

MAJORS, MINORS, and PROGRAMS

ANTHROPOLOGY

Jaye Cee Whitehead, Chair; Daniel Eisen, Aaron Greer, Jessica Hardin, Sarah Phillips, Adam Rafalovich, Taryn VanderPyl

The Anthropology major and minor are offered through the Department of Sociology, Anthropology, and Criminal Justice, Law and Society, which also offers a major in Sociology and Criminal Justice, Law and Society. Minors are available in Sociology, Anthropology, Criminal Justice, Law and Society and Comparative Religion.

Anthropology explores the diversity of humankind by asking what it means to be human. Anthropologists examine this diversity through the common thread of culture building on the premise that all cultural beliefs, values, and practices can be understood when examined in their own cultural context. By examining human behaviors comparatively, anthropologists learn to avoid ethnocentrism, the tendency to interpret practices as strange on the basis of preconceptions derived from one's own cultural background. Anthropologists learn how to make the strange familiar and the familiar strange and thereby provide frameworks for cross-cultural understanding at the micro and macro level.

Anthropology majors are trained in qualitative and ethnographic research skills along with tools for advanced critical thinking and theoretical application. The program contributes to a liberal arts education, prepares students for graduate training in anthropology, civic and community engagement, as well as careers in healthcare, government, business, law, journalism, social services, education, and human rights work—in local and international settings.

The anthropology curriculum provides graduates with knowledge and perspectives needed to participate as engaged citizens in a global society. Anthropology emphasizes tolerance and respect for other cultures' ways of living. Anthropological approaches oriented toward social and political engagement, collaborations with local communities, applied work, and public dissemination of research (through publishing, oral presentations, film, internet and museum exhibits, web-content) provide specific tools and opportunities for inspiring students to think, care, create, and pursue justice in our world.

Students interested in an Anthropology major should consult with a faculty member in the Anthropology Department before the end of the sophomore year. It is highly recommended that students study abroad, participate in a travel course, or engage in local immersion in the United States.

Program Learning Outcomes

Students who complete a major in anthropology will be able to:

- (1) exercise anthropological thinking - observing the relationship between individuals and historical, cultural, and social forces
- (2) appreciate the diversity of human cultures and the interconnectedness of people around the world
- (3) understand the major questions, concepts, ethical issues and methodologies of anthropology as a professional discipline
- (4) reflectively perceive how one's particular life experiences are shaped by social factors, including economic status, age, race, ethnicity, gender, sexuality, and religion
- (5) demonstrate a basic knowledge of how social inequalities operate at the macro and micro scale
- (6) demonstrate a basic understanding of academic anthropological literature as it relates to contemporary social issues
- (7) creatively apply anthropological understandings to public debates, social problems, and community programs
- (8) demonstrate an ability to gather, organize, and analyze data
- (9) use a variety of anthropological methods including interviews, participant observation, field notes
- (10) demonstrate an ability to work with peers
- (11) employ flexible methods of self-presentation across a variety media, including written, social, visual, and oral

Anthropology: Requirements for the Major

The Anthropology major must complete the following courses with a grade of C- or better and maintain a 2.0 average in the major.

ANTH 101	Introduction to Cultural Anthropology	4 credits
One of the following:		4 credits
ANTH 140	Introduction to Comparative Religions	
ANTH 240	Topics in Comparative Religion	
One of the following:		4 Credits
ANTH 203	Contemporary Pacific Studies	
ANTH 206	Sex, Gender, Culture	
ANTH 207	Good Food: Culture, Consumption, and Production	
Two of the following:		8 Credits
ANTH 311	Medicine, Body, and Culture	
ANTH 313	Religion and Culture	
ANTH 317	Pop Culture: Cultural Studies	
ANTH 343	Food, Fat, and Fitness	
All of the following:		10 credits
ANTH 302	Designing Ethnography	
ANTH 402	Writing Ethnography	
ANTH 412	Ethnography Lab: Senior Capstone	

Twelve additional credits in Anthropology, at least 8 of which must be 300+ level credits. Sociology courses may be used to fulfill to this requirement by Anthropology faculty approval.

TOTAL: 42 credits

Anthropology: Requirements for the Minor

The Anthropology minor must complete the following courses with a grade of C- or better and maintain a 2.0 average in the major.

ANTH 101	Introduction to Cultural Anthropology	4 Credits
One of the following:		4 credits
ANTH 140	Introduction to Comparative Religions	
ANTH 203	Contemporary Pacific Studies	
One of the following		4 credits
ANTH 206	Sex, Gender, Culture	
ANTH 207	Good Food: Culture, Consumption, and Production	
ANTH 240	Topics in Comparative Religion	

Eight additional Anthropology credits at 300+ level. Sociology courses may be applied to this requirement by Anthropology faculty approval.

TOTAL: 20 credits

COURSES

ANTH-101 Introduction to Cultural Anthropology

An introduction to the methods, theories, and history of cultural anthropology investigating the comparative study of human societies in all their remarkable complexity and diversity. A special mandate of the field is to discover new and less harmful ways of perceiving and understanding the different experiences, practices, histories, and values of people and communities from all parts of the world. This course is designed to examine the ways people within a range of societies make sense of and order their lives. It emphasizes that other possibilities, beyond the ones with which we are most familiar, exist for solving problems and for achieving meaningful lives. Counts toward core requirement: International Perspectives. Offered annually. 4 credits.

ANTH-140 Introduction to Comparative Religions

Comparative study of major world and selected regional religions with an emphasis on the analysis of beliefs, rituals, symbolism and social organization. Also listed as REL 140. Counts toward core requirement: Diverse Perspectives and/or International Perspectives. 4 credits.

ANTH-155 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

ANTH-195 Independent Study

See department for details. Independent study contract required.

ANTH-203 Contemporary Pacific Studies

Oceania is a region of extraordinary cultural diversity, including Melanesia, Micronesia, and Polynesia. The Pacific has long been an object of European interest being imagined as a serene, exotic, and savage paradise. These images reflect Western desires and discourses, and counter everyday life in the Pacific Islands. This course will explore the relationship between western and local/indigenous representations of culture while also focusing on the dynamics of social life and transformations associated with de/colonization and globalization in the Pacific. Counts toward core requirement: International Perspectives. Offered triennially. 4 credits.

ANTH-204 Prep Samoa: Well-Being & Culture

This two-credit course will prepare students for a two-week travel course to Samoa. The preparation course will focus on immersing students in the ethnography of Samoa and Samoan social issues. We will also develop research questions, methods, and IRB protocols if necessary before traveling. Students will demonstrate general knowledge about Samoa and the region. Corequisite: ANTH 205. Counts toward core requirement: International Perspectives. Offered alternate years. 2 credits.

ANTH-205 Travel Samoa: Well-being & Culture

This 2-week travel course immerses students in the culture of Samoa. Students can explore Samoa through ethnographic research on a variety of topics including, but not limited to, health, gender/sexuality, education, dance, sport, youth issues, music, religion, food, migration, globalization, or (eco)tourism. Students will conduct semi-independent research projects. Several excursions will complement students' research. Students will demonstrate general knowledge about Samoa and the region. Corequisites: ANTH 204. Counts toward core requirement: International Perspectives. Offered alternate years. 2 credits.

ANTH-206 Sex, Gender, Culture

In all societies, people organize social relationships and identities, ideologies and symbolic systems, in terms of gender and sexuality, but they do so in different ways. In this course, we will examine the ways in which individuals and societies imagine, experience, impose and challenge gender and sexuality systems in a diversity of cultural contexts, including those of the United States, Oceania, Africa, and Asia. One of the aims throughout the course will be to explore other societies as a means of better understanding and critiquing our own. Prerequisites: GSS 201, ANTH 101, SOC 101, SOC 102, SOC 110, SOC 120, or SOC 130. Counts toward core requirement: Diverse Perspectives and International Perspective. Offered triennially. 4 Credits.

ANTH-207 Good Food: Eating & Community

People give meaning to the consumption, distribution, and production of food and its effects on bodies in ways that define the appropriate social relationships in the world. This course explores how societies build connections between what we eat and who we are and between definitions of good food as linked to definitions of a good society and a good life. We will discuss how people define themselves and their cultures via food production, distribution, preparation, and consumption. This class will also critically examine food systems at local and global levels. Prerequisite: ANTH 101, PH 101, SOC 101, SOC 102, SOC 110, SOC 120, or SOC 130. Counts toward core requirement: Civic Engagement and International Perspectives. Offered triennially. 4 credits.

ANTH-220 Introduction to International Studies

This course is designed to familiarize students with some of the many interpretive and methodological approaches used by scholars in the growing field of International Studies. The course uses an interdisciplinary approach to understand the global flow of people and commodities as well as some key events and institutions that shape contemporary power relations. Also listed as IS 220. 4 credits.

ANTH-240 Topics in Comparative Religion

A class on topics of current interest in comparative religions. See department for current course description. Also listed as REL 240. Counts toward core requirement: Diverse Perspectives and International Perspectives. May be repeated for credit. 4 credits.

ANTH-241 Introduction to World Music

Through lecture, discussion, structured listening and participation, students will explore various music cultures throughout the world including those in Japan, Eastern Europe, Latin America, Africa, Indonesia and India. In addition, the course includes an examination of Afro-American and Native American music as well as other less commonly known North American forms and genres. Also listed as MUS 241. Counts toward core requirement: International perspectives. 4 credits.

