a four-year B.A. program and 2) a five-year B.A./M.S. program involving a yearlong intensive research experience in a lab on the Homewood campus or at the medical institutions. The programs are tailored not only for students planning to enter Ph.D. programs but also for premed students. The B.A. program is open to all undergraduate students; admission to the B.A./M.S. program is selective. Students in both programs take a sequence of courses surveying theory and research in cellular and molecular neuroscience, systems neuroscience, and cognitive neuroscience. The students then concentrate in one of these areas as they take advanced courses and conduct research.

Careers available to neuroscience majors

This major is excellent preparation for pursuing postgraduate study in neuroscience or psychology, and for medical school. Some graduates combine these fields in M.D./Ph.D. programs. Others specialize in psychiatry.

What are the basic first- and second-year courses?

Year One, Fall Term

Calculus I (110.106), 4cr

Introductory Chemistry I (030.101), 3cr

Intro Chemistry Laboratory I (030.105), 1cr

Topics in Neuroscience I (080.101),

(2 credits recommended but not required; offered both fall and spring)

Year One, Spring Term

Calculus II (110.107), 4cr

Intro Chemistry II (030.102), 3cr

Intro Chemistry Laboratory II (030.106), 1cr

Year Two, Fall Term

Systems Neuroscience (080.205), 3cr

Elective courses

Year Two, Spring Term

Cognitive Neuroscience (080.203), 3cr

Elective courses

Philosophy

Director of Undergraduate Studies

Dr. Dean Moyar

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What is truth? Do we know anything, or is all "knowledge" merely opinion? Why should we be moral? Such fundamental questions lie at the heart of philosophy. These questions are perennial, so philosophers not only consider current answers to them but also past answers, which remain a vital source of philosophical inspiration. The Philosophy Department at JHU offers a broad-based curriculum that combines contemporary approaches to philosophical problems and the study of their historical development.

Small class size in advanced courses allows students to work closely with professors. Also the department encourages its students to combine their study of philosophy with other areas of the curriculum in pursuit of a double major.

Careers available to philosophy majors

Many philosophy majors go on to law school or medical school, well-prepared by studies in ethics, moral philosophy, and a strong background in the historical development of Western philosophy. Because the department encourages links with other disciplines, students will further widen their field of potential careers.

What are the basic first- and second-year courses?

- Explore philosophy by taking survey courses like **Philosophic Classics (150.111)**, **Philosophic Problems (150.112)**, or one of the undergraduate seminars offered by the department like **Highlights of Ancient Greek Philosophy (150.191)**.
- Introductory-level courses in history/history of science, psychology, or political science would be suitable auxiliary courses, as would a foreign language.

Physics and Astronomy

Director of Undergraduate Studies

Dr. Mark Robbins

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Physics is the quantitative study of the natural laws of the universe. Physicists study the basic principles that underlie many of the other sciences. Astronomy focuses on the study of planets, stars, galaxies, and other objects, both visible and invisible, to understand the structure and evolution of the universe.

From the freshman year on, students are encouraged to pursue research projects in addition to their classroom studies. Such projects allow students to gain an early exposure to current research problems and modern experimental methods. A special undergraduate laboratory enables students to design research projects based on their own interests, while working closely with faculty members. Students are also able to observe and work at the Space Telescope Science Institute.

Careers available to physics and astronomy majors

The major is excellent preparation for graduate study in physics, astronomy, biophysics, and many engineering disciplines, or for medical or other professional schools. The program is flexible enough to allow students to pursue their own

specific interests after acquiring a solid background in basic physics. Recent graduates have pursued a wide variety of careers, including research at academic, industrial and government laboratories, teaching at all levels, patent law, and applying their quantitative abilities on Wall Street. A bachelor of science degree in physics is also offered. The requirements for the first two years are the same as for the bachelor of arts degree.

What are the basic first- and second-year courses?

- In the first year students who expect to major or minor in physics should take **Introduction to Classical Physics (171.105-106)**. This is the first half of a four-semester sequence that continues with **Special Relativity and Waves (171.201)** and **Modern Physics (171.202)** in the sophomore year. The two comprehensive one-year courses offered by the department **General Physics for Physical Science Majors (171.101-102)** or **General Physics for Biological Science Majors (171.103-104)** are also acceptable prerequisites for the sophomore sequence. However, high school advanced placement courses do not normally provide adequate preparation for 171.201.

