This is an interdisciplinary, humanities-based major using a cultural and historical context to explore scientific inquiry and the roots of medicine. The medicine, science, and the humanities major is ideal for students who plan to pursue careers in the health professions as well as those interested in issues of importance to science and medicine, and students who plan to pursue graduate work in a range of humanities, social science, or professional disciplines.

**Goal**

Medicine, science, and humanities majors will develop an interdisciplinary understanding of the cultural and historical roots of scientific inquiry and medicine, with the ability to apply these precepts to contemporary life.

**Objectives**

MSH majors will:

- Gain an introductory awareness of theory, interpretation, and methods in a specific humanistic topic related to science and medicine
- Acquire and develop skills of interpretation and analysis in a specific humanities discipline by focusing on primary and secondary sources such as literature, imagery, film, artifacts, and commentary
- Acquire fundamental skills of writing and oral presentation, emphasizing clear and logical exposition to enhance student readiness for subsequent graduate school, professional school, or the workforce
- Acquire knowledge and experience in the natural sciences
- Understand the advantages of multiculturalism through intermediate mastery of a language beyond English.

**Affiliated Humanities Departments**

- Anthropology (http://anthropology.jhu.edu/)
- Classics (http://classics.jhu.edu/)
- English (http://english.jhu.edu/)
- German and Romance Languages and Literatures (http://grll.jhu.edu/)
- History (http://history.jhu.edu/)
- History of Art (http://arthist.jhu.edu/)
- History of Science and Technology (http://host.jhu.edu/)
- Humanities Center (http://humctr.jhu.edu/)
- Near Eastern Studies (http://neareast.jhu.edu/)
- Philosophy (http://philosophy.jhu.edu/)
- The Writing Seminars (http://writingseminars.jhu.edu/)

**Courses**

**AS.145.101. Death and Dying in Art, Literature, and Philosophy: Introduction to Medical Humanities. 3 Credits.**

In this course, four essential aspects of the theme of death and dying will be examined: Death and Medicine; Emotional Responses to Death; Burying and Commemorating the Dead; and Conceptions of Death. Specific topics relating to each of these aspects that will be covered include illness and causes of death; prevention of death; suicide; death and grief; burial practices; mourning the dead; public commemoration of the dead; life after death; and death and rebirth. Students will explore these topics from a historical-anthropological perspective with Paul Delnero, a specialist in the history and culture of the ancient Near East (Near Eastern Studies); from a literary perspective, by reading and writing poetry relating to these subjects with the acclaimed poet James Arthur (Writing Seminars); and from a musical perspective, through direct encounters with the music and creative process of the award-winning composer, Michael Hersch (Peabody).

**Area:** Humanities

**Writing Intensive**

**AS.145.103. Men, Women, and Melancholy: Premodern Physiologies of Madness. 3 Credits.**

Definitions of madness change over time. From Antiquity through the Early Modern period, Melancholia was the predominant form of mental illness, thought to be caused by an imbalance in the bodily humors, resulting in an excess of black bile. The disturbed physiology adversely affected the imagination, which, with memory and intellect, was one of the three functions of the soul. Only gradually did imagination come to be identified with deliberate creativity: from about 1400 to 1800, there were two stereotypical victims of melancholia: male intellectuals and female witches. The disruption of society by witch-hunting was even more radical than the rise of the "man of genius." At stake were definitions of psychology ("science of the soul") and reality (whether witches and demons interacted "in the body" or only "in the imagination"). Readings from Plato to Freud.

**Area:** Humanities

**Writing Intensive**

**AS.145.104. Science, Medicine, Media. 3 Credits.**

Much of our understanding of science and medicine is filtered through what we casually refer to as "the media": newspapers, magazines, television shows, films, and electronic social media. But the scientific world relies on its own media to produce and circulate knowledge: from scientific journals and conferences, to agar plates and petri dishes, cloud chambers and electrophoresis gels. Medical technologies from the stethoscope to the echocardiogram likewise mediate the perception of the body in health and disease, and increasingly our own understanding and perception of our bodies and our health is mediated via screens, scans, and images — without which we can hardly imagine ourselves anymore. Students will learn theoretical tools to critically assess the technologies that mediate our knowledge of our own bodies and the broader world, as well as practical tools in media production and visual storytelling (video, podcast, website etc.) to bring these analytics to bear on our broader understandings of science and medicine.