ANTH-255 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

ANTH-268 Trinidad Culture & Society

Designed to prepare students for travel to Trinidad and Tobago in the Winter Term (ANTH/SOCWK 368). The course covers various features of Trinidad and Tobago's history from its early imperial encounter to its present post-colonial condition. Additionally, the class covers contemporary culture and local and global political economy. Perhaps most importantly, the course requires students to create a research project to be implemented as field research in Trinidad and Tobago. In this sense, the course is preparation for what anthropologists and social workers would refer to as a 'field methods' class. For this element of the class, students must create a research project, conduct preliminary textual and internet research, and begin making contacts in Trinidad and Tobago. Students therefore must be fully prepared at the end of this course to conduct self-directed, ethnographic research in Trinidad and Tobago. Also listed as SOCKW 268. Offered alternate years during Fall. 4 credits.

ANTH-275 Internship

See department for details. Internship contract required. 1-4 credits.

ANTH-295 Independent Study

See department for details. Independent study contract required. 1-6 credits.

ANTH-299 Field Experience

A course for students who wish to combine anthropology and their service learning experiences through the Humanitarian Center. May be repeated for credit. 1-2 credits.

ANTH-302 Designing Ethnography

One of the aims of anthropology is "to grasp the native's point of view, his relation to life, to realize his vision of his world." Anthropologists employ many strategies, methods, and approaches to understand this point of view and related cultural context. This class is designed to give students hands-on experience with research design and qualitative methods as well as build awareness around the benefits and limitations of such methods. The course begins with an introduction to ethnography as a way of collecting empirical data and as a way of thinking. We then explore specific methods, while students develop their own research proposals and IRBs. Prerequisites: ANTH 101, Soc 101, SOC 102, SOC 110, 120, or 130 and Sophomore Standing. Offered annually. 4 credits.

ANTH-304 Prep Samoa: Well-being & Culture

This two-credit course will prepare students for a two-week travel course to Samoa. The preparation course will focus on immersing students in the ethnography of Samoa and Samoan social issues. We will also develop research questions, methods, and IRB protocols if necessary before traveling. Students will develop an argument/stance on particular aspects of Samoan culture. Corequisite: ANTH 305. Counts toward core requirement: International Perspectives. Offered alternate years. 2 credits.

ANTH-305 Travel Samoa: Well-being & Culture

This 2-week travel course immerses students in the culture of Samoa. Students can explore Samoa through ethnographic research on a variety of topics including, but not limited to, health, gender/sexuality, education, dance, sport, youth issues, music, religion, food, migration, globalization, or (eco)tourism. Students will conduct semi-independent research projects. Several excursions will complement students' research. Students will develop an argument/stance on particular aspects of Samoan culture. Corequisite: ANTH 304. Counts toward core requirement: International Perspectives. Offered alternate years. 2 credits.

ANTH-310 Doing Ethnography

This course involves the study and practice of the complex craft of ethnography. Students will read, analyze, and critique ethnographies in conjunction with the critical review and analysis of influential social, literary, and ethnographic theories. The production of an ethnography, involving primary field research, a literature review, and social/cultural analysis is a crucial component of the course. Prerequisite: Sophomore standing or above (30 or more completed credits). 4 credits.

ANTH-311 Medicine, Body and Culture

This course is an introduction to critical areas of inquiry in medical anthropology. By examining the socio-cultural dimensions of sickness and healing cross-culturally, we will explore how anthropologists have approached historical and contemporary problems in the global field of medicine. While our course trajectory will lead us to treat Western biomedicine as only one among many systems of meaning and authority, we will also spend some time deconstructing the often unspoken assumptions that govern this field, thereby complicating the notion that the latter is somehow insulated from the reach of culture. We will also focus on issues of power, inequality, and gender and health. Pre-requisite: ANTH-101, GSS-201, SOC-101, ANTH-140, SOC-217 or PH-101. Counts toward core requirement: International Perspectives, Diverse Perspectives, Civic Engagement. 4 credits.

ANTH-313 Religion & Culture

An anthropological and sociological analysis of religious practice, including belief, ritual, experience, organization, and knowledge. Using interpretive strategies from anthropology, sociology, and religious studies this course investigates the origins and development of religious practice as unique social contexts and their relation to other forms of social life. Prerequisite: Sophomore standing or above. 4 credits.

ANTH-317 Pop Culture: Cultural Studies

Using theories drawn from the school of Cultural Studies as well as what has come to be known as "critical theory", this course takes an intensive analysis of the many artifacts of popular culture. A central goal of the course is to understand how the artifacts we analyze reflect, respond to, shape, and are shaped by the broader social/cultural forces around them. Also listed as SOC 317. Prerequisite: ANTH 101, SOC 101, SOC 102 SOC 110, SOC 120, or SOC 130. Offered annually. 4 credits.

ANTH-343 Food, Fat, and Fitness

The United States is a culture obsessed with food, fat, and fitness. As efforts to reduce obesity increase, rates of obesity actually increase. Why is that? This anthropology course depends heavily on interdisciplinary perspectives to explore the connections between body size and culture, examining food, fat, and fitness not just as public health issues but as culturally and historically constructed categories related to gender, race, sexuality, and class. While we will explore biocultural approaches to obesity, this course is not a biomedical study of the "obesity epidemic." Instead we examine the discourses and vocabulary used to describe this current "crisis." Also listed as GSS 343 and PH 343. Prerequisites: ANTH 101, GSS 201, SOC 101, ANTH 140, SOC 217, or PH 101. Offered alternate years. 4 credits.

ANTH-355 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

ANTH-368 Trinidad Culture & Society: Travel

Travel course to Trinidad and Tobago. The class is designed so that students are, in many ways, the primary architects of their travel experience. They design their own research projects, set goals for conducting and completing their projects, meet with Trinidadians they contacted themselves, and analyze the data they collected. In essence then, this course serves as a field methods class in Social Science, though open to all majors. The course blends scientific methods, critical philosophical inquiry, and literary writing practices to help students become creative and critical thinkers as well as internationally engaged and aware citizens. Also listed as SOCWK 368. Prerequisites: ANTH 268 or SOCKW 268. Counts towards core requirement: International Perspectives. Offered alternate years during Winter. 2 credits.

ANTH-395 Independent Study

See department for details. Independent study contract required.

ANTH-402 Writing Ethnography

This course involves the study and practice of the complex craft of writing and evaluating ethnography. Students will read, analyze, and critique ethnographies in conjunction with the critical review and analysis of influential social, literary, and ethnographic theories while writing their own ethnographies. The production of an ethnography, involving primary field research, a literature review, and social/cultural analysis is a crucial component of the course. Prerequisites: ANTH 302 and Junior Standing. Offered Annually. 4 credits.

ANTH-412 Ethnography Lab: Senior Capstone

Students will complete their senior thesis projects in Ethnography Lab. The course will focus on presenting findings and projects in multiple formats including through social media, journalism, as well as ethnography. Emphasis will be placed on peer-feedback and discussion. Prerequisite: ANTH 402. Offered Annually. 2 Credits.

ANTH-450 Directed Research in Anthropology

Directed Research in Anthropology allows students of advanced standing to participate in a research project with an anthropology faculty member in order to gain practical experience in the conduct of ongoing professional-level sociological research. Prerequisite: Junior standing or above (60 or more completed credits). Instructor's consent required. May be repeated for credit, up to 6 credits total. 1-4 credits.

ANTH-455 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

ANTH-475 Internship

See department for details. Internship contract required.

APPLIED SCIENCE

Kevin Johnson, Director, School of Natural Sciences

The Applied Science major leads to a well-rounded, cross-disciplinary degree in science, well-suited for students seeking technical employment in areas where a cross-disciplinary background in science is desirable. The major also offers good preparation for students entering certain health related fields. Applied Science may be appropriate for students interested in teaching Middle School or High School science with an Integrated Science endorsement; interested students should consult with the College of Education about additional requirements.

Program Learning Outcomes

A student completing a major in Applied Science shall demonstrate the ability to:

- Demonstrated competency with fundamental quantitative methods and tools
- Demonstrated foundational proficiency in using computer technology
- Have intermediate knowledge and application experience in at least two areas of the Natural Sciences
- Be able to communicate scientific ideas in both written and oral formats.

Applied Science: Requirements for the Major

Two minors from among the following:

- Applied Physics
- Biology
- Chemistry
- Computer Science
- Environmental Science
- Exercise Science
- Mathematics

One of the following:

MATH 207	General Elementary Statistics	4 credits
MATH 226	Calculus I	4 credits

One of the following:

CS 150	Introduction to Computer Science I	4 credits
CS 130 and CS 230	Software Tools	4 credits
MATH 301	Mathematical Modeling	4 credits

At least 28 credits of courses numbered 300 or higher from among BIOL, CHEM, CS, EXIP, ENV (Science courses only), MATH, PHY. These courses should be selected to meet specific career or interdisciplinary goals and require approval of the Natural Sciences Division curriculum committee (currently, department chairs from the above mentioned departments). No more than 4 credits of internship may be counted toward this total.

One of the following: SCI 490 or a Capstone within one of the departments of your selected minors	Senior Capstone	2-6 credits
--	-----------------	-------------

COURSES

SCI-155 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

SCI-170 Astronomy

A survey of astronomy, including the solar system, stars and stellar evolution, galaxies, cosmology, astronomical instruments, and space science. Evening observing sessions. 4 credits.

SCI-172 Introduction to Cosmology

Recent discoveries in astronomy are shedding light on some of the biggest questions we can ask: Does space go on forever, or does it have an end somewhere? Has the universe always existed, or did it have a beginning? Where does the matter that makes up our bodies come from? What will be the fate of our universe in the future? This course provides an overview of what science has to say about these kinds of questions, and an introduction to the methods used to gain this knowledge. Class discussions and assignments will help you develop your own personal perspective on how you connect to the big picture, guided by information from modern scientific cosmology. 2 credits.

SCI-190 Engineering Passport

An introduction to the fields of engineering, with an emphasis on the methods of problems solving and the nature of employment in these fields. Course activities include presentations, discussions, guest lectures, field trips, and problem-solving exercises. 1 credit.

SCI-200 Material Science for Makers

Through the lens of cultural values, this interdisciplinary course introduces students to relationships between art, craft, design, and science as applied to processes and materials used for the production of functional objects such as tools, tableware, and clothing. Throughout history, scientific and empirical approaches have been used outside of the laboratory by artisans and craftspeople to improve our food, tools, and shelters for the benefit of our health and well-being. In this course, students will use the scientific method in their work as they explore how science and culture inform and influence our choices and treatment of physical materials used to make the things we need. We will evaluate these choices for their utility and investigate the materials and processes of making using the scientific frameworks of physics and chemistry. We will also assess methods of production while considering issues of sustainability and environmental stewardship. Using Japanese culture as a unifying thread through lecture, reading, written reflection, and hands on making, students will explore attitudes towards consumption and the science behind the processes of making objects of use in indigenous, traditional, and industrial cultures. Through the course of the semester, students will complete a simple sheath knife, a raku tea bowl, and a shibori-dyed article of clothing. The course will be team taught by faculty from both the School of Natural Sciences and the School of Humanities. Corequisite: HUM 200. 2 credits.

SCI-255 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

SCI-355 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

SCI-455 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

SCI-475 Internship

See department for details. Internship contract required.

SCI-490 Applied Science Senior Capstone

Serves as the capstone course and project for students majoring in Applied Science. Students will design and complete a capstone project that includes independent study and analysis of experimental or scientific literature. Examples of acceptable projects include a focused review of the literature that results in an original interpretation of novel applications; a pedagogical project for students interested in pursuing a career in teaching; a project based on community service that uses innovative application of scientific principles and technology; an internship at a government laboratory or an industrial site. All projects culminate in a written paper, and public presentation. Prerequisite: Senior standing, declared Applied Science major, and 14 credits of relevant upper division coursework. Instructor's consent required. 2 credits.

SCI-495 Independent Study

See department for details. Independent study contract required.

ART/ART HISTORY

Doug Anderson, Chair; Jim Flory, Tally Locke, Terry O'Day, Rebecca Twist

"A liberal arts education empowers individuals and prepares them to deal with complexity, diversity, and change as well as helping students develop a sense of social responsibility, strong intellectual and practical skills, and the demonstrated ability to apply knowledge and skills in real-world settings."
Association of American Colleges and Universities

The art department offers a broad scope of opportunities for attaining a liberal arts education. From traditional fine art subjects, such as painting and photography, to artisanal craft-based media, such as ceramics, metal, and glass; to digital technology such as 3D modeling and printing; and to community-based genres, such as eco art and social sculpture, students are sure to find an area that suits their expressive style. Rigorous study of art history across culture and time offers opportunities to consider multiple perspectives as well as providing a firm grounding for the understanding that cultural context is a shaping force for all human activity.

What connects all of these different areas is our commitment to liberal arts core values and a focus on process in relation to context. Whether painting a landscape, building a bridge, or starting a school; creative ideation, intelligent planning, and skillful execution are essential elements for generating change in the world. We believe that the studio arts provide an ideal venue for learning and practicing these critical skills. Ensuring that our students understand the applicability and transferability of the creative making process to all areas of life is a primary goal.

At the core of both the Fine Art and Design Tracks of the Art major are common outcomes that help students practice and refine their creative process. Students who complete the program will be able to generate original ideas, communicate the contexts and concepts that frame and drive their work, develop their craft, and adopt behaviors for success.

Program Learning Outcomes

- Outcome 1: Creative Process
Students will be able to use a variety of brainstorming techniques to generate novel ideas of value to solve problems
- Outcome 2: Development of Skill and Technique
Students will have sufficient mastery of one or more media to complete the technical and formal challenges pertinent to a body of original work.
- Outcome 3: Communication of Ideas and Context
Students will be able to clearly communicate the content and context of their work visually, orally and in writing.
- Outcome 4: Development of Deliberate Practice
Students will develop behaviors such as curiosity, initiative, and persistence that will help them engage with the world in productive ways.
Students will be able to work independently or collaboratively to achieve stated goals

Students are encouraged to explore a broad range of applications for art practice. Some of the possible avenues for exploration are described below:

Art: Fine Art Track

In this track students explore personal expression and interpretation to investigate aesthetic boundaries and to develop concepts relevant in today's world. The program leads students to these outcomes through four studio levels, Studio I: The Creative Process, Studio II: Exploration, Studio III: Convergence: Studio IV: Studio Production. Students are also encouraged to collaborate and to work across discipline boundaries.

Art, Fine Art Track: Requirements for the Major

Foundations (10 credits)

ARTST 119	Digital Imaging	2 credits
ARTST 206	Design for Aesthetics	4 credits
ARTST 210	Drawing	4 credits

Concept and Context (16 credits)

ARTHI 270	Western Art Survey I	4 credits
ARTHI 271	Western Art Survey II	4 credits
ARTST 323	Seminar I: Concepts in Art	2 credits
ARTST 422	Seminar II: Presentation of Art	2 credits
Art History Elective (300 level)		4 credits

Studio Practice (24 credits)

ARTST 321	Studio III: Convergence	4 credits
ARTST 421	Studio IV: Studio Production	2 credits
Studio I elective		4 credits
Studio II electives		12 credits

TOTAL: 50 credits

Fine Art Electives

Fine Art: Studio I electives:

ARTST 121	Studio I: The Creative Process
ARTST 122	Studio I CE: The Creative Process
ARTST 228	Photography I

Fine Art: Studio II electives:

ARTST 221	Studio II: Exploration
ARTST 222	Studio II CE: Exploration
ARTST 208	Design for Function
ARTST 217	Digital Art I
ARTST 218	Digital Illustration I
ARTST 317	Digital Art II
ARTST 318	Digital Illustration II
ARTST 326	Photography II
ARTST 356	Color Photography
ARTST 436	Photography III

Art: Design Track

In this track, design is presented as a universally applicable method for envisioning change, developing effective plans for achieving that change, and then efficiently putting those plans into action through hands-on practice. Merging design thinking, aesthetics, and hands-on inquiry within the context of sustainability offers opportunities to consider the making process through a systems approach that integrates cultural values, social needs, and ecological impacts. Grounded in a deep understanding of materials and process, centered in skillful practice, and connecting the arts, humanities, and sciences, the sustainable designer/maker seeks to balance the tension between artisanal and industrial production modes in order to provide for the material and technological needs of a just society while respecting the boundaries and limits of the ecosystems that are the source of working materials.

Art, Design Track: Requirements for the Major

Foundations (12 credits)

ARTST 107	Systems Thinking for Problem Solvers	2 credits
ARTST 119	Digital Imaging	2 credits
ARTST 210	Drawing	4 credits
Design Foundations elective		4 credits

Concept and Context (10 credits)

ARTST 371	Interdisciplinary Design Seminar	2 credits
Art History elective		4 credits
Context elective		4 credits

Practice (28 credits)

ARTST 307	Leadership Through Design	2 credits
ARTST 370	Interdisciplinary Design Studio	4 credits
ARTST 470	Capstone	2 credits
ARTST 475	Internship	2 credits
Studio I elective		4 credits
Studio II electives		8 credits
Science elective		4 credits
Leadership elective		2 credits

TOTAL: 50 credits

Design Electives

Design: Design Foundation electives

ARTST 207	Design for Sustainability
ARTST 208	Design for Function

Design: Studio I electives

ARTST 121	Studio I: The Creative Process
ARTST 122	Studio I CE: The Creative Process

Design: Studio II electives

ARTST 207	Design for Sustainability
ARTST 208	Design for Function
ARTST 221	Studio II: Exploration
ARTST 222	Studio II CE: Exploration
ENV 330	Ecosystems and Ecological Design
MEDA 306	Animation Studies & Practice
PHY 232	General Physics I - Workshop
PHY 364	Electronics
THEA 120	Technical Theatre
THEA 151	Theatre Company: General Tech Theatre*
THEA 152	Theatre Company: Costume/Makeup*
THEA 153	Theatre Company: Lighting*
THEA 220	Intro to Theatrical Design

*Limit: 4 credits of theatre company courses

Design Leadership electives:

OL 207	Introduction to Outdoor Leadership
PSJ 315	Civic Engagement Mentoring

Design Art History electives:

Any ARTHI course

Design: Context electives:

ENV 222	Environmental Literature
ENV 141	Permaculture Design Science
HIST/ENV 441	Environmental History
PHIL/ENV 321	Environmental Ethics
POLS/ENV 224	Environmental Politics
SOC 342	Consumer Society

Design: Science Electives

PHY 232	General Physics I-Workshop
ENV 121	Our Global Environment
ENV 200	Environmental Science
PSY/ENV 313	Eco Psychology

Fine Art: Requirements for the Minor (for non-art majors)

This minor can be a great supplement to a number of academic majors and to provide creative options to both the liberal arts and professional programs of study.

ARTST 121	Studio I: The Creative Process	2 credits
ARTST 206	Design for Aesthetics	4 credits
ARTST 210	Drawing	4 credits
ARTST 221	Studio II Elective (<i>see list below</i>)	4 credits
ARTST 321	Studio III: Convergence	4 credits
ARTST 312	Art Concepts	2 credits
ARTST 313	Art Presentation	2 credits
ARTHI 270, 271, 276 or 280	Various	4 credits

TOTAL: 26 credits

Studio II electives

ARTST 221	Studio II: Exploration
ARTST 206	Design for Function
ARTST 217	Digital Art I
ARTST 218	Digital Illustration I
ARTST 227	Photography field class I
ARTST 317	Digital Art II
ARTST 318	Digital Illustration II
ARTST 356	Color Photography
ARTST 426	Photography III

Photography: Requirements for the Minor

Designed for non-Art majors who are interested in a concentrated study of photography within the Art department. Minors must include at least 8 credits at 300-level or above.

ARTST 228	Photo I: Introduction to Photography	2 credits
ARTST 326	Photo II: Intermediate Photography	4 credits
ARTHI 271	Western Art II: Renaissance to Present	4 credits

12 credits from the following:

ARTST 119	Intro Digital Imaging	2 credits
ARTST 217/317	Digital Art I/II	4 credits
ARTST 218/318	Digital Illustration	4 credits
ARTST 227/327	Photography Field Class	2 or 4 credits
PHIL 304	Philosophy of Art	4 credits
ARTST 356	Color Photography	4 credits
ARTST 426	Photo III: Advanced Photography	4 credits

TOTAL: 24 credits

Color Photography and Advanced Photography are taught every other year. Photography in Hawai'i alternates every 2-3 years. Students should check to see when courses are offered.

College Alliances

Pacific University offers a unique opportunity for students to enroll in art courses not offered at Pacific at The Oregon College of Arts and Crafts located about twenty minutes from campus. Qualified students are encouraged to enrich their creative experiences at Pacific with the cross registration of courses at the Oregon College of Arts and Crafts through The Alliance of Independent Colleges and Universities. Art students may also choose to study fine art, design or art history abroad with Pacific's international partner York St. John University in York, England. Please see the chair of the art department for details about these programs.

Art History

The discipline of Art History is central to a liberal arts education because it unites the visual arts with numerous fields in the humanities, such as history, politics, religious studies, philosophy, anthropology, archaeology, sociology, gender studies, and literature. As such, art history is interdisciplinary and will enrich the life of any student regardless of major.

Art history is the study of visual culture in its historical and theoretical contexts. It goes beyond merely studying artistic styles and aesthetic theories to exploring a variety of cultures, geographic areas, and time periods, in both western and non-western art, as well as a variety of broad thematic issues to present art history within a global perspective. Through the study of art history, the student can realize the impact of visual culture on the formation of human values, beliefs, creativity, and identity in diverse civilizations as well as for oneself in contemporary society.

Students who major in art history or take art history classes develop skills that enhance their achievements as students and scholars and cultivate skills that are highly valued by employers. These skills include: critical and creative thinking; oral, written, and visual communication skills; problem-solving techniques; the ability to work effectively individually and collaboratively; ability to analyze and interpret using independent thinking; and research and synthesis. The study of art history also inspires students to interact with their visual culture and community through the visitation of local galleries, museums, and art shows, as well as traveling abroad to pursue that interaction with other global communities.

The study of art history prepares students for advanced degrees in graduate school as well as employment in galleries, museums, arts administration, art criticism, nonprofit organizations, art centers and institutions, conservation, archivist, and art education, depending on their skills and experience. Students who are considering graduate work in art history are encouraged to study a foreign language beyond the 102 level. Students who are interested in the field of art conservation may wish to pursue a Chemistry minor. All art history majors must complete all core requirements and maintain a 3.0 average, with no class below a C- in the major.

Art History: Requirements for the Major (42-44 credits)

Core Art History Requirements (20 credits)

ARTHI 270	Western Art I: Paleolithic-Gothic	4 credits
ARTHI 271	Western Art II: Renaissance-Present	4 credits
ARTHI 276	Art & Architecture of Asia: India, China, Japan	4 credits

ARTHI 385	Art Theory, Methodology & Seminar	4 credits
ARTHI 493	Senior Seminar I	2 credits
ARTHI 494	Senior Seminar II	2 credits

Art History 200/300 Electives (12 credits: a minimum of 8 upper-division credits are required)

ARTHI 280	Women in Art	4 credits
ARTHI 282	Special Topics in Art History	2-4 credits
ARTHI 342	Islamic Art & Architecture	4 credits
ARTHI 352	19 th Century Art	4 credits
ARTHI 362	Modern Art: 1900-1960	4 credits
ARTHI 372	Contemporary Art: 1960-Present	4 credits
ARTHI 382	Special Topics in Art History	4 credits
ARTHI 475	Career Internship in Art	4 credits

Any Two Studio Art courses (6-8 credits)

Interdisciplinary Electives (4 credits)

ANTH/REL 140	Introduction to Comparative Religions
ANTH/REL 240	Topics in Comparative Religions
ENGL 227	Introduction to World Literature
ENGL 421	The Romantic Period
ENGL 422	The Victorian Period
GSS 303	Advanced Feminist Theory
HIST/GSS 247	Gender & Sexuality in Victorian America
HIST 113	Islamic Mid-East 570-1300
HIST 142	American History II
HIST/POLS 239	Latin America I
HIST 246	American West: History, Memory and Popular Culture
HIST 300	Ancient World to AD 400
HIST 301	Medieval World 400-1500
HUM 206	Latin America
HUM 207	German Film in English
HUM 213	Introduction to Japanese Literature
HUM 339	History of Science
MEDA 120	Film History and Analysis
MEAD 303	Experimental, Studies and Practice
MEDA 306	Animation, Studies and Practice
ANTH/MUS 241	Introduction to World Music
MUS/REL 341	Music in World Religions
PHIL 205	Ancient Philosophy
PHIL 206	Medieval Philosophy
PHIL 304	Philosophy of Art
PHIL 305	Asian Philosophy
PSJ 225	Middle East

TOTAL: 42-44 credits

Art History: Requirements for the Minor (24 credits)

Required: (16 credits)

ARTHI 270	Western Art I: Paleolithic-Gothic	4 credits
ARTHI 271	Western Art II: Renaissance-Present	4 credits
ARTHI 372	Contemporary Art	4 credits
Any 300 level art history elective course		4 credits

Choose one of the below: (4 credits)

ARTHI 276	Art & Architecture of Asia: India, China, Japan	4 credits
ARTHI 280	Women in Art	4 credits

Any Studio Art Course (4 credits)

4 credits

TOTAL: 24 credits

COURSES

ARTHI-155 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

ARTHI-255 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

ARTHI-270 Western Art I: Paleolithic - Gothic

This course surveys the history of Western art from pre-history to the Gothic era, focusing particularly on the social, political and religious contexts in which this work was created. Through an examination of major monuments, artists and movements, students will gain a greater understanding of the general development of art in the Western world, as well as a familiarity with the basic vocabulary and methods of art analysis. 4 credits.

ARTHI-271 Western Art II: Renaissance - Present

This course surveys the history of Western art from the Renaissance to the present day, focusing particularly on the social, political and religious contexts in which this work was created. Through an examination of major monuments, artists and movements, students will gain a greater understanding of the general development of art in the Western world, as well as a familiarity with the basic vocabulary and methods of art analysis. 4 credits.

ARTHI-276 Art & Architecture of Asia

This course is a selective survey of the architecture and visual arts of Asia, focusing primarily upon the artistic traditions of India, China, and Japan from prehistory to the turn of the twentieth century. Major artworks, monuments, and themes will be examined and interpreted using various analytical and contextual

perspectives (such as formal, functional, iconographic, sociological, cultural, historical, political, and religious) in order to construct an understanding of their significance in an Asian cultural context. Counts toward core requirement: International Perspectives. 4 credits.

ARTHI-280 Women in Art

This course is designed to explore the place of women in art, by investigating both the image of women in art and women as artists. It will explore women's relationship to art at different times and in different cultures. The goal of the class is to shine light on material that often has been overlooked by the traditional art history canon. Feminist theory class desirable. Also listed as GSS 280. Meets Gender & Sexuality Studies minor requirement. 4 credits.

ARTHI-282 Special Topics in Art History

This is a special topics course focusing on the specific interests of students and faculty, including thematic courses and in-depth studies of particular artists, movements, and cultures from throughout the history of art. May be repeated for credit as topic varies. 2 or 4 credits.

ARTHI-295 Independent Study

See department for details. Independent study contract required. 1-18 credits.

ARTHI-342 Islamic Art and Architecture

This course provides students with a general introduction of Islamic art and architecture from the 7th through the 18th century. It examines selected characteristic works of art and architecture from the formative periods to the later periods with distinctive regional expressions. The discussion will cover a variety of media and techniques including architecture, architectural decoration, metal work, ceramics, and the arts of the book, both from the religious and secular realms. Students will explore the meaning and functions of art created within specific religious, social, political, historical, and artistic contexts in order to understand the significance of the visual culture in the Islamic context. Prerequisite: Sophomore standing or above (30 or more completed credits). Counts toward core requirement: International Perspectives. 4 credits.

ARTHI-352 19th Century Art

This course is a contextual examination of the development of painting, sculpture, photography, and other arts from the late 18th-century to the end of the 19th-century, focusing upon North American and European movements. It explores the meaning and functions of the visual arts created within specific social, political, historical, and artistic contexts. In particular, this course studies how artists responded to the developments of the 19th century that led to the rise of modernism and the avant-garde. Prerequisite: Sophomore standing or above (30 or more completed credits). 4 credits.

ARTHI-355 Special Topics in Art History

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

ARTHI-362 Modern Art: 1900-1960

This course is a contextual history of Modern art including painting, sculpture, architecture and other arts in Europe and the United States from 1900 to 1960. In particular, this course will explore the cultural influences, trends in style and expression, and comparative relationships in the visual arts using various analytical perspectives (such as formal, sociological, cultural, historical, and political) in order to understand modern art's significant role as the foundation and impetus for contemporary art. Prerequisite: Sophomore standing or above (30 or more completed credits). 4 credits.

ARTHI-372 Contemporary Art

This course is intended to help students better understand the complex world of contemporary art, through a survey of art movements since 1960. The varied social, political, technological, and artistic contexts of contemporary art will be examined, as well as the various critical and theoretical models used to describe it. Prerequisite: Sophomore standing or above (30 or more completed credits). 4 credits.

ARTHI-382 Special Topics in Art History II

This is a special topics course focusing on the specific interests of students and faculty, including thematic courses and in-depth studies of particular artists and movements from throughout the history of art. May be repeated for credit as topic varies. Prerequisite: Sophomore standing or above (30 or more completed credits). 2 or 4 credits.

ARTHI-385 Art Theory, Methodology & Seminar

This course is an examination of the foundations of the discipline of art history as well as modern and contemporary theoretical movements related to art, through the reading and analysis of texts by philosophers, art historians and critics in a seminar setting. It also involves the development of skills essential to the practices of art history, including methodological approaches, in-depth study and research techniques, writing, and oral presentation. Prerequisite: Junior standing or above (60 or more completed credits); ARTHI 271 and ARTHI 372, both with a minimum grade of C-. 4 credits.

ARTHI-395 Independent Study

See department for details. Independent study contract required. 1-18 credits.

ARTHI-455 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

ARTHI-475 Internship

See department for details. Internship contract required.

ARTHI-485 Art History Seminar

This seminar is designed for the advanced student who wants to pursue intensive, in-depth study, culminating in a research paper on a specific art historical topic. Students study under an instructor's supervision on their research project, and as the seminar is designed to help students create an artistic community on campus, are also required to participate in the seminar meetings. Prerequisite: Junior standing or above (60 or more completed credits), ARTHI-270 and ARTHI-271. Instructor's consent required. May be repeated for credit. 2-7 credits.

ARTHI-493 Senior Seminar I

This class is the first capstone experience for art history majors and is to be taken during the fall (first) semester of the senior year. It is devoted to the proposal, development and research needed for a substantial prospectus for the senior thesis. This senior thesis will consist of an art historical paper of significant length and quality under the supervision of at least one faculty member. Students will also read, discuss, and critique the work of other members of the seminar. Prerequisite: Declared Art History major; ARTHI 385 with a minimum grade of C-. 2 credits.

ARTHI-494 Senior Seminar II

This class is the second capstone experience for art history majors and is to be taken during the spring (or final) semester of the senior year. It is devoted to the research and completion of the senior thesis, which will consist of an art historical paper of significant length and quality under the supervision of at least one faculty member. Students will also read, discuss, and critique the work of other members of the seminar. In addition, seniors will work with the juniors in ARTHI 385, practicing their presentations and reviewing and mentoring them with their projects. Each student will also give a public thesis presentation, usually on Senior Projects Day. Prerequisite: ARTHI 493 with a minimum grade of C-. 2 credits.

ARTST-107 Systems Thinking for Problem Solvers

Systems thinking is a broadly applicable strategy for examining and understanding complex problems and discovering emergent patterns arising from synergistic relationships between elements in biological, physical, and social systems. In this course, we will explore systems thinking and systems modeling as a set of tools, habits and concepts for understanding the structures of complex systems. With an increased understanding of systems structure, identifying strategies for achieving lasting positive change is enhanced. Through hands-on practice, students will utilize systems thinking tools to analyze the root causes of current problems relating to environment, sustainability, design, planning, education, business, and organizational development. Offered Winter term. 2 credits.

ARTST-109 Introduction to Communication Design

Students will explore the many ways in which design is used to enhance meaning, add value, and achieve desired outcomes with print and electronic communications while becoming conversant in many fundamental principles and techniques in the field of visual design. Also listed under MEDA 109. 2 credits.

ARTST-119 Intro to Digital Imaging

A basic introduction to website builders, print design, and imaging programs such as Google Sites, In-Design, and Photoshop. Class projects include combinations of digital asset management, raw processing technology, composition, image editing and manipulation, and digital output options. Students work both on and off the computer. Emphasis is on becoming familiar with the Adobe operating environment and other graphic processes options. Special attention will be paid to copyright awareness in the age of digital image. 2 credits.

ARTST-121 Studio I: The Creative Process

Students will use their imagination to complete projects that reinforce the steps of the creative process and that inspire innovation, teamwork, and play. Emphasis will be placed on finding multiple and novel solutions to problems in relation to the theme and media of the specific section. Paint, print, photo, ceramics, glass, metal, and other media are explored in different sections of this course. See the department website or the advising center for section descriptions. Basic course materials will be supplied; however, students may be required to obtain additional materials necessary to complete their projects. May be repeated for credit. 2-4 credits.

ARTST-122 Studio I CE: The Creative Process

Students will use their imagination to complete projects that reinforce the steps of the creative process and that inspire innovation, teamwork, and play. Emphasis will be placed on finding multiple and novel solutions to problems in relation to the theme and media of the specific section. Paint, print, photo, ceramics, glass, metal, and other media are explored in different sections of this course. Civic Engagement (CE) sections include projects that connect art practice to serving the common good. See the department website or the advising center for section descriptions. Basic course materials will be supplied; however, students may be required to obtain additional materials necessary to complete their projects. May be repeated for credit. Counts toward core requirement: Civic Engagement. 4 credits.

ARTST-155 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

ARTST-195 Independent Study

See department for details. Independent study contract required. 1-18 credits.

ARTST-206 Design for Aesthetics

In this important foundation course students gain hands-on, skill-building experience with a variety of materials and learn the basic principles of manipulating line, shape, tone, texture, and color to achieve unified compositions on a two dimensional surface. Skills and vocabulary learned in this course will be applied in every other studio course in all media. Basic course materials will be supplied, however students may be required to purchase additional materials necessary to complete their projects. Offered annually. 4 credits.

ARTST-207 Design for Sustainability

Focuses on the design process as a tool for conceiving and planning sustainable communities patterned on examples provided by nature. We will consider strategies for producing necessities such as food, energy, shelter, and clothing in ways that enhance lifestyles, strengthen communities, and promote ecological health. Students will learn the principles, practices, and processes of sustainable design through reading, writing, discussion, and hands-on practice in the community. This course carries a requirement of working 3 hours/week outside of class at one of the sustainability-oriented education sites in our community. Counts toward core requirement: Civic Engagement. 4 credits.

ARTST-208 Design for Function

3D modeling software is revolutionizing how we design and create objects. The ability to construct, view, and operate objects in virtual space allows a maker to fully develop ideas before constructing them in physical space. The broad variety of potential applications for this technology includes uses such as rapid prototyping, creating art objects, designing prosthetics, and replacing broken parts in consumer goods. Students will explore a variety of 3D modeling software to produce digital models that can be constructed with computer controlled fabrication technologies such as 3D printers and milling machines, or with traditional materials such as wood, metal, or clay. Basic course materials will be supplied; however, students may be required to purchase additional materials necessary to complete their projects. 4 credits.

ARTST-210 Drawing

This beginning level drawing course introduces students to techniques for recording observations, capturing ideas and communicating information. Course content includes constructing perspective views, rendering accurately with light and shadow, and delineating forms using various media. Students will also explore expressive ways to convey the subject matter through personal interpretation. Basic course materials will be supplied; however, students may be required to purchase additional materials necessary to complete their projects. 4 credits.

ARTST-217 Digital Art I

This course concentrates on the production and processing of images with current digital photographic tools. Explores the techniques and applications of acquiring, manipulating and outputting digitized photographic images for a variety of media. Discusses image resources and development, printing, papers, links, and presentation. Prerequisite: ARTST 117 or ARTST 119. 4 credits.

ARTST-218 Digital Illustration I

This course will focus on creating illustrations in a digital medium. Assignments will emphasize traditional illustration skills such as visual problem solving, composition and drawing skills while exploring the digital possibilities of executing the artwork. This course will also promote an understanding of the importance of digital technology in contemporary illustration. Prerequisite: ARTST 117 or ARTST 119. 4 credits.

ARTST-221 Studio II: Exploration

Studio II offers students further opportunity to explore the creative process while building skills related to a particular studio or theme. Emphasis is on developing independent thinking through deliberate practice. The properties of materials associated with paint, print, photo, ceramics, glass, metal, and other media are explored in different sections of this course. See the department website or the advising center for section descriptions. Basic course materials will be supplied; however, students may be required to purchase additional materials necessary to complete their projects. Previous art experience recommended. May be repeated for credit. 2 or 4 credits.

ARTST-222 Studio II CE: Exploration

Studio II offers students further opportunity to explore the creative process while building skills related to a particular studio or theme. Emphasis is on developing independent thinking through deliberate practice. The properties of materials associated with paint, print, photo, ceramics, glass, metal, and other media are

explored in different sections of this course. CE sections include projects that connect art practice to serving the common good. See the department website or the advising center for section descriptions. Basic course materials will be supplied; however, students may be required to purchase additional materials necessary to complete their projects. Previous art experience recommended. May be repeated for credit. 4 credits.

ARTST-227 Photography Field Class I

This course covers practical applications of photography in various locations. Students must have a 35mm DSLR camera. Course costs include some meals, lodging, and admission fees. Limited to 16 students. Winter 2 credits; Instructor's consent required. Fall 4 credits; Prerequisite: ARTST 227L.

ARTST-227L Photography Field Class I Lab

This course is the experiential travel lab component of ARTST 227 when offered for 4 credits. ARTST 227L is a prerequisite for ARTST 227. Instructor's consent required. Pass/No Pass. 0 credits.

ARTST-228 Photography I

This is a thorough nuts and bolts course to teach students basic camera handling operations as well as introductory photography concepts. Digital darkroom, pinhole photography, and class critiques are integral to the course. Required for most other photography courses. A 35mm Digital SLR is required. 2 credits.

ARTST-255 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

ARTST-275 Internship

See department for details. Internship contract required. 1-4 credits.

ARTST-295 Independent Study

See department for details. Independent study contract required. 1-18 credits.

ARTST-307 Leadership Through Design

Through continued practice, students will strengthen and solidify their fluency with the design process by planning and implementing a project that serves the common good. Students will develop a proposal that includes written justification for the project and drawings produced by hand and with 3D modeling software. Focus is on developing the individual creative voice as well as skill and knowledge sets applicable to the individual area of interest. Coursework will be documented for portfolio and oral presentation. This course may be repeated for credit. This course completes the Civic Engagement core requirement. Prerequisites: ARTST 107 and ARTST 210, ARTST 207 or ARTST 208, 2 credits from ARTST 121 or 122, and 4 credits from the Design Studio II electives. 2 credits.

ARTST-312 Art Concepts

Students will discuss conceptual issues in art using journal articles, visiting artists and gallery visits. Students will also investigate concept development and artist statements. A research project will help students find important links between formal choices, personal expression and content. Art Concepts is taken in the spring of junior year. Prerequisites: Junior Standing, 4 credits from ARTHI and 4 credits Fine Art Studio II elective. 2 credits.

ARTST-313 Art Presentation

Students will learn installation techniques for art and gallery protocol in preparation for mounting exhibitions. Course work will also focus on documenting and developing a professional quality digital portfolio used for applying to graduate programs, pursuing various careers in art, and apply for grants and artist residencies. Visiting artists and other representatives from different art fields will be invited to talk about careers in art. Students will complete their e-portfolios. Art Presentation is taken in the spring of the senior year. Participation in a group exhibition is required. Prerequisites: Junior standing, ARTST 312. 2 credits.

ARTST-317 Digital Art II

A continued exploration into the concepts and processes of photo manipulation through complex composite images, special effects, color balancing and image/text integration. Emphasis is placed on creating a personal vision and style. Students develop skills necessary to create their own unique body of work using a variety of advanced photographic and photo manipulative approaches. Prerequisites: ARTST 217 and ARTST 228. 4 credits.

ARTST-318 Digital Illustration II

A continued exploration into advanced methods of conceptualizing, organizing and executing digital illustrations. The course emphasizes problem solving methods while building experience in preparation and production with a variety of input and output devices. Discusses image resources and development, printing, papers, inks, and presentation. Alternative color systems and pre-press file formats will also be covered. Prerequisites: ARTST 218; and ARTST 210 or ARTST 211. 4 credits.

ARTST-321 Studio III: Convergence

An advanced level studio course that emphasizes concept and context development. Students from all media areas will work independently or collaboratively to create well-crafted, innovative solutions to student and faculty-designed projects. Emphasis will be placed on best practices in concept development, execution and analysis. Some studio materials may be available; however, students may be required to purchase additional materials necessary to complete their projects. Prerequisites: ARTST 119; ARTST 210; ARTST 110 or ARTST 206, and 8 credits from 200 or 300-level ARTST courses. May be repeated for credit. 4 credits.

ARTST-322 Seminar I: Concepts

A study and discussion of issues and concepts in art that will help students develop artist's statements. Students will discuss conceptual issues in art using journal articles, visiting artists and gallery visits. Students will also begin investigating concepts for their senior capstone work. A research project will help students find important links between formal choices, personal expression and content. Students will be required to participate in guest lectures, field trips to galleries and museums. Seminar I is taken in the spring of junior year. Prerequisites: Junior standing, 4 credits from ARTHI, 8 credits from Fine Art Studio II electives. 2 credits.

ARTST-326 Photography II

This course is intended for those students who have completed Photography I. The major emphasis is to give students a solid foundation for seeing, processing and printing black and white images in the traditional darkroom method. The course takes a fine-art approach to photography. Historical aspects of American photographers are introduced. A film SLR camera is useful. Prerequisite: ARTST 226 or ARTST 228. May be repeated once for credit. 4 credits.

ARTST-327 Photography Field Class II

This course covers practical applications of photography in various locations. Students must have a 35mm DSLR camera. Course costs include some meals, lodging, and admission fees. Limited to 16 students. May be repeated once for credit. Winter 2 credits; Instructor's consent required. Fall 4 credits; Prerequisite: ARTST 327L.

ARTST-327L Photography Field Class II Lab

This course is the experiential travel lab component of ARTST 327 when offered for 4 credits. ARTST 327L is a prerequisite for ARTST 327. Instructor's consent required. May be repeated once. Pass/No Pass. 0 credits.

ARTST-354 Elliott Visiting Artist

This course is taught by a visiting artist and is designed to challenge the advanced art student in a variety of ways. Course will include intensive engagement in critique, discussion of current art topics, and studio production. Prerequisite: one 300-level ARTST course; ARTST 110; and ARTST 210 or ARTST 211. May be repeated for credit. 4 credits.

ARTST-355 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

ARTST-356 Color Photography

This is a comprehensive advanced course that covers color photography and printing via digital technology. Students will use studio lighting to create still life and portrait images using DSLR cameras. Students will be encouraged to investigate their own emotional response to color. Prerequisite: ARTST 226 or ARTST 228 and declared Art major or minor. May be repeated once for credit. 4 credits.

ARTST-370 Interdisciplinary Design Studio

This course provides an opportunity to work on a real-world design problem under the guidance of guest professionals. Students will engage with all aspects of the design process. The design problem is determined by a steering group comprised of faculty, students, administrators, and staff and will typically consider sustainability in relation to the built environment, product development, landscape design, or community development. Theory to practice methodology emphasizes the development of communication, decision-making, and project management skills. In combination with the Integrative Design Seminar, this course provides a comprehensive pre-professional experience as a bridge to the post-college environment. Prerequisite: Junior standing or above (60 or more completed credits) and ARTST 307. Corequisite: ARTST 371. May be repeated for credit. 4 credits.

ARTST-371 Interdisciplinary Design Seminar

The discussion/research companion to the Interdisciplinary Design Studio that provides a rigorous peer-review learning community in support of the design process. Students will engage in community-based research, discussion, literature review, critical analysis, and descriptive writing. Emphasis is on honing concept and context development abilities as a necessary precursor to producing a robust project proposal. This course draws on and integrates general education skills in reading, writing, thinking, and problem-solving as well as discipline-specific knowledge and understandings. Prerequisite: Junior standing or above (60 or more completed credits) and ARTST 307. Corequisite: ARTST 370. Counts toward core requirement: Civic Engagement. May be repeated for credit. 2 credits.

ARTST-372 Interdisciplinary Design Seminar NM

This course gives non-art majors the opportunity to participate in the interdisciplinary design studio project in order to bring different perspectives, understandings, and skill-sets into the design process. Learning goals, expected outcomes and deliverables will be determined through discussion in relation to project needs and student interests at the beginning of the course. Prerequisite: Declared major in any discipline and Junior Standing or above (60 or more completed credits). Counts toward core requirement: Civic Engagement. May be repeated for credit. 2 credits.

ARTST-395 Independent Study

See department for details. Independent Study contract required.

ARTST-421 Studio IV: Studio Production I

This is the first part of the capstone experience for senior art majors who are developing a body of work for the Senior Exhibition and Senior Project Day presentations. Students will meet throughout the semester with their Capstone Advisory Committee, a team of three art faculty mentors chosen in part by the student. Emphasis will be placed on concept development and appropriate craftsmanship. Students must sign up with the designated leader of their Capstone Advisory Committee. Intended to be taken in the fall of the senior year. Prerequisites: Declared Studio Art Major, Fine Art Track; Take ARTST 321 and 322 with minimum grade C-. 2 credits.

ARTST-422 Seminar II: Presentation

Students will learn installation techniques for art and gallery protocol in preparation for mounting their senior exhibitions. Course work will also focus on documenting and developing a professional quality digital portfolio used for applying to graduate programs, pursuing various careers in art, and apply for grants and artist's residencies. Visiting artists and other representatives from different art fields will be invited to talk about careers in art. Students will complete their e-portfolios. Participation in a group exhibition is required. Seminar II is taken in the spring of the senior year, concurrently with ARTST 423. Prerequisites: ARTST 421 with a minimum grade of C-. Co-requisite: ARTST 423. 2 credits.

ARTST-423 Studio IV: Studio Production II

This course is the second part of the capstone experience for senior art majors who are developing a body of work for the Senior Exhibition and Senior Projects Day presentations. Students will meet throughout the semester with their Capstone Advisory Committee, a team of three art faculty mentors chosen in part by the student. Emphasis will be placed on completing and appropriately presenting artwork for the Senior Exhibition. Students must sign up with the designated leader of their Capstone Advisory Committee. Studio IV is intended to be taken the spring of the senior year, concurrently with ARTST 422. Prerequisite: ARTST 421 with minimum grade C-. Co-requisite: ARTST 422. 2 credits.

ARTST-426 Photography III

This course deals with the traditional approach to achieving a "fine print." Shooting techniques, print size and shape, and archival processes in darkroom procedures, including toning will be covered. Students will use medium-format cameras for their photography. The work of Adams, Weston, Strand, and others will be used as a historical perspective to understand various approaches to the "fine print." Prerequisite: ARTST 326. 4 credits.

ARTST-455 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

ARTST-470 Design Capstone

Design capstone fulfills the Research and substantive and individualized achievement in Design. Coursework also includes the completion of a portfolio directed towards graduate school or the career of choice to facilitate a successful transition from college. Prerequisite: ARTST 370, ARTST 371. 1-4 credits.

ARTST-475 Internship

See department for details. Internship contract required.

ARTST-495 Independent Study

See department for details. Independent study contract required. 1-18 credits.

ASIA-PACIFIC STUDIES

Tim Yang, Chair

The Asia-Pacific Studies Minor is an interdisciplinary program of study across the humanities and social sciences. It is intended for students who want to develop a knowledge and understanding of the cultures, politics, societies, and histories of Asia and the Pacific Rim, either for their future careers or for their personal interest. The minor will provide students with knowledge of global processes that connect people, places, and technologies within the Asia-Pacific region.

The minor consists of a minimum of 20 credits (including 8 upper-division credits) from the following courses listed below. Although an Asian language is not required, it is highly encouraged; up to 8 course credits from Asian language classes at the 200-level or higher may be counted towards the minor. Courses taken while studying abroad may be used in the minor only with approval of the Asia-Pacific Studies Chair.

Program Learning Outcomes

Students who complete the Asia-Pacific Minor will be able to:

- Demonstrate basic knowledge of the countries and cultures that make up the Asia-Pacific region.
- Acquire knowledge of the historical complexity of the Asia-Pacific region.
- Develop an understanding of contemporary issues and trends in the Asia-Pacific region.
- Demonstrate an understanding of the research methods and theoretical approaches of a discipline in the humanities and social sciences.
- Formulate well-organized and well-supported arguments.
- Show evidence of critical thinking.

Asia-Pacific Studies: Requirements for the Minor:

Students must take at least 8 upper-division credits.

Take one of the following:

IS 222/HUM 222	Introduction to East Asian Studies	4 credits
HIST 115	East Asian Civilization	4 credits
ANTH 203	Contemporary Pacific Studies	4 credits

Take one of the following:

HIST 414	Pan-Pacific Histories	4 credits
POLS 345	International Political Economy	4 credits
SOC 360	Critical Race Theory	4 credits
SOC 305	Racism and Ethnicity in Hawai'i	4 credits

Take 12 credits from the following (no more than 8 from Asian Language courses at the 200-level or higher may be counted):

ANTH 204 and ANTH 205	Prep Samoa and Travel Samoa	4 credits
OR		
ANTH 304 and ANTH 305	Prep Samoa and Travel Samoa	4 credits
ANTH 203	Contemporary Pacific Studies	4 credits
ARTHI 276	Art & Architecture of Asia	4 credits
CHIN 201	Intermediate Chinese	4 credits
CHIN 202	Intermediate Chinese	4 credits
GSS 211/HUM 211	Travel in India (Prep Course0	2 credits
GSS 310/HUM 310	Travel in India: Gender Society Services	2 credits
IST 222/HUM 222	Introduction to Asian Studies	4 credits
HIST 115	East Asian Civilization	4 credits
HIST 216	History of Modern Japan	4 credits
HIST 217	Making of Modern China	4 credits
HIST 318/IS 318	Business of Capitalism in Japanese Empire	4 credits
HIST 319	Rise and Fall of the Japanese Empire	4 credits
HIST 415	Pan-Pacific Histories	4 credits
HUM 204	Chinese Cultural Study	4 credits
HUM 213	Introduction to Japanese Literature	4 credits
HUM 215	Modernity in Japanese Narrative	4 credits
HUM 351/THEA 351	Traditional Theater of East Asia	4 credits
JAPN 201	Intermediate Japanese	4 credits
JAPN 202	Intermediate Japanese	4 credits
PHIL 305	Asian Philosophy	4 credits
SOC 305	Racism and Ethnicity in Hawai'i	4 credits

The following also may be taken as electives, although no more than 4 credits from these courses may apply to the minor:

ENGL 324	PostCol Lit: Tales of Conquests Retold	4 credits
HIST 333	History of the British Empire	4 credits
IS/HUM 311	Global Skills I: Prepare	2 credits
IS/HUM 312	Global Skills II: Engage	1 credit
POLS 330	National Systems and Global Challenges	4 credits
POLS 331	Modern Dictatorship	4 credits
POLS 340	Security, Rights, and Globalization	4 credits
SOC 360	Critical Race Theory	4 credits

TOTAL: 20 credits

BIOINFORMATICS

Shereen Khoja, Chris Lane, Györgyi Nyerges, Douglas Ryan, Lisa Sardinia, Jon Schnorr

Bioinformatics is the science of storing, extracting, organizing, analyzing, interpreting and using information. The approaches to the discipline of bioinformatics incorporate expertise from the biological sciences, computer science and mathematics. The major in bioinformatics is designed for students interested in molecular biology and genetics, information technologies and computer science. Bioinformaticists are involved in the analysis of the human genome, identification of targets for drug discovery, development of new algorithms and analysis methods, the study of structural and functional relationships, and molecular evolution.

Program Learning Outcomes

In successfully completing a major in bioinformatics, students must demonstrate:

- knowledge and awareness of the basic principles and concepts of biology, computer science and mathematics
- the ability to apply existing software effectively to extract information from large databases and to use this information in computer modeling
- problem-solving skills, including the ability to develop new algorithms and analysis methods
- understanding of the intersection of life and information sciences, the core of shared concepts, language and skills the ability to speak the language of structure-function relationships, information theory, gene expression, and database query

Bioinformatics: Requirements for the Major

Take all of the following:

BIOL 200	Intro Biology: Flow of Energy	4 credits
BIOL 200 L	Intro Biology: Flow of Energy Lab	0 credits
BIOL 201	Intro Biology: Flow of Biology Information	4 credits
BIOL 201 L	Intro Biology: Flow of Biology Information	0 credits
BIOL 312	Genetics & Evolution	4 credits
BIOL 313	Cellular & Molecular Biology	4 credits
BIOL 314	Molecular Genetics Laboratory	2 credits
CHEM 220	General Chemistry I	4 credits
CHEM 230	General Chemistry II	4 credits
CHEM 300	Fundamentals of Organic Chemistry	4 credits
CHEM 380	Fundamentals of Biochemistry	4 credits
CS 130	Introduction to Software Tools	2 credits
CS 150	Introduction to Computer Science I	4 credits
CS 250	Introduction to Computer Science II	4 credits
CS 300	Data Structures	4 credits
MATH 207	General Elementary Statistics	4 credits
BINF 490	Bioinformatics Capstone	2 credits

Take four credits from the following:

CS 380	Algorithm Design and Analysis**	4 credits
CS 445	Introduction to Database Systems	4 credits

Take four credits from the following:

BIOL 360	Selected Topics in Biology*	4 credits
BIOL 444	Evolution	4 credits
BIOL 466	Genome Analysis Workshop	4 credits
CHEM 380	Fundamentals of Biochemistry	4 credits
CS 360	Special Topics*	4 credits

TOTAL: 58 credits

* Require director and instructor consent as topics vary from year to year.

** Requires Math 240 as a prerequisite

COURSES

BINF-275 Internship

See department for details. Independent Study contract required.

BINF-466 Genome Analysis Workshop

The course investigates the genetic information at the gene and genome level. Analysis of the complete genome is an important new tool in understanding the biology of organisms. Students learn to use computer programs to identify and study genes in a bacterial genome. The course is part of a collaboration between JGI (Joint Genome Institute) and colleges nationwide to annotate microbial genomes that provide data to public databases. Prerequisite: BIOL 204 with minimum grade C-. 4 credits.

BINF-475 Internship in Bioinformatics

See department for details. Internship contract required.

BINF-490 Senior Capstone

A capstone experience consisting of a field experience in an industrial or academic setting. Application of theories is emphasized. Arrangements for the course must be completed at least two weeks prior to the term in which the course is taken. The capstone experience must be taken during the senior year. Prerequisite: 16 credits of BIOL courses and 12 credits of CS courses, all with a minimum grade of C-. Instructor's consent required. 2 credits.

BINF-495 Independent Research

See department for details. Independent study contract required.

BIOLOGY

David Scholnick, Chair; Paige Baugher, Lauren Chan, Stacey Halpern, Liesl McCormick, Györgyi Nyerges, Joanne Odden, Lisa Sardinia, Jon Schnorr, Christopher N. Templeton

Biology is in the midst of revolutionary changes that are reshaping how we study and understand life. The Biology Department embraces these changes, which are reflected in our curriculum.

Our mission is to provide the highest quality education to our students so they achieve their greatest potential. We endeavor to give students relevant, authentic experiences and to encourage their development as scientists. We highly value mentoring undergraduate researchers and student involvement in civic engagement and outreach. Although we serve many pre-health professions students, we care deeply about providing a broad biology education in a liberal arts context

Program Learning Outcomes

Our curriculum is guided by these goals:

1. Students will demonstrate deep understanding of five core concepts in biology: evolution; pathways and transformations of energy and matter; information flow, exchange, and storage; structure and function; and biological systems.
2. Students will use the standard skills and methodologies of biology to answer scientific questions.
3. Students will apply the scientific method, reasoning and appropriate mathematics to describe, explain and understand biological systems.
4. Students will use interdisciplinary approaches (applying chemistry, physics, and mathematics to biology) to work on biological problems.
5. Students effectively will read, write, speak and understand scientific material.
6. Students will collaborate and communicate within biology and across disciplines.
7. Students will apply science to issues facing our society.

Students may not receive a degree in both biology and environmental science with a biology emphasis.

Biology: Requirements for the Major

Though not a requirement for a Biology major, it is strongly recommended that Biology majors include CS 130; a statistics course and independent research is highly recommended for students planning to pursue graduate studies in biology.

Take all of the following:

BIOL 200	Intro Biology: Flow of Energy	4 credits	36 credits
BIOL 200 L	Intro Biology: Flow of Energy Lab	0 credits	
BIOL 201	Intro Biology: Flow of Biology Information	4 credits	
BIOL 201 L	Intro Biology: Flow of Biology Information	0 credits	
BIOL 312	Genetics and Evolution	4 credits	
BIOL 313	Cell and Molecular Biology	4 credits	
BIOL 314	Molecular Genetics Lab	2 credits	
BIOL 490	Senior Capstone Experience	2 credits	
BIOL 489	Advanced Research Methods	4 credits	
CHEM 220	General Chemistry I	4 credits	
CHEM 230	General Chemistry II	4 credits	
CHEM 300	Organic Chemistry	4 credits	

Take eight credits from the following:

BIOL 365 & 366	Adv Galapagos and Ecuador		8 credits
BIOL 404	Ecology		
BIOL 415	Principles of Development		
BIOL 420	Vertebrate Zoology		
BIOL 425	Animal Behavior		
BIOL 426	Plant Animal Interactions		
BIOL 435	Animal Communication		
BIOL 444	Evolution		
BIOL 470	Animal Physiology		

Take eight additional upper-division BIOL credits (excluding BIOL 475)

Up to 2 credits of BIOL 495 may be used toward elective credits.

Up to 4 credits of CHEM 380, ENV 325, or ENV 301 may be used toward elective credits.

8 credits

Take one course from each of the following pairs:

PHY 202	Introductory Physics I	4 credits	8 credits
OR			
PHY 232	General Physics I: Workshop Physics I	4 credits	
OR			
PHY 204	Introductory Physics II	4 credits	
OR			
PHY 242	General Physics II: Workshop Physics II	4 credits	

TOTAL:

60 credits

Restrictions: Upper division biology coursework taken during study abroad may be applied to the major but must be approved by the department.

Biology: Requirements for the Minor

BIOL 200	Intro Biology: Flow of Energy	4 credits
BIOL 200 L	Intro Biology: Flow of Energy Lab	0 credits
BIOL 201	Intro Biology: Flow of Biology Information	4 credits
BIOL 201 L	Intro Biology: Flow of Biology Information	0 credits
CHEM 220	General Chemistry I	4 credits
CHEM 230	General Chemistry II	4 credits
Biology electives		12 credits

Three additional upper-division biology classes (excluding BIOL 475, 490 and 495), including at least one upper division lab. Up to 4 credits of CHEM 380, ENV 325, or ENV 301 may be used toward elective credits.

TOTAL: 28 credits

Restrictions: To receive a Biology minor from Pacific University, a student must complete three upper-division courses toward the biology minor on campus.

COURSES

BIOL-145 Marine Biology for Nonscience Majors

An introduction to organisms and processes in the marine environment. Organismal adaptations and interactions of organisms with the environment are stressed. Includes some aspects of environmental and economic issues as they relate to biology of the ocean. Some weekend field trips required. Additional fee required. Does not count toward a Biology major or minor. 4 credits.

BIOL-155 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

BIOL-160 Selected Topics for Non-Science Majors

Study of a particular field of biology selected by the instructor and approved by the Biology department. Lab activities may be a part of the course. This course is designed for non-science majors. Some topics may require the instructor's consent. Refer to the online course schedule to verify if instructor consent is required for the offered topic. May be repeated for credit when topic varies. 2 or 4 credits.

BIOL-165 Natural History Galapagos & Ecuador Prep

Preparation course for a January travel class to explore and study the Galapagos Islands and Ecuador - some of the most biologically diverse regions in the world. Students will study the biodiversity, adaptations, and natural history of species in Galapagos and the Andes cloud forest. Students will read introductory and popular science literature that will introduce them to the biological, ecological, and environmental issues specific to the regions that will be visited in January, and will begin to develop skills in observation and field drawing. Instructor's Consent required. Offered alternate years. 2 credits.

BIOL-166 Natural History Galapagos/Ecuador Travel

Travel class to explore and study the Galapagos Islands and Ecuador - some of the most biologically diverse regions in the world. Students will study the biodiversity, adaptations, and natural history of species in Galapagos and the Andes cloud forest. During the travel course, students will apply knowledge from introductory and popular science literature to experiences with the biological, ecological, and environmental issues of the regions visited, while continuing to develop skills in observation and field drawing. This course has additional fees associated with winter term travel to Galápagos and Ecuador. Prerequisite: BIOL 165. Counts toward core requirement: International Perspectives. Offered alternate years. 2 credits.

BIOL-170 Human Genetics

This course introduces students to the study of inheritance in all of its manifestations, from the distribution of human traits in a family pedigree to the biochemistry of the genetic material in our chromosomes, DNA. The course examines the inheritance of traits in individuals and families, how traits evolve and are maintained in human populations, the molecular basis for those traits, and the Human Genome Project. Does not count toward a Biology major or minor. 4 credits.

BIOL-195 Independent Study

See department for details. Independent study contract required.

BIOL-200 Intro Biology: Flow of Energy

This course will emphasize the flow of energy in biological systems, and integrate across all levels of biological organization. Topics include: macromolecules, thermodynamics and energy, metabolism, photosynthesis and cellular respiration, homeostasis, physiology, ecology and trophic interactions, and ecosystem dynamics. Math placement into Calculus I is required to take this course in the freshman year. Corequisite: BIOL 200L. 4 credits.

BIOL-200L Intro Biology: Flow of Energy Lab

This laboratory will examine concepts from BIOL 200 in a laboratory setting. Corequisite: BIOL 200. 0 credits.

BIOL-201 Intro Biology: Flow of Information

This course explores the flow of information in biological systems, integrating across all levels of biological organization. Topics include: animal behavior, endocrine and nervous systems, signal transduction between and within cells, and the molecular language and processes necessary for storing and transmitting biological information. Information flow between generations will be covered along with mutations, microevolution, and macroevolution. Math placement into Calculus I is required to take this course in the freshman year. Corequisite: BIOL 201L. 4 credits.

BIOL-201L Intro Biology: Flow of Info Lab

This laboratory will examine concepts from BIOL 201 in a laboratory setting. Corequisite: BIOL 201. 0 credits.

BIOL-255 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

BIOL-275 Internship

See department for details. Internship contract required.

BIOL-295 Independent Study

See department for details. Independent study contract required.

BIOL-307 Cancer Biology

An overview of the field of cancer biology with emphasis in the cellular and molecular mechanisms of tumor progression. Topics discussed include environmental carcinogens, current treatments and therapies, disease frequencies and epidemiology, drug discovery and design, and cancer prevention. Prerequisites: BIOL 200 and BIOL 201 with a minimum grade of C-, CHEM 220, and CHEM 230 (may be taken concurrently). 4 credits.

BIOL-308 Microbiology

A study of the structure, biochemistry, physiology, energy generation, genetics and diversity of prokaryotic organisms. Includes a laboratory experience. Prerequisite: BIOL 200 and BIOL 201 with a minimum grade of C-, CHEM 220, and CHEM 230 (may be taken concurrently). 4 credits.

BIOL-312 Genetics and Evolution

Examines the flow of information from within and between cells, organisms, and populations over evolutionary time. Topics will include transmission genetics, molecular genetics, genomics, population genetics, microevolution, and macroevolution. Prerequisites: BIOL 200 and BIOL 201 with a minimum grade of C-, CHEM 220, and CHEM 230 (may be taken concurrently). 4 credits.

BIOL-313 Molecular Biology of the Cell

Explores the molecular aspects of cellular biology. Topics will include molecular and cellular events in eukaryotic cells: membrane dynamics, the endomembrane system, signal transduction, regulation of the cell cycle, intracellular transport, and intercellular adhesion. An understanding of the molecular biology of a cell can be used as a basis for understanding biology at the organismal, population, and ecosystem levels. Prerequisites: BIOL 200 and BIOL 201 with a minimum grade of C-, CHEM 220, and CHEM 230 (may be taken concurrently). 4 credits.

BIOL-314 Molecular Genetics Laboratory

Includes experimentation that utilizes molecular genetics techniques, such as genetic sequencing, bioinformatics, DNA extractions, polymerase chain reaction (PCR), gel electrophoresis, genetic crosses, and microscopy. The hands-on work illustrates principles presented in BIOL 312 and/or BIOL 313 lecture and teaches students elements of experimental design as well as the analysis and presentation of scientific results. Prerequisites: BIOL 200 and BIOL 201 with a minimum grade of C-, CHEM 220, and CHEM 230 (may be taken concurrently). 2 credits.

BIOL-325 Conservation Biology

Examines the historical and ethical background of the conservation movement and trace the development of the science of conservation biology. We will be making connections between society and the natural world, relating human impacts on plants and wildlife to the goals of the practicing conservation biologist. We will learn quantitative methods to determine and predict the status of plant and animal populations. This is a lab/field course with opportunities to learn from conservation efforts around the Portland metropolitan area. Also listed as ENV 325. Prerequisite: BIOL 200 and BIOL 201 with a minimum grade of C-. 4 credits.

BIOL-355 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

BIOL-360 Selected Topics in Biology

Study of a particular field in biology selected by the instructor and approved by the Biology Department. May or may not include a lab. Some topics may require the instructor's consent. Refer to the online course schedule to verify if instructor consent is required for the offered topic. May be repeated for credit when topic varies. Prerequisite: BIOL 312, BIOL 313, BIOL 314. