

Letters and Science (L & S)

Courses

L & S 1 Exploring the Liberal Arts 2 Units

This is a course for entering students, particularly those who are undecided about the major they would like to pursue. It provides an introduction to the intellectual landscape of the College of Letters and Science, revealing the underlying assumptions, goals, and structure of a liberal arts education. Topics include the difference between the College of Letters and Science and the professional schools, the rationale behind the breadth requirement, the approaches and methodologies of each of the divisions in the college, and the benefits of engaging in research as an undergraduate. The ultimate goal of the course is to transform the students into informed participants in their own educational experiences, so that they can make the most of their years at Berkeley.

Hours & Format

Fall and/or spring: 15 weeks - 1.5 hours of lecture and 1 hour of discussion per week

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: Offered for pass/not pass grade only. Final exam not required.

L & S W1 Exploring the Liberal Arts 2 Units

This is a course for entering students, particularly those who are excited to be here but uncertain of where to start their explorations. It provides an introduction to the intellectual landscape of the College of Letters and Science, revealing the underlying assumptions, goals and structure of a liberal arts education. Guest speakers, drawn largely from the faculty and recent graduates of L&S, will shed light on the nature and attractions of their disciplines. The ultimate goal of the course is to transform students into informed participants in their own educational experiences at Berkeley.

Hours & Format

Fall and/or spring: 15 weeks - 2.5 hours of web-based discussion and 1.5 hours of web-based lecture per week

Summer: 8 weeks - 4 hours of web-based discussion and 3 hours of web-based lecture per week

Online: This is an online course.

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: Offered for pass/not pass grade only. Alternative to final exam.

Instructor: Schwartz

L & S 5 Introduction to Entrepreneurship 2 Units

This course is designed for freshmen and sophomores who wish to know about entrepreneurship, its importance to our society, and its role in bringing new ideas to market. Students will understand the entrepreneurial business process and how they might become involved in those processes in their future careers--in whatever direction those careers might lead. This class will explore the structure and framework of entrepreneurial endeavors--both inside and outside the business world. The course will answer questions such as: What is entrepreneurship? What is opportunity recognition and selection? How can you create and define competitive advantage? How can you think about people in the entrepreneurial context? How can you garner support (financial and other) for an entrepreneurial venture? What do you do when nothing works as planned? And, how do you focus on doing right and doing well?

Hours & Format

Fall and/or spring: 15 weeks - 1.5 hours of lecture per week

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: Letter grade. Final exam not required.

Instructor: Walske

L & S C5 Introduction to Entrepreneurship 2 Units

Designed for students who wish to know about entrepreneurship, its importance to our society, and its role in bringing new ideas to market. Students will understand the entrepreneurial business process and how they might become involved in those processes in their future careers--in whatever direction those careers might lead. What is entrepreneurship? What is opportunity recognition and selection? How can you create competitive advantage? How do you focus on doing right and doing well?

Hours & Format

Fall and/or spring: 15 weeks - 2 hours of lecture per week

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: Letter grade. Final exam not required.

Also listed as: UGBA C5

L & S 10 The On the Same Page Course 1 Unit

This is a course for new students (freshmen or transfers) who would like to engage with the On the Same Page book or theme for their year in a more in-depth way than the average student might. They will take full advantage of the On the Same Page events and programming planned for the fall of each year, and will enjoy opportunities to discuss the book or theme with faculty and fellow students.

Hours & Format

Fall and/or spring: 8 weeks - 1 hour of lecture per week

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: Offered for pass/not pass grade only. Final exam not required.

L & S 20C Arts and Literature 3 or 4 Units

This course features significant engagement with arts, literature or language, either through critical study of works of art or through the creation of art. Art enables us to see the familiar world with new, often questioning eyes, and makes distant times and places, characters, and issues come alive in our imagination, which is essential to almost all intellectual endeavor. The Arts and Literature breadth requirement is intended to provide students with knowledge and appreciation of the creative arts so that, for the duration of their lives, engagement with art can be, variously, a wellspring of creativity, a lodestar for critical perspectives, and a touchstone of aesthetic quality--in sum, a continuing source of learning and serious pleasure.

Hours & Format

Fall and/or spring: 15 weeks - 3-4 hours of lecture and 1 hour of discussion per week

Summer:

8 weeks - 5.5-7.5 hours of lecture and 1.5 hours of discussion per week

10 weeks - 4.5-6 hours of lecture and 1.5 hours of discussion per week

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

L & S 20D Arts and Literature 3 or 4 Units

This course features significant engagement with arts, literature or language, either through critical study of works of art or through the creation of art. Art enables us to see the familiar world with new, often questioning eyes, and makes distant times and places, characters, and issues come alive in our imagination, which is essential to almost all intellectual endeavor. The Arts and Literature breadth requirement is intended to provide students with knowledge and appreciation of the creative arts so that, for the duration of their lives, engagement with art can be, variously, a wellspring of creativity, a lodestar for critical perspectives, and a touchstone of aesthetic quality--in sum, a continuing source of learning and serious pleasure.

Hours & Format

Fall and/or spring: 15 weeks - 3-4 hours of lecture and 1 hour of discussion per week

Summer:

8 weeks - 5.5 hours of lecture and 1.5 hours of discussion per week

10 weeks - 4.5-6 hours of lecture and 1.5 hours of discussion per week

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

L & S 22 Sense and Sensibility and Science 3 Units

The approaches to problem solving developed by scientists have proven to be effective, and yet we as individuals, groups, and larger societies do not often seem to be able to take advantage even of rational approaches to problems--let alone the "hyperrationality" offered by science. Rationality by itself does not solve any problems or answer any questions. Its efficaciousness depends on how we combine it with our drives, goals, and desires--and perhaps our less-linear algorithm-based intuitions.

Hours & Format

Fall and/or spring: 15 weeks - 2-3 hours of lecture and 1-2 hours of discussion per week

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Instructors: Campbell, MacCoun, Perlmutter

L & S 23 The Humanities 4 Units

Today the humanities, once considered the jewels of a liberal arts education, find they must justify their very existence. In 1967, Ronald Reagan, then Governor of California, argued against taxpayers "subsidizing intellectual curiosity." By 2015, the Wisconsin governor had reduced his university's mission to "meeting the state's workforce needs." Is this self-styled "commonsensical" thinking valid? Should the humanities try to make themselves more professional or "scientific"? Rather than seeing the humanities as a series of independent disciplines focused on different specific ends, this course argues that the humanities map the many ways that human beings have sought to be human throughout human history.

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: Letter grade. Alternative to final exam.

Instructors: Boyarin, Nylan

L & S 24 Freshman Seminar 1 Unit

The Freshman and Sophomore Seminars program has been designed to provide new students with the opportunity to explore an intellectual topic with a faculty member in a small-seminar setting. Freshman Seminars are offered in all campus departments, and topics vary from department to department and semester to semester.

Rules & Requirements

Repeat rules: Course may be repeated for credit as topic varies. Course may be repeated for credit when topic changes.

Hours & Format**Fall and/or spring:**

5 weeks - 3 hours of seminar per week
 6 weeks - 3 hours of seminar per week
 8 weeks - 2 hours of seminar per week
 10 weeks - 1.5 hours of seminar per week
 15 weeks - 1 hour of seminar per week

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: The grading option will be decided by the instructor when the class is offered. Final exam not required.

L & S C30T Drugs and the Brain 3 Units

The history, chemical nature, botanical origins, and effects on the human brain and behavior of drugs such as stimulants, depressants, psychedelics, analgesics, antidepressants, antipsychotics, steroids, and other psychoactive substances of both natural and synthetic origin. The necessary biological, chemical, and psychological background material for understanding the content of this course will be contained within the course itself.

Rules & Requirements

Credit Restrictions: Students will receive no credit for C62 after taking 62, C100A/Chemistry C130, 102, 104, 110, 130A, 136, C160/Neuroscience C160,
Integrative Biology 132, Letters and Science C30T, or Psychology C19 .

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week

Summer: 8 weeks - 4.5 hours of lecture per week

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: Letter grade. Final exam not required.

Instructor: Presti

Also listed as: MCELLBI C62/PSYCH C19

L & S C30U Americans and the Global Forest 4 Units

This course challenges students to think about how individual and American consumer decisions affect forest ecosystems around the world. A survey course that highlights the consequences of different ways of thinking about the forest as a global ecosystem and as a source of goods like trees, water, wildlife, food, jobs, and services. The scientific tools and concepts that have guided management of the forest for the last 100 years, and the laws, rules, and informal institutions that have shaped use of the forests, are analyzed.

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Also listed as: ESPM C11

L & S C30V Environmental Issues 4 Units

Relationship between human society and the natural environment; case studies of ecosystem maintenance and disruption. Issues of economic development, population, energy, resources, technology, and alternative systems.

Rules & Requirements

Credit Restrictions: Students will receive no credit for C10 after taking 10.

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture and 1.5 hours of discussion per week

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Instructor: Welter

Also listed as: ESPM C10

L & S C30X Big Ideas in Cell Biology 3 Units

An introduction for students who do not intend to major in biology but who wish to satisfy their breadth requirement in Biological Sciences. Some major concepts of modern biology, ranging from the role of DNA and the way cells communicate, to interactions of cells and creatures with their environment, will be discussed without jargon and with attention to their relevance in contemporary life and culture.

Hours & Format

Fall and/or spring: 15 weeks - 2 hours of lecture and 1 hour of discussion per week

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Instructor: Wilt

Also listed as: MCELLBI C31

L & S C30Y Biology for Voters 3 Units

This is a Discovery Course for non-Biology majors designed to introduce lower-division college students to biology through the lens of the contemporary problems facing people, the planet and the species of the planet. Modern genetic contributions will be presented on such issues as genetic engineering of plants and animals, the emergence of new pathogens, the role of genetic variation among individuals, and the extent to which DNA is and isn't destiny. Each week will close with the presentation and discussion of a defining biological challenge facing the world.

Objectives Outcomes

Student Learning Outcomes: The learning objectives will be, at one end, to understand what an experiment is, how is it controlled and what does one need to know about an experiment to be able to rely upon any conclusion. That is the fundamental issue in all science, and is frequently overlooked in many media accounts of science. A second objective is to learn enough of the language of biology to be able to ask the kind of informed questions that we would want all elected representatives to pay attention to. A third objective is for students to cultivate confidence that through non-specialized information sources they can become informed consumers of contemporary scientific thought, and to develop those habits of intellect to think about evidence in a scientific manner. A fourth objective is for students to enjoy the abundance of high quality books, articles and multimedia that will enable a lifetime of discovery outside the structure of a college course.

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Instructors: Rine, Urnov

Also listed as: MCELLBI C44

L & S 39A Freshman and Sophomore Seminar 1.5 - 4 Units

Freshman and sophomore seminars offer lower division students the opportunity to explore an intellectual topic with a faculty member and a group of peers in a small-seminar setting. These seminars are offered in all campus departments; topics vary from department to department and from semester to semester.

Hours & Format**Fall and/or spring:**

5 weeks - 3-12 hours of seminar per week
6 weeks - 2.5-10 hours of seminar per week
8 weeks - 2-7.5 hours of seminar per week
10 weeks - 1.5-6 hours of seminar per week
15 weeks - 1-4 hours of seminar per week

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: The grading option will be decided by the instructor when the class is offered. Final exam not required.

L & S 39B Freshman and Sophomore Seminar 1.5 - 4 Units

Freshman and sophomore seminars offer lower division students the opportunity to explore an intellectual topic with a faculty member and a group of peers in a small-seminar setting. These seminars are offered in all campus departments; topics vary from department to department and from semester to semester.

Hours & Format**Fall and/or spring:**

5 weeks - 3-12 hours of seminar per week
6 weeks - 2.5-10 hours of seminar per week
8 weeks - 2-7.5 hours of seminar per week
10 weeks - 1.5-6 hours of seminar per week
15 weeks - 1-4 hours of seminar per week

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: The grading option will be decided by the instructor when the class is offered. Final exam not required.

L & S 39C Freshman and Sophomore Seminar 1.5 - 4 Units

Freshman and sophomore seminars offer lower division students the opportunity to explore an intellectual topic with a faculty member and a group of peers in a small-seminar setting. These seminars are offered in all campus departments; topics vary from department to department and from semester to semester.

Hours & Format**Fall and/or spring:**

5 weeks - 3-12 hours of seminar per week
6 weeks - 2.5-10 hours of seminar per week
8 weeks - 2-7.5 hours of seminar per week
10 weeks - 1.5-6 hours of seminar per week
15 weeks - 1-4 hours of seminar per week

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: The grading option will be decided by the instructor when the class is offered. Final exam not required.

L & S 39D Freshman and Sophomore Seminar 1.5 - 4 Units

Freshman and sophomore seminars offer lower division students the opportunity to explore an intellectual topic with a faculty member and a group of peers in a small-seminar setting. These seminars are offered in all campus departments; topics vary from department to department and from semester to semester.

Hours & Format**Fall and/or spring:**

5 weeks - 3-12 hours of seminar per week
6 weeks - 2.5-10 hours of seminar per week
8 weeks - 2-7.5 hours of seminar per week
10 weeks - 1.5-6 hours of seminar per week
15 weeks - 1-4 hours of seminar per week

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: The grading option will be decided by the instructor when the class is offered. Final exam not required.

L & S 39E Freshman and Sophomore Seminar 1.5 - 4 Units

Freshman and sophomore seminars offer lower division students the opportunity to explore an intellectual topic with a faculty member and a group of peers in a small-seminar setting. These seminars are offered in all campus departments; topics vary from department to department and from semester to semester.

Hours & Format**Fall and/or spring:**

5 weeks - 3-12 hours of seminar per week
6 weeks - 2.5-10 hours of seminar per week
8 weeks - 2-7.5 hours of seminar per week
10 weeks - 1.5-6 hours of seminar per week
15 weeks - 1-4 hours of seminar per week

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: The grading option will be decided by the instructor when the class is offered. Final exam not required.

L & S 39F Freshman and Sophomore Seminar 1.5 - 4 Units

Freshman and sophomore seminars offer lower division students the opportunity to explore an intellectual topic with a faculty member and a group of peers in a small-seminar setting. These seminars are offered in all campus departments; topics vary from department to department and from semester to semester.

Hours & Format**Fall and/or spring:**

5 weeks - 3-12 hours of seminar per week
6 weeks - 2.5-10 hours of seminar per week
8 weeks - 2-7.5 hours of seminar per week
10 weeks - 1.5-6 hours of seminar per week
15 weeks - 1-4 hours of seminar per week

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: The grading option will be decided by the instructor when the class is offered. Final exam not required.

L & S 39G Freshman and Sophomore Seminar 1.5 - 4 Units

Freshman and sophomore seminars offer lower division students the opportunity to explore an intellectual topic with a faculty member and a group of peers in a small-seminar setting. These seminars are offered in all campus departments; topics vary from department to department and from semester to semester.

Hours & Format**Fall and/or spring:**

5 weeks - 3-12 hours of seminar per week
6 weeks - 2.5-10 hours of seminar per week
8 weeks - 2-7.5 hours of seminar per week
10 weeks - 1.5-6 hours of seminar per week
15 weeks - 1-4 hours of seminar per week

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: The grading option will be decided by the instructor when the class is offered. Final exam not required.

L & S 39H Freshman and Sophomore Seminar 1.5 - 4 Units

Freshman and sophomore seminars offer lower division students the opportunity to explore an intellectual topic with a faculty member and a group of peers in a small-seminar setting. These seminars are offered in all campus departments; topics vary from department to department and from semester to semester.

Hours & Format**Fall and/or spring:**

5 weeks - 3-12 hours of seminar per week
6 weeks - 2.5-10 hours of seminar per week
8 weeks - 2-7.5 hours of seminar per week
10 weeks - 1.5-6 hours of seminar per week
15 weeks - 1-4 hours of seminar per week

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: The grading option will be decided by the instructor when the class is offered. Final exam not required.

L & S 39I Freshman and Sophomore Seminar 1.5 - 4 Units

Freshman and sophomore seminars offer lower division students the opportunity to explore an intellectual topic with a faculty member and a group of peers in a small-seminar setting. These seminars are offered in all campus departments; topics vary from department to department and from semester to semester.

Hours & Format**Fall and/or spring:**

5 weeks - 3-12 hours of seminar per week
6 weeks - 2.5-10 hours of seminar per week
8 weeks - 2-7.5 hours of seminar per week
10 weeks - 1.5-6 hours of seminar per week
15 weeks - 1-4 hours of seminar per week

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: The grading option will be decided by the instructor when the class is offered. Final exam not required.

L & S 39J Freshman and Sophomore Seminar 1.5 - 4 Units

Freshman and sophomore seminars offer lower division students the opportunity to explore an intellectual topic with a faculty member and a group of peers in a small-seminar setting. These seminars are offered in all campus departments; topics vary from department to department and from semester to semester.

Hours & Format**Fall and/or spring:**

5 weeks - 3-12 hours of seminar per week
 6 weeks - 2.5-10 hours of seminar per week
 8 weeks - 2-7.5 hours of seminar per week
 10 weeks - 1.5-6 hours of seminar per week
 15 weeks - 1-4 hours of seminar per week

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: The grading option will be decided by the instructor when the class is offered. Final exam not required.

L & S 39K Freshman and Sophomore Seminar 1.5 - 4 Units

Freshman and sophomore seminars offer lower division students the opportunity to explore an intellectual topic with a faculty member and a group of peers in a small-seminar setting. These seminars are offered in all campus departments; topics vary from department to department and from semester to semester.

Hours & Format**Fall and/or spring:**

5 weeks - 3-12 hours of seminar per week
 6 weeks - 2.5-10 hours of seminar per week
 8 weeks - 2-7.5 hours of seminar per week
 10 weeks - 1.5-6 hours of seminar per week
 15 weeks - 1-4 hours of seminar per week

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: The grading option will be decided by the instructor when the class is offered. Final exam not required.

L & S 39L Freshman and Sophomore Seminar 1.5 - 4 Units

Freshman and sophomore seminars offer lower division students the opportunity to explore an intellectual topic with a faculty member and a group of peers in a small-seminar setting. These seminars are offered in all campus departments; topics vary from department to department and from semester to semester.

Hours & Format**Fall and/or spring:**

5 weeks - 3-12 hours of seminar per week
 6 weeks - 2.5-10 hours of seminar per week
 8 weeks - 2-7.5 hours of seminar per week
 10 weeks - 1.5-6 hours of seminar per week
 15 weeks - 1-4 hours of seminar per week

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: The grading option will be decided by the instructor when the class is offered. Final exam not required.

L & S 39M Freshman and Sophomore Seminar 1.5 - 4 Units

Freshman and sophomore seminars offer lower division students the opportunity to explore an intellectual topic with a faculty member and a group of peers in a small-seminar setting. These seminars are offered in all campus departments; topics vary from department to department and from semester to semester.

Hours & Format**Fall and/or spring:**

5 weeks - 3-12 hours of seminar per week
 6 weeks - 2.5-10 hours of seminar per week
 8 weeks - 2-7.5 hours of seminar per week
 10 weeks - 1.5-6 hours of seminar per week
 15 weeks - 1-4 hours of seminar per week

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: The grading option will be decided by the instructor when the class is offered. Final exam not required.

L & S 39N Freshman and Sophomore Seminar 1.5 - 4 Units

Freshman and sophomore seminars offer lower division students the opportunity to explore an intellectual topic with a faculty member and a group of peers in a small-seminar setting. These seminars are offered in all campus departments; topics vary from department to department and from semester to semester.

Hours & Format**Fall and/or spring:**

5 weeks - 3-12 hours of seminar per week
 6 weeks - 2.5-10 hours of seminar per week
 8 weeks - 2-7.5 hours of seminar per week
 10 weeks - 1.5-6 hours of seminar per week
 15 weeks - 1-4 hours of seminar per week

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: The grading option will be decided by the instructor when the class is offered. Final exam not required.

L & S 39O Freshman and Sophomore Seminar 1.5 - 4 Units

Freshman and sophomore seminars offer lower division students the opportunity to explore an intellectual topic with a faculty member and a group of peers in a small-seminar setting. These seminars are offered in all campus departments; topics vary from department to department and from semester to semester.

Hours & Format**Fall and/or spring:**

5 weeks - 3-12 hours of seminar per week
 6 weeks - 2.5-10 hours of seminar per week
 8 weeks - 2-7.5 hours of seminar per week
 10 weeks - 1.5-6 hours of seminar per week
 15 weeks - 1-4 hours of seminar per week

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: The grading option will be decided by the instructor when the class is offered. Final exam not required.

L & S 39P Freshman and Sophomore Seminar 1.5 - 4 Units

Freshman and sophomore seminars offer lower division students the opportunity to explore an intellectual topic with a faculty member and a group of peers in a small-seminar setting. These seminars are offered in all campus departments; topics vary from department to department and from semester to semester.

Hours & Format**Fall and/or spring:**

5 weeks - 3-12 hours of seminar per week
 6 weeks - 2.5-10 hours of seminar per week
 8 weeks - 2-7.5 hours of seminar per week
 10 weeks - 1.5-6 hours of seminar per week
 15 weeks - 1-4 hours of seminar per week

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: The grading option will be decided by the instructor when the class is offered. Final exam not required.

L & S 39Q Freshman and Sophomore Seminar 1.5 - 4 Units

Freshman and sophomore seminars offer lower division students the opportunity to explore an intellectual topic with a faculty member and a group of peers in a small-seminar setting. These seminars are offered in all campus departments; topics vary from department to department and from semester to semester.

Hours & Format**Fall and/or spring:**

5 weeks - 3-12 hours of seminar per week
 6 weeks - 2.5-10 hours of seminar per week
 8 weeks - 2-7.5 hours of seminar per week
 10 weeks - 1.5-6 hours of seminar per week
 15 weeks - 1-4 hours of seminar per week

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: The grading option will be decided by the instructor when the class is offered. Final exam not required.

L & S 39R Freshman and Sophomore Seminar 1.5 - 4 Units

Freshman and sophomore seminars offer lower division students the opportunity to explore an intellectual topic with a faculty member and a group of peers in a small-seminar setting. These seminars are offered in all campus departments; topics vary from department to department and from semester to semester.

Hours & Format**Fall and/or spring:**

5 weeks - 3-12 hours of seminar per week
 6 weeks - 2.5-10 hours of seminar per week
 8 weeks - 2-7.5 hours of seminar per week
 10 weeks - 1.5-6 hours of seminar per week
 15 weeks - 1-4 hours of seminar per week

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: The grading option will be decided by the instructor when the class is offered. Final exam not required.

L & S 39S Freshman and Sophomore Seminar 1.5 - 4 Units

Freshman and sophomore seminars offer lower division students the opportunity to explore an intellectual topic with a faculty member and a group of peers in a small-seminar setting. These seminars are offered in all campus departments; topics vary from department to department and from semester to semester.

Hours & Format**Fall and/or spring:**

5 weeks - 3-12 hours of seminar per week
 6 weeks - 2.5-10 hours of seminar per week
 8 weeks - 2-7.5 hours of seminar per week
 10 weeks - 1.5-6 hours of seminar per week
 15 weeks - 1-4 hours of seminar per week

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: The grading option will be decided by the instructor when the class is offered. Final exam not required.

L & S 39T Freshman and Sophomore Seminar 1.5 - 4 Units

Freshman and sophomore seminars offer lower division students the opportunity to explore an intellectual topic with a faculty member and a group of peers in a small-seminar setting. These seminars are offered in all campus departments; topics vary from department to department and from semester to semester.

Hours & Format**Fall and/or spring:**

5 weeks - 3-12 hours of seminar per week
 6 weeks - 2.5-10 hours of seminar per week
 8 weeks - 2-7.5 hours of seminar per week
 10 weeks - 1.5-6 hours of seminar per week
 15 weeks - 1-4 hours of seminar per week

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: The grading option will be decided by the instructor when the class is offered. Final exam not required.

L & S 39U Freshman and Sophomore Seminar 1.5 - 4 Units

Freshman and sophomore seminars offer lower division students the opportunity to explore an intellectual topic with a faculty member and a group of peers in a small-seminar setting. These seminars are offered in all campus departments; topics vary from department to department and from semester to semester.

Hours & Format**Fall and/or spring:**

5 weeks - 3-12 hours of seminar per week
 6 weeks - 2.5-10 hours of seminar per week
 8 weeks - 2-7.5 hours of seminar per week
 10 weeks - 1.5-6 hours of seminar per week
 15 weeks - 1-4 hours of seminar per week

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: The grading option will be decided by the instructor when the class is offered. Final exam not required.

L & S 39V Freshman and Sophomore Seminar 1.5 - 4 Units

Freshman and sophomore seminars offer lower division students the opportunity to explore an intellectual topic with a faculty member and a group of peers in a small-seminar setting. These seminars are offered in all campus departments; topics vary from department to department and from semester to semester.

Hours & Format**Fall and/or spring:**

5 weeks - 3-12 hours of seminar per week
 6 weeks - 2.5-10 hours of seminar per week
 8 weeks - 2-7.5 hours of seminar per week
 10 weeks - 1.5-6 hours of seminar per week
 15 weeks - 1-4 hours of seminar per week

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: The grading option will be decided by the instructor when the class is offered. Final exam not required.

L & S 39W Freshman and Sophomore Seminar 1.5 - 4 Units

Freshman and sophomore seminars offer lower division students the opportunity to explore an intellectual topic with a faculty member and a group of peers in a small-seminar setting. These seminars are offered in all campus departments; topics vary from department to department and from semester to semester.

Hours & Format**Fall and/or spring:**

5 weeks - 3-12 hours of seminar per week
 6 weeks - 2.5-10 hours of seminar per week
 8 weeks - 2-7.5 hours of seminar per week
 10 weeks - 1.5-6 hours of seminar per week
 15 weeks - 1-4 hours of seminar per week

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: The grading option will be decided by the instructor when the class is offered. Final exam not required.

L & S 39X Freshman and Sophomore Seminar 1.5 - 4 Units

Freshman and sophomore seminars offer lower division students the opportunity to explore an intellectual topic with a faculty member and a group of peers in a small-seminar setting. These seminars are offered in all campus departments; topics vary from department to department and from semester to semester.

Hours & Format**Fall and/or spring:**

5 weeks - 3-12 hours of seminar per week
 6 weeks - 2.5-10 hours of seminar per week
 8 weeks - 2-7.5 hours of seminar per week
 10 weeks - 1.5-6 hours of seminar per week
 15 weeks - 1-4 hours of seminar per week

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: The grading option will be decided by the instructor when the class is offered. Final exam not required.

L & S 39Y Freshman and Sophomore Seminar 1.5 - 4 Units

Freshman and sophomore seminars offer lower division students the opportunity to explore an intellectual topic with a faculty member and a group of peers in a small-seminar setting. These seminars are offered in all campus departments; topics vary from department to department and from semester to semester.

Hours & Format**Fall and/or spring:**

5 weeks - 3-12 hours of seminar per week
 6 weeks - 2.5-10 hours of seminar per week
 8 weeks - 2-7.5 hours of seminar per week
 10 weeks - 1.5-6 hours of seminar per week
 15 weeks - 1-4 hours of seminar per week

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: The grading option will be decided by the instructor when the class is offered. Final exam not required.

L & S 39Z Freshman and Sophomore Seminar 1.5 - 4 Units

Freshman and sophomore seminars offer lower division students the opportunity to explore an intellectual topic with a faculty member and a group of peers in a small-seminar setting. These seminars are offered in all campus departments; topics vary from department to department and from semester to semester.

Hours & Format**Fall and/or spring:**

5 weeks - 3-12 hours of seminar per week
 6 weeks - 2.5-10 hours of seminar per week
 8 weeks - 2-7.5 hours of seminar per week
 10 weeks - 1.5-6 hours of seminar per week
 15 weeks - 1-4 hours of seminar per week

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: The grading option will be decided by the instructor when the class is offered. Final exam not required.

L & S 40C Historical Studies 3 or 4 Units

Each lower-division course in this series deals primarily with the human events, institutions and activities of the past. Historical Studies are particularly important because, to paraphrase the philosopher George Santayana, those who fail to learn the lessons of history are doomed to repeat its mistakes. The study of history provides us with perspective on the human condition and with an appreciation of the origins and evolution of the numerous cultures and social orders that have populated the earth. Whether students study history to understand how our world evolved from the past or to focus on the distinctions between the present and previous eras, they will come away with a richer understanding of and appreciation for human experience.

Hours & Format

Fall and/or spring: 15 weeks - 3-4 hours of lecture and 1 hour of discussion per week

Summer:

8 weeks - 5.5-7.5 hours of lecture and 1.5 hours of discussion per week
10 weeks - 4.5-6 hours of lecture and 1.5 hours of discussion per week

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

L & S C40T Introduction to American Studies: Hollywood: the Place, the Industry, the Fantasy 4 Units

This course will introduce students to the interdisciplinary field of American Studies, taking the "Hollywood Dream Factory" as the central theme. Focusing on both parts of that phrase, the course will proceed along a double path. We will examine the historical and geographical development of the motion picture industry from the rise of the studio system to the "new" entertainment economy of the 1980's and we will examine ways Hollywood is represented in literature and film.

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Instructor: Moran

Also listed as: AMERSTD C10

L & S C46 Climate Change and the Future of California 4 Units

Introduction to California geography, environment, and society, past and future climates, and the potential impacts of 21st-century climate change on ecosystems and human well-being. Topics include fundamentals of climate science and the carbon cycle; relationships between human and natural systems, including water supplies, agriculture, public health, and biodiversity; and the science, law, and politics of possible solutions that can reduce the magnitude and impacts of climate change.

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Instructors: Ackerly, Sedlak, Silver, Weissman

Also listed as: ESPM C46

L & S C60T What is Beauty? 4 Units

What or who decides whether something is beautiful or not? What purpose do beauty and art serve? Where do originality, genius, and inspiration come from? What do art and beauty have to do with freedom and human progress? We will examine primarily western European and North American approaches to beauty as presented in works of philosophy, literary theory, and theories of art and aesthetics, exploring key theoretical questions as they evolve among several intellectual arenas over many centuries.

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Instructor: Feldman

Also listed as: GERMAN C75

L & S C60U Revolutionary Thinking: Marx, Nietzsche, Freud 4 Units

We will explore the ways in which Marx, Nietzsche, and Freud--three of the most important thinkers in modern Western thought--can be read as responding to the Enlightenment and its notions of reason and progress. We will consider how each remakes a scientific understanding of truth, knowledge, and subjectivity, such that rationality, logic, and the powers of human cognition are shown to be distorted, limited, and subject to forces outside our individual control. All lectures and readings in English.

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Instructor: Feldman

Also listed as: GERMAN C25

L & S 70A Physical Science 2 - 4 Units

Physical scientists seek to understand the universe, from its microscopic substructure to its largest structures, from our own earth to the edge of the universe and the beginning of time. Students fulfilling Physical Science breadth in the College of Letters & Science may be motivated by the pure pleasure of penetrating the mysteries of the universe, or by more practical considerations such as a desire to take an intelligent stance on such topics as greenhouse gases and space exploration. Whether students opt for the practical or the theoretical or a combination of both, students choosing a lower-division course in this series will learn to formulate problems clearly and think quantitatively, critically, and abstractly.

Hours & Format

Fall and/or spring: 15 weeks - 2-4 hours of lecture and 1 hour of discussion per week

Summer:

8 weeks - 5.5-7.5 hours of lecture and 1.5 hours of discussion per week
10 weeks - 4.5-6 hours of lecture and 1.5 hours of discussion per week

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

L & S 70B Physical Science 2 - 4 Units

Physical scientists seek to understand the universe, from its microscopic substructure to its largest structures, from our own earth to the edge of the universe and the beginning of time. Students fulfilling Physical Science breadth in the College of Letters & Science may be motivated by the pure pleasure of penetrating the mysteries of the universe, or by more practical considerations such as a desire to take an intelligent stance on such topics as greenhouse gases and space exploration. Whether students opt for the practical or the theoretical or a combination of both, students choosing a lower-division course in this series will learn to formulate problems clearly and think quantitatively, critically, and abstractly.

Hours & Format

Fall and/or spring: 15 weeks - 2-4 hours of lecture and 1 hour of discussion per week

Summer:

8 weeks - 5.5-7.5 hours of lecture and 1.5 hours of discussion per week
10 weeks - 4.5-6 hours of lecture and 1.5 hours of discussion per week

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

L & S C70T The Planets 3 Units

A tour of the mysteries and inner workings of our solar system. What are planets made of? Why do they orbit the sun the way they do? How do planets form, and what are they made of? Why do some bizarre moons have oceans, volcanoes, and ice floes? What makes the Earth hospitable for life? Is the Earth a common type of planet or some cosmic quirk? This course will introduce basic physics, chemistry, and math to understand planets, moons, rings, comets, asteroids, atmospheres, and oceans. Understanding other worlds will help us save our own planet and help us understand our place in the universe.

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Summer: 6 weeks - 7.5 hours of lecture per week

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Also listed as: ASTRON C12/EPS C12

L & S C70U Introduction to General Astronomy 4 Units

A description of modern astronomy with emphasis on the structure and evolution of stars, galaxies, and the Universe. Additional topics optionally discussed include quasars, pulsars, black holes, and extraterrestrial communication, etc. Individual instructor's synopses available from the department.

Rules & Requirements

Credit Restrictions: Students will receive no credit for 10 after taking 7A or 7B.

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week

Summer:

6 weeks - 8 hours of lecture and 2.5 hours of discussion per week
8 weeks - 6 hours of lecture and 2 hours of discussion per week

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Instructor: Filippenko

Also listed as: ASTRON C10

L & S C70V Descriptive Introduction to Physics 3 Units

The most interesting and important topics in physics, stressing conceptual understanding rather than math, with applications to current events. Topics covered may vary and may include energy and conservation, radioactivity, nuclear physics, the Theory of Relativity, lasers, explosions, earthquakes, superconductors, and quantum physics.

Rules & Requirements

Prerequisites: Open to students with or without high school physics

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week

Summer: 8 weeks - 6 hours of lecture and 2 hours of discussion per week

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Also listed as: PHYSICS C10

L & S C70W Physics and Music 3 Units

What can we learn about the nature of reality and the ways that we humans have invented to discover how the world works? An exploration of these questions through the physical principles encountered in the study of music. The applicable laws of mechanics, fundamentals of sound, harmonic content, principles of sound production in musical instruments, musical scales. Numerous illustrative lecture demonstrations will be given. Only the basics of high school algebra and geometry will be used.

Rules & Requirements

Prerequisites: No previous courses in Physics are assumed, although Physics 10 is recommended

Credit Restrictions: Students will receive no credit for Physics C21/ Letters and Science C70W after completing Physics 21. A deficient grade in Physics 21 may be removed by taking Physics C21/Letters and Science C70W.

Hours & Format

Fall and/or spring: 15 weeks - 2 hours of lecture and 1 hour of discussion per week

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Also listed as: PHYSICS C21

L & S C70X Big History -- Cosmos, Earth, Life, and Humanity 4 Units

This course explores all four major regimes of history -- cosmic history, Earth history, life history, and human history. Bringing together these normally unrelated topics, it seeks to understand the character of history by examining longterm trends and critical chance events, by looking for common causes underlying historical change in all four regimes, and by identifying the novelities that have made each regime unique. It offers a broad perspective for students interested in any one of the historical disciplines, helping them cross the barriers between fields of historical study.

Rules & Requirements

Prerequisites: Sophomore standing, except for freshmen who have previously taken 50

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: Offered for pass/not pass grade only. Final exam required.

Instructor: Alvarez

Also listed as: EPS C51

L & S C70Y Earthquakes in Your Backyard 3 Units

Introduction to earthquakes, their causes and effects. General discussion of basic principles and methods of seismology and geological tectonics, distribution of earthquakes in space and time, effects of earthquakes, and earthquake hazard and risk, with particular emphasis on the situation in California.

Hours & Format

Fall and/or spring: 15 weeks - 2 hours of lecture per week

Summer: 6 weeks - 5 hours of lecture per week

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Also listed as: EPS C20

L & S C76 Beauty and the Beholder: Approaching Art at the Berkeley Art Museum 4 Units

This seminar-style course will take up a range of questions related to art works, aesthetic theory, the politics of art, and the relationship between artistic form and meaningful content by way of examinations of specific works at the UC Berkeley Art Museum and Pacific Film Archive (BAM/PFA). Students will see how experts from several different disciplines approach works of art: What questions do scholars bring to an art work? What is a formal analysis vs. a critical interpretation of an art work? How do curators approach art? Are we supposed to 'learn from' an art work or 'experience' it or have some particular 'relationship' to it? Is art a matter of conveying feeling, a message, or an encounter with beauty?

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of seminar per week

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Instructor: Feldman

Also listed as: GERMAN C76

L & S C101 Edible Education: The Rise and Future of the Food Movement 2 Units

As a subject, food is multi-disciplinary, drawing on everything from economics and agronomy to sociology, anthropology, and the arts. Each week experts on organic agriculture, school lunch reform, food safety, animal welfare, hunger and food security, farm bill reform, farm-to-school efforts, urban agriculture, food sovereignty, local food economies, etc. will lecture on what their areas of expertise have to offer the food movement to help it define and achieve its goals.

Hours & Format

Fall and/or spring: 15 weeks - 1.5 hours of lecture per week

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: Offered for pass/not pass grade only. Final exam not required.

Instructors: Henderson, Pollan

Also listed as: NAT RES C101

L & S C103 Edible Education: Telling Stories About Food and Agriculture 2 Units

As the costs of our industrialized food system become impossible to ignore, a national debate over the future of food and farming has begun. Telling stories about where food comes from, how it is produced (and might be produced differently) plays a critical role in bringing attention to the issues and shifting politics. Each week a prominent figure in this debate explores what can be done to make the food system healthier more equitable, more sustainable, and the role of storytelling in the process.

Hours & Format

Fall and/or spring: 15 weeks - 1.5 hours of lecture per week

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: Offered for pass/not pass grade only. Final exam not required.

Instructor: Pollan

Also listed as: JOURN C103

L & S 105 Arts Entrepreneurship 3 Units

This course provides students interested in the arts and/or business with an opportunity to develop an idea for an arts organization and turn it into a functioning, sustainable enterprise. Building on each student's own connection to the arts, the course teaches how to invent an arts organization, define its mission, locate the organization within a community, develop its offerings via products, services, and public programs, and manage the organization's numerous operational features.

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: Letter grade. Final exam not required.

Instructor: R. Andrews

L & S 110 The World According to Berkeley 1 Unit

Exploration of various topics from the multitude of disciplines taught at UC Berkeley. Weekly guest lectures by prominent members of the UC Berkeley academic community. Topics will include groundbreaking research from the past, present, and future; UC Berkeley's unique contributions to society; and topics from speakers' areas of expertise. Learn about many of the remarkable fields of study UC Berkeley has to offer.

Hours & Format

Fall and/or spring: 15 weeks - 1 hour of lecture per week

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: Offered for pass/not pass grade only. Final exam not required.

Instructors: Presti, Stovall

L & S 120B Arts and Literature 3 or 4 Units

This upper division course features significant engagement with arts, literature or language, either through critical study of works of art or through the creation of art. Art enables us to see the familiar world with new, often questioning eyes, and makes distant times and places, characters, and issues come alive in our imagination, which is essential to almost all intellectual endeavor. The Arts and Literature breadth requirement is intended to provide students with knowledge and appreciation of the creative arts so that, for the duration of their lives, engagement with art can be, variously, a wellspring of creativity, a lodestar for critical perspectives, and a touchstone of aesthetic quality--in sum, a continuing source of learning and serious pleasure.

Hours & Format

Fall and/or spring: 15 weeks - 3-4 hours of lecture and 1 hour of discussion per week

Summer:

8 weeks - 5.5-7.5 hours of lecture and 1.5 hours of discussion per week

10 weeks - 4.5-6 hours of lecture and 1.5 hours of discussion per week

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

L & S 120C Arts and Literature 3 or 4 Units

This upper division course features significant engagement with arts, literature or language, either through critical study of works of art or through the creation of art. Art enables us to see the familiar world with new, often questioning eyes, and makes distant times and places, characters, and issues come alive in our imagination, which is essential to almost all intellectual endeavor. The Arts and Literature breadth requirement is intended to provide students with knowledge and appreciation of the creative arts so that, for the duration of their lives, engagement with art can be, variously, a wellspring of creativity, a lodestar for critical perspectives, and a touchstone of aesthetic quality--in sum, a continuing source of learning and serious pleasure.

Hours & Format

Fall and/or spring: 15 weeks - 3-4 hours of lecture and 1 hour of discussion per week

Summer:

8 weeks - 5.5-7.5 hours of lecture and 1.5 hours of discussion per week

10 weeks - 4.5-6 hours of lecture and 1.5 hours of discussion per week

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

L & S 121 Origins in Science and Religion 4 Units

This course explores the concepts of origins in science and religion and their cultural contexts and entanglements, from antiquity to the present. Guiding questions include these: What are origins, and why do we want to know about them? How does this desire manifest itself in different ways of constructing and analyzing knowledge? What sorts of intellectual processes, standards, and tests can be applied to different concepts of origins? What happens when different notions of origins clash?

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Instructors: Hendel, Padian

L & S 122 Time 4 Units

Augustine said, famously, that he always thought he understood what time was until he started thinking about it. That was when he realized he had no idea. This course will address various aspects of the nature of time, including the way we experience it, the way it organizes our everyday world, and the way it stands if it does at the foundation of the physical universe. The course will be devoted both to understanding, and to understanding the relations among, these three aspects of temporality.

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: Letter grade. Final exam not required.

Instructors: Bousso, Dreyfus

L & S 124 Consciousness: Buddhist and Neuroscientific Perspectives 3 Units

Twenty-five years ago the Dalai Lama suggested that a dialogue between Buddhist practitioners and Western scientists interested in the nature of consciousness and its relationship to the world might lead to new ideas and be of benefit to both communities. While science and religion are not generally considered to be natural collaborators, the dialogue that ensued quickly gained momentum and catalyzed new strands of research, most notably in the area of the neuroscience of meditation and emotion. We will continue this dialogue, first by laying the necessary groundwork in our respective fields, and then by exploring areas of convergence and divergence around certain themes.

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Instructors: Presti, Sharf

L & S 125 Time 4 Units

This Big Ideas course will challenge students to develop an interdisciplinary understanding of the concept and manifestations of time, through the lenses of physics, cosmology, geology, psychology and human perception, and big history. Topics will include the following: What is time? How do we organize time? Time in the cosmos. Time in Earth history. Time in life history. Time in human history.

Rules & Requirements

Credit Restrictions: Students who have taken Letters and Science 122 will receive two units for Letters and Science 125, and vice versa.

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Instructors: Bousso, Alvarez, Richards

L & S C138 Art and Activism 4 Units

This course explores the intersections between aesthetic practice and social change. Students will investigate—in both theory and practice—the capacity of art making to cultivate transformation of themselves, their relationships, their practices, their institutions, and the larger economic and socio-political structures in which they function, locally and globally. Focusing on historical and contemporary artists and political issues, we ask: 1) How is art impacted by social change? 2) How has art been used toward social change? and 3) How can we, as course participants, use art to bring about social change?

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of seminar per week

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: Letter grade. Alternative to final exam.

Instructors: Lucas, Roberts

Also listed as: MUSIC C138

L & S 140C Historical Studies 3 or 4 Units

Each upper-division course in this series deals primarily with the human events, institutions and activities of the past. Historical Studies are particularly important because, to paraphrase the philosopher George Santayana, those who fail to learn the lessons of history are doomed to repeat its mistakes. The study of history provides us with perspective on the human condition and with an appreciation of the origins and evolution of the numerous cultures and social orders that have populated the earth. Whether students study history to understand how our world evolved from the past or to focus on the distinctions between the present and previous eras, they will come away with a richer understanding of and appreciation for human experience.

Hours & Format

Fall and/or spring: 15 weeks - 3-4 hours of lecture and 1 hour of discussion per week

Summer:

8 weeks - 5.5-7.5 hours of lecture and 1.5 hours of discussion per week

10 weeks - 4.5-6 hours of lecture and 1.5 hours of discussion per week

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

L & S C140U The Archaeology of Health and Disease 4 Units

This course explores how archaeologists and bioarchaeologists study human families' and communities' conceptualizations and experiences of health and health care cross-culturally and through time. Students will be exposed to case studies drawing upon skeletal and material cultural evidence.

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of laboratory per week

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Also listed as: ANTHRO C129F

L & S C140V The History and Practice of Human Rights 4 Units

A required class for students in the human rights minor (but open to others), this course examines the development of human rights. More than a history of origins, it explores the relationships between human rights and other crucial themes in the history of the modern era. As a history of international trends and an examination of specific practices, it will ask students to make comparisons across space and time and to reflect upon the evolution of human rights in both thought and action.

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Instructor: Sargent

Also listed as: HISTORY C187

L & S 140D Historical Studies 3 or 4 Units

Each upper-division course in this series deals primarily with the human events, institutions and activities of the past. Historical Studies are particularly important because, to paraphrase the philosopher George Santayana, those who fail to learn the lessons of history are doomed to repeat its mistakes. The study of history provides us with perspective on the human condition and with an appreciation of the origins and evolution of the numerous cultures and social orders that have populated the earth. Whether students study history to understand how our world evolved from the past or to focus on the distinctions between the present and previous eras, they will come away with a richer understanding of and appreciation for human experience.

Hours & Format

Fall and/or spring: 15 weeks - 3-4 hours of lecture and 1 hour of discussion per week

Summer:

8 weeks - 5.5 hours of lecture and 1.5 hours of discussion per week

10 weeks - 4.5-6 hours of lecture and 1.5 hours of discussion per week

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

L & S 150A International Studies 3 or 4 Units

Each upper-division course in this series involves the study of the contemporary politics, culture, arts or socio-economic structure of at least one country other than the United States. International Studies courses sensitize students to the immense diversity of cultures and social orders in the world today. As connections and communication between nations become more frequent, it is important that students of the College of Letters & Science have exposure to the essential difference and similarities among various peoples of the earth. The International Studies breadth requirement is designed to foster a spirit of open-mindedness that characterizes a well-educated citizen of the world, and to equip our graduates to thrive in an age of increasing globalization

Hours & Format

Fall and/or spring: 15 weeks - 3-4 hours of lecture and 1-2 hours of discussion per week

Summer:

8 weeks - 5.5-7.5 hours of lecture and 1.5-2 hours of discussion per week

10 weeks - 4.5-6 hours of lecture and 1.5-2 hours of discussion per week

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

L & S 150C International Studies 3 or 4 Units

Each upper-division course in this series involves the study of the contemporary politics, culture, arts or socio-economic structure of at least one country other than the United States. International Studies courses sensitize students to the immense diversity of cultures and social orders in the world today. As connections and communication between nations become more frequent, it is important that students of the College of Letters & Science have exposure to the essential difference and similarities among various peoples of the earth. The International Studies breadth requirement is designed to foster a spirit of open-mindedness that characterizes a well-educated citizen of the world, and to equip our graduates to thrive in an age of increasing globalization

Hours & Format

Fall and/or spring: 15 weeks - 3-4 hours of lecture and 1-2 hours of discussion per week

Summer:

8 weeks - 5.5-7.5 hours of lecture and 1.5-2 hours of discussion per week

10 weeks - 4.5-6 hours of lecture and 1.5-2 hours of discussion per week

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

L & S 160B Philosophy and Values 3 or 4 Units

According to Aristotle, every exercise of our faculties has some good for its aim. Every discipline taught in the College of Letters & Science has ethical implications, and to study a particular subject without considering these implications can be a sterile--and in extreme cases hazardous--exercise. The urge and ability to ponder such questions as the meaning of life distinguish human beings from the other animals. In an increasingly complex world, in which traditional values are often called into question, students of the College are encouraged to reflect upon their own assumptions as well as the assumptions of other times and cultures. In these upper-division Philosophy and Values courses students in the College will be encouraged to ponder the types of questions that will enhance their ability to understand their heritage, their contemporaries, and themselves.

Hours & Format

Fall and/or spring: 15 weeks - 3-4 hours of lecture and 1 hour of discussion per week

Summer:

8 weeks - 5.5-7.5 hours of lecture and 1.5 hours of discussion per week

10 weeks - 4.5-6 hours of lecture and 1.5 hours of discussion per week

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

L & S C160T Philosophy of Mind 4 Units

Mind and matter; other minds; the concept of "person."

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Summer: 6 weeks - 7.5 hours of lecture and 2.5 hours of discussion per week

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Also listed as: PHILOS C132

L & S C160V Human Happiness 3 Units

This course will take an interdisciplinary approach to an understanding of happiness. The first part of the course will be devoted to the different treatments of happiness in the world's philosophical traditions, focusing up close on conceptions of the good life in classical Greek and Judeo-Christian thought, the great traditions in East Asian thought (Taoism, Buddhism, Confucianism), and ideas about happiness that emerged more recently in the age of Enlightenment. With these different perspectives as a framework, the course will then turn to treatments of happiness in the behavioral sciences, evolutionary scholarship, and neuroscience. Special emphasis will be given to understanding how happiness arises in experiences of the moral emotions, including gratitude, compassion, reverence and awe, as well as aesthetic emotions like humor and beauty.

Hours & Format

Fall and/or spring: 15 weeks - 2 hours of lecture and 1 hour of discussion per week

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Also listed as: PSYCH C162

L & S 160D Philosophy and Values 3 or 4 Units

According to Aristotle, every exercise of our faculties has some good for its aim. Every discipline taught in the College of Letters & Science has ethical implications, and to study a particular subject without considering these implications can be a sterile--and in extreme cases hazardous--exercise. The urge and ability to ponder such questions as the meaning of life distinguish human beings from the other animals. In an increasingly complex world, in which traditional values are often called into question, students of the College are encouraged to reflect upon their own assumptions as well as the assumptions of other times and cultures. In these upper-division Philosophy and Values courses students in the College will be encouraged to ponder the types of questions that will enhance their ability to understand their heritage, their contemporaries, and themselves.

Hours & Format

Fall and/or spring: 15 weeks - 3-4 hours of lecture and 1 hour of discussion per week

Summer:

8 weeks - 5.5 hours of lecture and 1.5 hours of discussion per week
10 weeks - 4.5-6 hours of lecture and 1.5 hours of discussion per week

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

L & S 160E Philosophy and Values 3 or 4 Units

According to Aristotle, every exercise of our faculties has some good for its aim. Every discipline taught in the College of Letters & Science has ethical implications, and to study a particular subject without considering these implications can be a sterile--and in extreme cases hazardous--exercise. The urge and ability to ponder such questions as the meaning of life distinguish human beings from the other animals. In an increasingly complex world, in which traditional values are often called into question, students of the College are encouraged to reflect upon their own assumptions as well as the assumptions of other times and cultures. In these upper-division Philosophy and Values courses students in the College will be encouraged to ponder the types of questions that will enhance their ability to understand their heritage, their contemporaries, and themselves.

Hours & Format

Fall and/or spring: 15 weeks - 3-4 hours of lecture and 1 hour of discussion per week

Summer:

8 weeks - 5.5-7.5 hours of lecture and 1.5 hours of discussion per week
10 weeks - 4.5-6 hours of lecture and 1.5 hours of discussion per week

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

L & S 170AC Crossroads of Earth Resources and Society 4 Units

Intersection of geological processes with American cultures in the past, present, and future. Overview of ethnogeology including traditional knowledge of sources and uses of earth materials and their cultural influences today. Scientific approach to study of tectonic controls on the genesis and global distribution of energy fuels, metals, and industrial minerals. Evolution and diversity of opinion in attitudes about resource development, environmental management, and conservation on public, private, and tribal lands. Impending crisis in renewable energy and the imperative of resource literacy.

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Instructor: Brimhall

Also listed as: EPS 170AC

L & S 180A Social and Behavioral Sciences 3 or 4 Units

Upper-division courses in this Social and Behavioral Sciences series provide students with the tools they need to analyze the determinants of human behavior and the dynamics of social interaction among human beings. While fulfilling this breadth requirement, students may find that they look upon the world with a fresh perspective: every encounter or gathering provides an opportunity to observe society in action. Students of the College of Letters & Science will also find that the ability to analyze the complex political, economic, social, cultural, and psychological factors at play in contemporary life will equip them to evaluate the evidence mustered in support of key public policy decision

Hours & Format

Fall and/or spring: 15 weeks - 3-4 hours of lecture and 1 hour of discussion per week

Summer:

8 weeks - 5.5-7.5 hours of lecture and 1.5 hours of discussion per week
10 weeks - 4.5-6 hours of lecture and 1.5 hours of discussion per week

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: Letter grade. Final exam not required.

L & S 180AC Archaeology of Sex and Gender 4 Units

Brings together theoretical work on sex and gender from gender and women's studies, science studies, philosophy, and the social sciences, with archaeological case studies from the forefront of contemporary scholarship. Emphasizes the experience of people with different cultures of sex/gender in the U.S., tracing specific historical traditions and examining how different conceptions of sex and gender were mediated when people of different racial, ethnic, and cultural backgrounds came together in the U.S. past.

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: Letter grade. Final exam not required.

Instructor: Joyce

L & S C180T Language and Power 4 Units

Multidisciplinary explorations into the origins, nature, and exercise of language as social symbolic power, drawing on readings taken from anthropology, social and cultural theory, and critical discourse analysis. Topics include language and myth, the meaning of meaning, the economy of verbal exchanges, perspective and ideology in language, institutional discourse, gender and discourse, and linguistic imperialism.

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Instructor: Kramsch

Formerly known as: 109

Also listed as: GERMAN C109

L & S C180U Wealth and Poverty 4 Units

This course is designed to provide students with a deeper understanding both of the organization of the political economy in the United States and of other advanced economies, and of why the distribution of earnings, wealth, and opportunity have been diverging in the United States and in other nations. It also is intended to provide insights into the political and public-policy debates that have arisen in light of this divergence, as well as possible means of reversing it.

Rules & Requirements

Credit Restrictions: Students will receive no credit for C103 after taking 103.

Hours & Format

Fall and/or spring: 15 weeks - 2 hours of lecture and 2 hours of discussion per week

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Instructor: Reich

Also listed as: PUB POL C103

L & S C180W Who Owns the Past? Cultural Heritage in a Digital Age 4 Units

A cross-disciplinary exploration of cultural heritage on a global and local scale through discussion, debate, in-class activities, and team-based research projects that draw attention to the impacts of digital technology. Themes include the creation and management of heritage sites; the ethics of archaeologists as stewards of heritage; listening to multiple voices of interest groups; destruction and looting; and the preservation, conservation, and public presentation of heritage.

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: Letter grade. Final exam not required.

Also listed as: ANTHRO C136K

L & S C180X Arts and Cultural Policy 4 Units

Survey of government policy toward the arts (especially direct subsidy, copyright and regulation, and indirect assistance) and its effects on artists, audiences, and institutions. Emphasizes "highbrow" arts, U.S. policy, and the social and economic roles of participants in the arts. Readings, field trips, and case discussion. One paper in two drafts required for undergraduate credit; graduate credit awarded for an additional short paper to be arranged and attendance at four advanced colloquia throughout the term. Undergraduate level of 257.

Rules & Requirements

Credit Restrictions: Students will receive no credit for Public Policy C157/Letters and Science C180x after taking Public Policy 108 or 157.

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details

Subject/Course Level: Letters and Science/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Instructor: O'Hare

Also listed as: PUB POL C157