Year One, Fall Term

Physics I (see above for course numbers), 4cr
General Physics Laboratory I (173.111), 1cr
Calculus I (110.108), 4cr (or Calc II or III)
Elective courses

Year One, Spring Term

Physics II (see above for course numbers), 4cr
General Physics Laboratory II (173.112), 1cr
Calculus II (110.109), 4cr (or Calc III)
Elective courses

Year Two, Fall Term

Special Relativity and Waves (171.201), 4cr
Contemporary Physics Sem. (172.203), 1cr

Year Two, Spring Term

Modern Physics (171.202), 4cr
Classical Mechanics (171.204), 4cr

Majors should also take the following courses during the first two years:

Calculus III (110.202), 4cr
Linear Algebra (110.201), 4cr
Differential Equations (110.302), 4cr

Political Science

Undergraduate Advising Coordinator

TBA

Each day important events occur in the structures of the local, state, and federal political systems in our country. Students of political science engage in the study of politics and political behavior as well as the institutions and processes through which public policy is formed in different political systems.

Political science at Johns Hopkins emphasizes American politics, comparative government, international relations, political theory, urban politics, and public policy. Outside the Homewood classroom, advanced students have access to opportunities in nearby Washington, D.C. including courses at the Nitze School of Advanced International Studies (SAIS) and internships in the District of Columbia.

Careers available to political science majors

Many think of political science only with regard to futures in law or government service. But graduates go into journalism, teaching, consulting, and public policy, or pursue Ph.D.'s.

What are the basic first- and second-year courses?

- **Introduction to American Politics (190.101)** in the fall term followed by **Introduction to Comparative Politics (190.102)** and/or a political theory course in the spring. Other political science courses are also appropriate.
- Related courses in history, history of science, psychology, sociology, anthropology, or economics such as **Elements of Macroeconomics (180.101)**.

Psychology

Director of Undergraduate Studies

Dr. Craig Stark

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Psychology involves the study of biological and psychological processes underlying animal and human behavior. To understand how and why an individual engages in any behavior, psychologists study a wide range of influences: biological, cognitive, social, and developmental.

Psychology is a large and diverse discipline, and faculty research interests at Hopkins range from the study of models of human memory to the study of sex differences in the brain and behavior of birds. Undergraduates are strongly encouraged to work on projects in the department's research laboratories. The broad scope of psychology encourages connections with study in areas such as biology, biophysics, cognitive science, medicine, neuroscience, public health, and sociology. Internships in clinical psychology also are readily available in the Baltimore area. The psychology program is highly flexible and fits well with premedical studies.

Careers available to psychology majors

About one-third of psychology majors continue their education in graduate school and go on to take research and teaching positions at universities or clinical positions in mental health care facilities. Another third choose careers in business or law. Many psychology majors go on to medical school.

What are the basic first- and second-year courses?

- **Introductory 100-level courses** in the department.
- **Calculus I (110.106)** and **Computer Literacy (600.101)** or other computer science course by the second year.
- **Statistical Analysis I and II (550.111-112)** should be completed during the second year.
- Look for related elective courses in Cognitive Science, Neuroscience, Philosophy, the Humanities Center, Anthropology, and Sociology

Public Health Studies

Director of Undergraduate Studies

Dr. James Goodyear

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Public Health Studies is an undergraduate program unique to Johns Hopkins University. It includes a core undergraduate curriculum in public health with either a natural science or social science emphasis. Seniors will be required to take graduate courses at the Bloomberg School of Public Health.

“[Public] health issues... are big, urgent and critically important... For all our medical virtuosity, 90 percent of health is how you behave and how society behaves around you: safe air, safe water, safe schools.” That is how Dr. Alfred Sommer, dean of the Bloomberg School of Public Health at Johns Hopkins University, describes this exciting and growing field.

Public health combines a knowledge about the biological basis of disease with an understanding of socio-economic factors that shape patterns of sickness and mortality across populations. While physicians treat individuals, public health professionals focus on the health of the community, particularly the causes and risk factors associated with the incidence and spread of disease. A fundamental knowledge in the natural sciences forms the basis for such fields as development of vaccines, microbiology, toxicology, and research on specific environmental health hazards.

Careers available for public health majors

This major provides excellent preparation for a variety of careers in health care as well as the public health profession. Some graduates go on to careers in health finance, social policy analysis at all levels of government, health education/communications, or managing nonprofit organizations. Some choose to go immediately to graduate school in law, nursing, public health, or medicine. Others choose careers in consulting or elsewhere in the private sector. Especially for those completing the natural science emphasis, the major fits well with field experience in the Peace Corps or research opportunities at NIH or the CDC. Overall, the major leads to careers that address the prevention of health problems in a broad variety of populations, but particularly among the disadvantaged.

What are the basic first- and second-year courses?

Public Health Studies—natural sciences focus

- Begin the introductory chemistry and calculus sequence your first year.
- Complete either **General Biology I** and **II** with labs (first or second year) or **Biochemistry and Cell Biology** with labs (second year only)
- Take lower-level courses in social sciences, especially anthropology, economics, or sociology.
- Complete one year of a foreign language.
- In the second year, take **Biostatistics (280.345)**, and **Environment and Your Health (570.303)** in the fall and **Intro to Health Policy and Management (280.340)** in the spring, if possible.
- Take the introductory public health course during January intersession.
- In the third year, take **Intro to Epidemiology (280.350)** in the spring.
- Students take graduate courses at the School of Public Health in the fourth year.

Public Health Studies—social sciences focus

- Introductory courses in the social sciences, such as psychology, sociology, anthropology, and economics.
- Begin study of a foreign language. One year is required.
- Generally, take **General Biology (020.151)** or **Calculus I (110.106)**.
- Take the introductory public health course during January intersession.
- In the second year, take a statistics course, **Environment and Your Health (570.303)** in the fall and **Intro to Health Policy and Management (280.340)** in the spring, if possible.
- In the third year, take **Intro to Epidemiology (280.350)** in the spring.
- Students take graduate courses at the School of Public Health in the fourth year.

Russian (second major or minor only)

Dr. Olya Samilenko

Goucher College, (410) 339-6893

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Hopkins students may complete a Russian major only as a second major.

What are the basic first- and second-year courses?

Students should begin or continue Russian at an appropriate level. Some beginning Russian language sections are also offered at different times at nearby Goucher College. All upper-level courses in the Russian language and literature are taught on the Homewood campus.

Sociology

Director of Undergraduate Studies

Dr. Karl Alexander

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The “sociological imagination” involves being able to understand the relationship between the biographies of individuals and the constraints of the larger social structure within which they live. How does an individual’s location in the social structure (e.g., class, gender, race, ethnicity, nationality, citizenship) affect life chances? How do social policies affect inequality?

Course offerings in Sociology at Johns Hopkins cover a range of important sociological themes including gender and the family, work and personality, medical sociology, education, immigration, race and ethnicity, social movements, and international development, as well as basic sociological methods and theory. The department also offers majors the option of two certificate programs: Cross-National Sociology and International Development (focusing on the development of Third World regions and sociological issues arising out of global integration); and Social Inequality (focusing on the role of social institutions, such as the family, schools, and work, in generating and mitigating inequality). It is also possible for majors to study broadly within the department.

Careers available to sociology majors

Many graduates will continue to study sociology at an advanced level or become researchers at universities, government agencies, or private organizations. Others will follow careers in education, law, medicine, or public health. Their acquired knowledge about social dynamics, institutions, and causes of social change can apply to a variety of public-service fields.

What are the basic first- and second-year courses?

- Take courses in the social sciences—anthropology, psychology, and sociology. Take **Introductory Sociology (230.101)** when it is offered.
- Take **Introduction to Social Statistics (230.301)**, **Research Methods for the Social Sciences (230.302)**, and **Intro to Social Theory (230.303)** in the second year

Spanish—see Languages

Director of Undergraduate Studies

Dr. Jose Monleon

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Women Gender, and Sexuality (minor only)

Undergraduate Advising Coordinator

Dr. Ruby Lal

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This minor promotes interdisciplinary scholarship on women, gender, sexuality, and related issues. Students may begin exploring the minor by taking a 100- or 200-level course crosslisted with the Studies of Women, Gender and Sexuality Program and seek further advice about course selection early in their academic careers.

Writing Seminars

Director of Undergraduate Studies

Professor Dave Smith

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The Writing Seminars at Johns Hopkins enables undergraduates to learn from prominent writers while developing their own voices. This department has several strengths. Students may work on fiction, poetry, science writing, literary journalism, and/or media studies. Course offerings range from *The Short Story and Poetic Forms* to *The Art of the Screenplay* and *Writing About Music*. At the core of the curriculum are courses and workshops in fiction, poetry, and nonfiction.

Classes are small, so that students have the opportunity to work closely with faculty who are both scholars and noted authors. Advanced students conduct their own readings and produce literary magazines. Internship opportunities are available for those interested in newspaper and magazine writing as well as in the teaching of creative writing.

Careers available to Writing Seminars majors

While “many are called and few are chosen” to be poets and novelists, good writers can pursue careers in almost any field. Graduates go on to work successfully as teachers, reporters, technical writers, and screenwriters. A number of students will go on to either law or medical school.

What are the basic first- and second-year courses?

- **Introduction to Fiction and Poetry: Telling It Straight (220.105)** in the fall and **IFP: Telling It Slant (220.106)** in the spring.
- Two semesters of introductory philosophy such as **Philosophic Classics (150.111)**, **Philosophic Problems (150.112)**, or one of the freshman seminars.
- One or two semesters of introductory history courses that are required for the major.
- Begin study of a foreign language (two years are required).



| Areas of Study | Major | Minor |
|--|--------------|--------------|
| HUMANITIES | | |
| Africana Studies | X | X |
| Ancient Law | | X |
| Anthropology (H,S) | X | X |
| Bioethics | | X |
| Classics | X | X |
| East Asian Studies (H,S) | X | |
| English | X | |
| Film and Media Studies | X | X |
| French | X | X |
| German | X | X |
| History (H,S) | X | X |
| History of Art | X | X |
| History of Science, Medicine, and Technology | X | X |
| Italian | X | X |
| Latin American Studies (H,S) | X | |
| Multicultural and Regional Studies | | X |
| Music | | X |
| Near Eastern Studies | X | |
| Philosophy | X | X |
| Romance Languages | X | |
| Russian | X | X |
| Spanish | X | X |
| Writing Seminars | X | X |
| Women, Gender and Sexuality | | X |
| SOCIAL AND BEHAVIORAL SCIENCES | | |
| Africana Studies | X | X |
| Anthropology (H,S) | X | X |
| Cognitive Science (N,S) | X | |
| East Asian Studies (H,S) | X | |
| Economics | X | X |
| Environmental Earth Sciences (E,N,S) | X | |
| Environmental Science (E,N,S) | | X |
| Environmental Studies (E,N,S) | | X |
| History (H,S) | X | X |
| International Studies | X | |
| Latin American Studies (H,S) | X | X |
| Linguistics (N,S) | | X |
| Multicultural and Regional Studies | | X |
| Political Science | X | |

| Areas of Study | Major | Minor |
|--|--------------|--------------|
| Psychology (N,S) | X | X |
| Public Health Studies (N,S) | X | |
| Sociology | X | |
| Women, Gender, and Sexuality | | X |
| NATURAL AND QUANTITATIVE SCIENCES | | |
| Behavioral Biology | X | |
| Biology | X | |
| Biophysics | X | |
| Chemistry | X | |
| Cognitive Science (N,S) | X | |
| Earth and Planetary Sciences | X | |
| Environmental Earth Sciences (E,N,S) | X | |
| Environmental Science (E,N,S) | | X |
| Environmental Studies (E,N,S) | | X |
| Linguistics (N,S) | | X |
| Mathematics (N) | X | X |
| Natural Sciences Area | X | |
| Neuroscience | X | |
| Physics | X | X |
| Public Health Studies | X | |