**Area:** Humanities, Social and Behavioral Sciences

**Writing Intensive**
AS.145.105. Freshman Seminar. 3 Credits.
Freshman Seminar Course. Topics will vary semesterly. See class search for information for the current term.
Area: Humanities
Writing Intensive

AS.145.110. Exploring Medical Careers. 1 Credit.
Many people are unaware of the diversity of medical and health careers. This program introduces scientific knowledge and practical career knowledge by participating in lectures, labs, hands-on/simulation activities, interviews, and workshops.
Area: Natural Sciences

AS.145.117. Freshman Seminar: Heart Matters. 3 Credits.
To the human imagination, the heart is more than a muscle and thumping pump keeping us alive. From the Renaissance to the present, writers have helped us make sense of our bodies, in health and in illness or pain. Our aim will be to trace the historical, cultural and subjective meanings our minds have given to this “sublime engine.” Our materials will involve a constellation of attentive readings of a literature involving poems, modern fiction as well as recent scientific prose.
Area: Humanities
Writing Intensive

AS.145.201. Clues: Unreasoning the Medical Mystery. 3 Credits.
Pioneering authors of detective fiction, including Edgar Allen Poe, Arthur Conan Doyle, and Pauline Hopkins, often used medical doctors and themes in their mystery plots. It’s no coincidence that medicine and crime fiction share a vocabulary of clues, evidence, and diagnosis. The mystery genre was integrally tied to the rise of scientific medicine as a respected profession. Indeed, classic detective stories are practically propaganda for the scientific method, showing readers how the powerful tools of observation and inference can solve any problem. Over the course of the 20th century, not only doctors, but also psychologists, social scientists and historians adopted the authoritative stance of the detective in constructing or reconstructing facts. However, as we study Sherlock Holmes and his modern proteges, such as TV doctor Gregory House, we will analyze how "medical mystery" narratives can limit our thinking about problems and solutions in medicine. We will consider post-modern detective stories that offer alternatives to the "Holmsian" model for understanding the complex clinical realities of today.
Area: Humanities, Social and Behavioral Sciences
Writing Intensive

AS.145.202. Health Care Activism in Baltimore and Beyond. 3 Credits.
National struggles over the right to health care, and over the health needs of marginalized groups, have taken distinctive forms in Baltimore City during the past century. The renowned Johns Hopkins University came to symbolize, for many residents, the power of medicine both to heal and to harm – and the need for community action. This course delves into the archives of local institutions to understand the work of activists and advocates who connected health, medicine, and social justice. We focus on specific sites, from the segregated wards of Johns Hopkins to the People’s Free Medical Clinic on Greenmount Avenue, where demands for equity changed the city’s health care landscape. Through interdisciplinary readings and conversations with local organizers, we consider how historical memory can serve as a creative resource for the art and politics of the present.
Area: Humanities
Writing Intensive

AS.145.203. Constructing memories: between art and science. 3 Credits.
What is a personal memory? Is it a story or a scene, as if in a film? Is there such a thing as body memory? How tight is the connection between remembering and story-telling? Scientific articles and book chapters in cognitive psychology and the neurosciences can provide some answers to such questions. Two films, “Memento” and “Inside Out” can also help us grasp the impact of major scientific discoveries of how memory works. But our discussions will depend above all on literary and biographical accounts based on the experiences of “rememberers” such as St Augustine, Proust, Woolf, Freud, as well as on cases on amnesia documented by Oliver Sacks, Antonio Damasio, and David Shenk. The latter will help us understand why our ability to engage in mental time-travel is essential to our personal and social existence. Coming out of this course, you will not only have a better comprehension of how autobiographical memory works, you’ll have learned also how some of the sharpest scientific and philosophical minds of our times have tried to make sense of this mysterious human capacity.
Area: Humanities

AS.145.204. Graphic! Visualizing Medicine from Textbooks to Comics. 3 Credits.
Visuels play an important role in the history and practice of medicine, from medical textbooks to medical imaging, and from hospital signage and public health posters to comics and graphic novels. This course will examine the visual aspects of the history and practice of medicine by focusing on the rising genre of medical comics and graphic novels, known as “graphic medicine.” The course will embed this examination of “graphic medicine” in a wider examination of the various uses of visuals in medicine, the complicated history of class, race and gender in those uses, and how visuals have served different functions in the history and practice of medicine, from assisting medical diagnosis to enabling new forms of medical consumerism, and from facilitating doctor-patient communication to practicing art therapy, as well as presenting visual pathographies and documenting patients’ and caregivers’ experiences of disease. Through an assortment of primary sources that include medical comics and graphic novels, aided by a variety of secondary sources that embed these narratives in larger issues in the history of medicine, medical anthropology, and the medical humanities, the course will aim to introduce students to some of the most important themes in the field of “graphic medicine.”
Area: Humanities
AS.145.205. The Costs of Care: Writing about Illness in America. 3 Credits.
Health care can be expensive for those who receive it and those who provide it. In the United States, patients go into debt while doctors suffer from burnout and nurses rush through understaffed wards. The U.S. has the highest healthcare spending of any wealthy nation, yet suffers comparatively worse outcomes. This seminar brings together social science research with patient experiences that show the human face of the American health care debate. We read the work of scholars, poets, and medical practitioners who reflect on core questions: What should be the government's role in healthcare provision? What alternative models have people in marginalized groups developed when the system fails them? Understanding both failures and successes gives us the tools to build new paths.
Area: Humanities
Writing Intensive

AS.145.215. Representations of Pain and Suffering in Contemporary Culture. 3 Credits.
What does it mean to experience pain or encounter the suffering of another person in our post-truth era? This course explores the changing representation of pain and suffering in contemporary film, fiction, creative non-fiction, science and technology. Through analyses and close-readings of a variety of primary and secondary sources, we will consider the different ways twentieth- and twenty-first-century historical, cultural, and media representations have mediated pain and suffering. Such investigations allow us to understand the workings of pain in the present.
Area: Humanities
Writing Intensive

AS.145.217. Neurofictions: History and Literature of the Mind Sciences. 3 Credits.
Neuroscience has a long way to go from mapping neural connections to a precise account of memory, emotion, and consciousness. But the limits of science have never stopped us from imagining its possible futures. Engaging two centuries of debate in the mind sciences and in western culture at large, this course looks at historical attempts to explain and control human consciousness. By placing each period's scientific texts in dialog with contemporaneous science fiction – from Edgar Allan Poe to Ursula K. Le Guin – we discover how theories about the brain can shape society while at the same time responding to social contexts.
Area: Humanities

AS.145.219. Science Studies and Medical Humanities: Theory and Methods. 3 Credits.
The knowledge and practices of science and medicine are not as self-evident as they may appear. When we observe, what do we see? What counts as evidence? How does evidence become fact? How do facts circulate and what are their effects? Who is included in and excluded from our common-sense notions of science, medicine, and technology?
This course will introduce students to central theoretical concerns in Science and Technology Studies and the Medical Humanities, focusing on enduring problems that animate scholars. In conjunction with examinations of theoretical bases, students will learn to evaluate the methodological tools used in different fields in the humanities to study the production and circulation of scientific knowledge and the structures of medical care and public health. This problem-centered approach will help students understand and apply key concepts and approaches in critical studies of science, technology, and medicine.
Area: Humanities, Social and Behavioral Sciences
Writing Intensive

AS.145.301. Naturalizing the Human Body in Early Modern France: the Confrontation of Literature, Science and Politics. 3 Credits.
Literature in early modern Europe was essential to the naturalizing of the human body, a partner in the reshaping of the cultures and disciplines around it. This course looks at several shifts within major literary works of the 17th and 18th centuries, a moment when the interpenetration of the literary, scientific and political cultures was such that “art for art’s sake” would have been considered irresponsible. The primary goals of the course are to allow students to understand the intrinsic literary value of the texts, but equally to show how that literary activity, both of writing and of reading, was the vehicle for the elaboration of the modern mind set. We will focus on three cases: vision, the body’s “economy” and Body of the State, and the “scandal” of smallpox vaccination. Texts will include, for example, extracts from: Newton’s Opticks, Cyrano de Bergerac’s The States and Empires of the Sun, Montesquieu’s Persian Letters and Spirit of the Laws, Voltaire’s English Letters, Rousseau’s The New Eloise, Lacroix’ Dangerous Liaisons, Guillotine’s text inventing the guillotine. For more information, please see the full course description at http://www.wilda.org/Courses/CourseVault/Undergrad/Naturalizing/Description.html. This course and texts will be in English, but readings will also be available in French.
Area: Humanities, Social and Behavioral Sciences
Writing Intensive

AS.145.303. Research in the Medical Humanities: A Practical Introduction. 3 Credits.
This seminar is designed to prepare students for an extended interdisciplinary writing project, such as an honor’s thesis or an undergraduate research proposal. The first part will be devoted to establishing or consolidating skills in research, in methods, and in approaches specific to the medical humanities. Class meeting will involve different formats and types of preparation: studying examples of writing in different domains related to MSH, visits of specialists (e.g. librarians and authors), preparing a proposal to be presented in a workshop, and a well-documented capstone project outlining a proposal. You’ll be asked to submit at regular intervals written results of your work in progress and you must be prepared as well to present your results orally at different important points in our unfolding semester.
Area: Humanities
Writing Intensive

AS.145.401. In Search of the Human: Ways of Remembering. 3 Credits.
Studying narrative as a way of understanding the complex emotions associated with illness and the lifecycle has long been recognized as an important part of clinical training. This course focuses on autobiographical memory as a particularly important part of forming a personal narrative. These memories can offer foundations on which to build an approach to life and its challenges, and they can also be constraining. The course readings will illustrate how authors of fiction and scientists have grappled with the task of remembering and studied the configurations of autobiographical recollection.
Area: Humanities, Social and Behavioral Sciences
Writing Intensive

AS.145.502. Medicine, Science & the Humanities Internship. 3 Credits.
An internship in Medicine, Science & the Humanities approved by the director of the program.
Prerequisite(s): You must request Independent Academic Work using the Independent Academic Work form found in Student Self-Service: Registration & Online Forms.
Area: Humanities, Social and Behavioral Sciences
AS.145.511. Medicine, Science & the Humanities Independent Research. 1 - 3 Credits.
This class is for the MSH majors completing their research project. Instructor approval required.
Prerequisite(s): You must request Independent Academic Work using the Independent Academic Work form found in Student Self-Service: Registration &gt; Online Forms.
Area: Humanities

AS.145.512. Medicine, Science and the Humanities Independent Research. 1 - 3 Credits.
This course is for students in the Medicine, Science & the Humanities doing independent research. Course can be taken up to 3 credits with approval from the director.

Cross Listed Courses

Classics
AS.040.109. Freshman Seminar: The Greeks and Their Emotions. 3 Credits.
This seminar is meant as an introduction to the study of ancient emotions, with a particular emphasis on how the ancient Greeks conceptualized, portrayed and lived their emotions through linguistic, literary and artistic expression. After an analysis of how the ancient Greek emotional experience differs from our own, we shall focus on the phenomenon of emotion as deeply rooted in the physical body, and in light of this we will contemplate (and question) its universality. You will also learn how to research and write a paper. Texts will be read in translation. No knowledge of ancient Greek required.
Area: Humanities
Writing Intensive

AS.040.152. Medical Terminology. 3 Credits.
This course investigates the Greek and Latin roots of modern medical terminology, with additional focus on the history of ancient medicine and its role in the development of that terminology.
Area: Humanities

AS.040.241. The Greeks and Their Emotions. 3 Credits.
This seminar is meant as an introduction to the study of ancient emotions, with a particular emphasis on how the Greeks of the Archaic, Classical and Hellenistic periods conceptualized, portrayed and lived their emotions through linguistic, literary and artistic expression. After an analysis of how the ancient Greek terminology for the emotions differs from our own, we shall focus on the phenomenon of emotion as deeply rooted in the physical body, and in light of this we will contemplate (and question) its universality. Texts will be read in translation. No knowledge of ancient Greek required.
Area: Humanities
Writing Intensive

Comparative Thought and Literature
AS.300.139. Introduction to Intellectual History. 3 Credits.
This course offers a conceptual and historical introduction to Intellectual History. What makes the “history of ideas” different from the history of other objects? What, if anything, distinguishes the history of ideas from the history of philosophy? What is it exactly that we call “ideas”? In what sense do they have a history? These are examples of the kind of questions addressed in the course.
Area: Humanities

AS.300.334. Love and its maladies. 3 Credits.
Much of what we know about love and desire we owe to fiction’s ability to evoke these experiences. Consider for example that the publication, in Germany, of The Sorrows of Young Werther inspired young men across Europe to dress and behave just like this lover. Just as nowadays film and television represent, as well as mold our conceptions of love, love-stories from the eighteenth-century onwards have given shape to gendered subjectivities in ways that still matter now. As, intriguingly, illness is a recurrent theme in many modern love stories, we will be prompted to decipher signs and symptoms in the bodies of mind of our protagonists. Why is it that in Western cultures, passion is tightly interwoven with a landscape of pain, suffering, and disease? In studying texts that represent major aspects of a romantic sensibility, we are indeed invited to trace the steps of a history of the body increasingly defined by gender and by medical knowledge. The readings for this class (all available in English) include: Austen, Persuasion; Balzac, The Unknown Masterpiece; Barthes, Lover’s Discourse; Goethe; The Sorrows of Young Werther; Mann, Death in Venice; Winterson, Written on the Body.
Area: Humanities

AS.300.402. What is a Person? Humans, Corporations, Robots, Trees. 3 Credits.
Knowing who or what counts as a person seems straightforward, until we consider the many kinds of creatures, objects, and artificial beings that have been granted—or demanded or denied—that status. This course explores recent debates on being a person in culture, law, and philosophy. Questions examined will include: Should trees have standing? Can corporations have religious beliefs? Could a robot sign a contract? Materials examined will be wide-ranging, including essays, philosophy, novels, science fiction, television, film. No special background is required.
Area: Humanities

AS.300.439. Stories of hysteria. 3 Credits.
Many are the stories that recount episodes of hysteria, and we owe them not only to medicine. To the modern observer, they are a puzzle, involving strange beliefs about wandering wombs, demonic possession, and female virtue (or lack thereof). Closer to our time, contemporary media, as well as accounts in the social and clinical sciences have evoked cases of “mass hysteria” in America and across the globe. Marriage, it was thought for a long time, might be the best cure, which might be the reason case-studies of this illness can be as intriguing and troubling as novels. Against a backdrop of medical and historical materials, we will examine a selection of stories, from the 17th century onward, that evoke aspects of hysteria. They serve as our case-studies and as prompts to study an illness born at the convergence of histories and myths, of medical science, and of cultural and gender assumptions. Among the notions we will explore: The birth of psychoanalysis, trauma and PTSD, the concept of repression, the visual aspects of an illness and its spread in the arts, including cinema.
Area: Humanities
**AS.300.618. What is a Person? Humans, Corporations, Robots, Trees.**

Knowing who or what counts as a person seems straightforward, until we consider the many kinds of creatures, objects, and artificial beings that have been granted—or demanded or denied—that status. This course explores recent debates on being a person in culture, law, and philosophy. Questions examined will include: Should trees have standing? Can corporations have religious beliefs? Could a robot sign a contract? Materials examined will be wide-ranging, including essays, philosophy, novels, science fiction, television, film. No special background is required.

Area: Humanities
Writing Intensive

**English**

**AS.060.108. Time Travel. 3 Credits.**

Why is time travel such a consistent and perplexing theme in literature and film over the last 150 years? Why is modernity so concerned with peaking backwards or forwards? This course will examine the history of time-travel fiction, from its beginning in utopian fiction through its box-office dominance in the 1980s, and into today. Writers will likely include Mark Twain, Edward Bellamy, Harold Steele Mackay, Ray Bradbury, Robert Heinlein, and Philip K. Dick. Movies will include *The Terminator*, *Back to the Future*, and *Primer*.

Area: Humanities
Writing Intensive

**First Year Seminars**

**AS.001.101. FYS: The Hospital. 3 Credits.**

Johns Hopkins invented the modern hospital along with modern medical education. This seminar will explore the history of the hospital from its monastic origins to its current form, with particular attention to how hospital design has reflected and reinforced ways of thinking about health, disease and medical treatment. We will also consider specialized hospitals and clinics, for the mentally ill, for particular diseases, for women and children, among other topics.

Area: Humanities, Social and Behavioral Sciences

**AS.001.102. FYS: Japanese Robots. 3 Credits.**

Japan is a world leader in biomimetic robotics. Japanese society enthusiastically embraces robotic nurses, robotic guides, robotic waiters, robotic pets, and even robotic boyfriends. What are the origins of the Japanese love of robots? What role did robotics engineers play in creating the image of loveable robots? What societal fears do Japanese robots assuage and what hopes do they foster? In the course of the semester, students will learn about the evolution of Japanese robotics, and explore the implications of this evolution to humans’ relationship with robots.

While learning about Japanese robots, students will acquire skills necessary for college-level education, including how to write an email to a professor, how to organize and manage digital tools, how to navigate the information resources, and how to develop, complete, and present research projects. This course will equip students with skills essential to their success in college and beyond.

Area: Humanities, Social and Behavioral Sciences

**AS.001.107. FYS: Thinking and Writing Across Cultures - East Asia and the West. 3 Credits.**

In this First-Year Seminar, we will explore what it means to think and write across multiple cultures in the contemporary world. What do we gain and/or lose when we think and write crossing cultural boundaries? How do knowledge and experience of two or more cultures help us think and act critically, creatively, and ethically? What does plurality of cultures mean to universal discourses such as science and technology? How can cultural differences help or hamper our efforts to tackle global problems like climate change? These are some of the guiding questions that we will investigate together in this course by examining novels, essays, autobiographies, travelogues, philosophical writings, and films that engage with multiplicity of cultures between East Asia – especially China, Japan, and Korea – and the West as well as within East Asia.

Area: Humanities

**History**

**AS.100.249. From Darwin to Babar: Animals and Humans in Historical Perspective. 3 Credits.**

This course explores perspectives on the animal/human boundary from the eighteenth century through today. Topics will include biological classification, mosquito-borne diseases, animal rights movements, evolutionary theory, colonialism, Nazism, and conservation.

Area: Humanities, Social and Behavioral Sciences

**AS.100.291. Medicine in an Age of Empires, 1500-1800. 3 Credits.**

How did medicine emerge as a distinctive body of knowledge and a profession in the early modern period? The answers lie in the histories of disease, empire, and global commerce.

Area: Humanities, Social and Behavioral Sciences

**AS.100.319. History of American Reproductive Politics. 3 Credits.**

This course examines reproductive politics in the United States from the colonial era to the present. Topics include contraception, abortion, and sterilization, emphasizing the impact of gender, class, and race.

Area: Humanities, Social and Behavioral Sciences
Writing Intensive

**AS.100.331. Reading through Things: Early Modern Chinese Medicine, Technology, and Art. 3 Credits.**

This course introduces the history of late imperial China from the perspective of medicine, technology, and the arts.

Area: Humanities, Social and Behavioral Sciences
Writing Intensive
History of Art
AS.010.208. Leonardo da Vinci: The Renaissance Workshop in the Formation of Scientific Knowledge. 3 Credits.
How does a notary’s son trained as a painter come to claim expertise in the construction of machines and acquire knowledge of the principles of optics, human anatomy, the flight of birds, the dynamics of air and water? The course will focus critically on the myth of Leonardo’s singularity and explore his achievements with regard to the artisanal culture of his time, as well as the problems of authority in the recognition of artisanal knowledge as scientific discovery.
Area: Humanities

AS.010.212. Mirror Mirror: Reflections in Art from Van Eyck to Velázquez. 3 Credits.
Explores the different ways Early Modern painters and printmakers incorporated mirrors and optical reflections into their works for the sake of illusion and metaphor, deception and desire, reflexivity and truth-telling. Connecting sense perception and ethical knowledge, embedded mirror images often made claims about the nature of the self, the powers of art, and the superiority of painting in particular.
Area: Humanities

AS.010.235. Art, Medicine, and the Body: Middle Ages to Modernity. 3 Credits.
This course explores seven centuries of fruitful collaboration between physicians and artists, uncovering the shared discourses, diagnostic techniques and therapeutic agendas that united the art of picture-making with the art of healing. Topics include the origin and development of medical illustration; the long, cross-cultural history of the therapeutic artefact; the anatomical investigations of Renaissance artists such as Leonardo and Michelangelo; depictions of bodily pain and disease in the art of Matthias Grünewald and psychosomatic syndromes like melancholy in the work of Albrecht Dürer; the spectacularization of the body in Enlightenment science and the ethics of medical specimen display today – all in order to bring the complex intersections of the history of medicine and the history of art into view.
Area: Humanities

AS.010.403. Art and Science in the Middle Ages. 3 Credits.
This course investigates the intersections of art and science from the Carolingian period through the fourteenth century and the historical role images played in the pursuit of epistemic truths. Science – from the Latin scientia, or knowledge – in the Middle Ages included a broad range of intellectual pursuits into both the supernatural and natural worlds, and scholars have classified these pursuits in various ways (i.e. experimental or theoretical science, practical science, magic, and natural philosophy).
A particular focus of this seminar will be placed on the assimilation of Greek and Islamic scientific advances in cartography, cosmology, and optical theory into the Latin theological tradition.
Area: Humanities
Writing Intensive

History of Science, Medicine, and Technology
AS.140.105. History of Medicine. 3 Credits.
Course provides an introduction to health and healing in the ancient world, the Middle Ages, and the Renaissance. Topics include religion and medicine; medicine in the Islamicate world; women and healing; patients and practitioners.
Area: Humanities, Social and Behavioral Sciences

AS.140.302. Rise Of Modern Science. 3 Credits.
Survey of major scientific developments from the mid-18th century to the present.
Area: Humanities, Social and Behavioral Sciences

AS.140.321. Scientific Revolution. 3 Credits.
How did the Western understanding of nature change between 1500 and 1720? We’ll study the period through the works of astronomers and astrologers, naturalists and magi, natural philosophers and experimentalists, doctors and alchemists & many others.
Area: Humanities, Social and Behavioral Sciences

AS.140.335. Photography in Science and Medicine (19th Century-Present). 3 Credits.
Since the 19th century invention of photography as a new “art-science,” photographic evidence and techniques have been central to many fields of (social) science and medicine. This seminar examines the uses of photography and related imaging technologies in various disciplines including astronomy, bacteriology, criminology, geology, and radiology.
We will also explore how photography has historically shaped (among many other things) notions of scientific objectivity and ideas about racial difference.
Area: Humanities, Social and Behavioral Sciences

AS.140.391. Individualized Medicine from Antiquity to the Genome Age. 3 Credits.
A seminar for advanced undergraduates. We explore the notion of the individual in medicine over twenty-five centuries, from the Hippocratics to the invention of the case study during the Renaissance to the current JHU medical curriculum. The history of medicine survey, AS.140.105 or AS.140.106, is recommended though not required. Graduate students are welcomed but should expect to do additional work and readings.
Area: Humanities, Social and Behavioral Sciences
Writing Intensive

AS.140.398. Godzilla and Fukushima: Japanese Environment in History and Films. 3 Credits.
Japan is often described as “nature-loving,” and is considered to be one of world leaders in environmental protection policies. Yet current environmental successes come on the heels of numerous environmental disasters that plagued Japan in the past centuries. Juxtaposing Japanese environmental history and its reflection in popular media, the course will explore the intersection between technology, environment, and culture. Students are encouraged to enroll in AS.140.198, “Technology and Environment in Japanese Films and Anime” (1 credit) to attend movie screenings accompanying the course.
Area: Humanities, Social and Behavioral Sciences
Writing Intensive

AS.140.411. Senior Research Seminar. 2 Credits.
Area: Humanities, Social and Behavioral Sciences

AS.140.435. Ways of Knowing: New Histories of Science, Medicine, and Technology. 3 Credits.
What does it mean for science to have a history? Comparing newer approaches with classic works, we will explore different strategies for placing science, medicine, and technology in social context.
Area: Humanities, Social and Behavioral Sciences
Writing Intensive
Modern Languages and Literatures

AS.210.313. Medical Spanish. 3 Credits.
Medical Spanish is a comprehensive examination of vocabulary and grammar for students who either work or intend to work in medicine and health-related fields in Spanish-speaking environments. The student will be able to participate in conversations on topics such as contrasting health systems, body structures, disorders and conditions, consulting your doctor, physical and mental health, first-aid, hospitalization and surgery on completion of this course. In completing the course's final project students will apply, synthesize, and reflect on what has been learned in the class by creating a professional dossier individualized to their professional interests. There is no final exam. May not be taken satisfactory/unsatisfactory. Not open to native speakers of Spanish. No new enrollments permitted after the third class session.
Prerequisite(s): AS.210.311 OR AS.210.312 or appropriate Spanish placement exam score.
Area: Humanities

AS.211.136. Freshman Seminar: Tortured Body, Tortured Soul: Pain in Pre-Modern Europe. 3 Credits.
This Freshman seminar provides an interdisciplinary exploration of pain and the body in pre-modern Europe. Using classical and early modern sources of philosophy, literature, anthropology and medicine, students will analyze the ways in which cultural perceptions shape our responses to suffering.
Area: Humanities

AS.211.137. Freshman Seminar: Borges and Scientific Knowledge. 3 Credits.
A survey of the stories and essays of the great Argentine writer Jorge Luis Borges focusing on the theory of knowledge he developed over his long career. Special attention will be paid to the implications his ideas have for the mathematical and physical sciences, in particular cosmology.
Area: Humanities

AS.211.259. Introduction to Medical and Mental Health Interpreting. 3 Credits.
This course is a broad introduction to the fields of medical and mental health interpreting. Modules will include: (1) Three-way communication: managing role expectations and interpersonal dynamics; (2) Basic interpreting skills and techniques in a healthcare setting; (3) Ethical principles, dilemmas, and confidentiality; (4) Elements of medical interpreting; (5) Elements of mental health interpreting; (6) Trauma-informed interpreting: serving the refugee population. The course is taught in English, and has no foreign language pre-requisites.
Area: Humanities

AS.211.423. Black Italy. 3 Credits.
Over the last three decades Italy, historically a country of emigrants—many of whom suffered from discrimination in the societies they joined—became a destination for hundreds of thousands of migrants and refugees from various countries, and particularly from Africa. Significant numbers of these immigrants came to Italy as a result of the country’s limited, though violent colonial history; others arrive because Italy is the closest entry-point to Europe. How have these migratory flows challenged Italian society's sense of itself? How have they transformed the notion of Italian national identity? In recent years, growing numbers of Afro- and Afro-descendant writers, filmmakers, artists and Black activists are responding through their work to pervasive xenophobia and racism while challenging Italy's self-representation as a 'White' country. How are they forcing it to broaden the idea of 'Italianess'? How do their counternarratives compel Italy to confront its ignored colonial past? And, in what way have Black youth in Italy embraced the #Blacklivesmatter movement? This multimedia course examines representation of blackness and racialized otherness, whiteness, and national identity through literary, film, and visual archival material in an intersectional framework. Examining Italy's internal, 'Southern question,' retracing Italy's colonial history, and recognizing the experiences of Italians of immigrant origins and those of immigrants themselves, we'll explore compelling works by writers and filmmakers such as Igiaba Scego, Gabriella Ghermandi, Maza Megniste, Dagmawi Yimer, and others.
Area: Humanities

AS.211.477. Renaissance Witches and Demonology. 3 Credits.
Who were the witches? Why were they persecuted for hundreds of years? Why were women identified as the witches par excellence? How many witches were put to death between 1400 and 1800? What traits did European witch-mythologies share with other societies? After the witch-hunts ended, how did “The Witch” go from being “monstrous” to being “admirable” and even “sexy”? Answers are found in history and anthropology, but also in medicine, theology, literature, folklore, music, and the visual arts, including cinema.
Prerequisite(s): Students who have already taken AS.214.171 cannot take AS.211.477.
Area: Humanities

AS.212.696. Literature Confronts Science: Zola.
Zola worked with the theories of heredity of his time in the Rougon-Macquart novels. But he also attempted to use his understanding of biology and thermodynamics to reform the theory of the novel in general. This course will examine these two different effects of science on literature and try to see what leads an author to undertake such a project. For a more extended description, please see http://www.wilda.org/Courses/CourseVault/Grad/Zola/Syllabus.html. Advanced undergraduates with sufficient background may register for this course with permission of the instructor.

Near Eastern Studies

AS.130.259. Ancient Science. 3 Credits.
A survey of scientific practices and technological innovations in the ancient world, including astronomy, medicine, law, and divination. Special attention will be devoted to the relationship between magic and science during the periods covered.
Area: Humanities, Social and Behavioral Sciences
**Philosophy**

**AS.150.136. Philosophy & Science: An Introduction to Both. 3 Credits.**

Philosophers and scientists raise important questions about the nature of the physical world, the mental world, the relationship between them, and the right methods to use in their investigations of these worlds. The answers they present are very different. Scientists are usually empiricists, and want to answer questions by experiment and observation. Philosophers don’t want to do this, but defend their views a priori. Why? Can both be right? Readings will present philosophical and scientific views about the world and our knowledge of it. They will include selections from major historical and contemporary figures in philosophy and science. The course has no prerequisites in philosophy or science.

Area: Humanities, Natural Sciences

**AS.150.219. Introduction to Bioethics. 3 Credits.**

Introduction to a wide range of moral issues arising in the biomedical fields, e.g. physician-assisted suicide, human cloning, abortion, surrogacy, and human subjects research. Cross listed with Public Health Studies.

Area: Humanities, Social and Behavioral Sciences

**AS.150.245. Philosophy of Mind. 3 Credits.**

Our minds are often thought to be exhaustively and intimately known to us. Despite this philosophers deeply disagree about the natures of the mental states and events which make up our minds. And there is equally little agreement as to what makes such states and events count as mental in the first place. This course will investigate the nature of different aspects of mind and their interrelations. Students will explore debates and puzzles about the nature of perception, memory, imagination, dreaming, pain and bodily sensation, emotion, action, volition and those states commonly classed as propositional attitudes: knowledge, belief, desire and intention. This will put us in a position to ask what if anything unifies such phenomena as mental.

Area: Humanities

**AS.150.474. Justice and Health. 3 Credits.**

Course will consider the bearing of theories of justice on health care. Topics will include national health insurance, rationing and cost containment, and what justice requires of researchers in developing countries.

Area: Humanities

**AS.150.476. Philosophy and Cognitive Science. 3 Credits.**

This year’s topic is perception. Questions will include: In what ways might perceptual states be like and unlike pictures? Does what we believe affect what we perceive? Is linguistic comprehension a kind of perception?

Area: Humanities, Social and Behavioral Sciences

**Program in Museums and Society**

**AS.389.201. Introduction to the Museum: Past and Present. 3 Credits.**

This course surveys museums, from their origins to their most contemporary forms, in the context of broader historical, intellectual, and cultural trends including the social movements of the 20th century. Anthropology, art, history, and science museums are considered. Crosslisted with Archaeology, History, History of Art, International Studies and Medicine, Science & Humanities.

Area: Humanities, Social and Behavioral Sciences

**Sociology**

**AS.230.341. Sociology of Health and Illness. 3 Credits.**

This course introduces students to core concepts that define the sociological approach to health, illness and health care. Topics include: health disparities, social context of health and illness, and the Sociology of Medicine.

Area: Social and Behavioral Sciences

**Writing Seminars**

**AS.220.206. Writing about Science I: Daily News Journalism. 3 Credits.**

This course is designed to teach students the skills of daily news reporting, with a focus on covering science news. Students will learn how to turn scientific discoveries into lively and engaging prose for the general public, interview sources, and pitch stories to news organizations. The skills taught are applicable to all areas of journalism, not just science journalism.

Area: Humanities

**AS.220.317. Writing about Science II: Feature Writing Journalism. 3 Credits.**

This course is designed to teach students the skills of long-form narrative journalism, with a focus on covering science news. Skills taught will include how to compose scenes, create three-dimensional characters, create narrative tension, and conduct on-site reporting. Class speakers will include award-winning science journalists from New York to DC, who will share the secrets of their craft. The primary writing assignment will be a 3,000-word feature piece that is pitched, reported, and workshopped throughout the course of the class. "Writing About Science I" is recommended as a prerequisite for this course. If you have not taken this, please contact instructor (dgrimm5@jhu.edu) to enroll.

Area: Humanities

**AS.220.424. Science as Narrative. 3 Credits.**

Class reads the writings of scientists to explore what their words would have meant to them and their readers. Discussion will focus on the shifting scientific/cultural context throughout history. Authors include Aristotle, Copernicus, Galileo, Descartes, Newton, Darwin, Freud, Einstein, Heisenberg, Bohr, Crick and Watson.

Area: Humanities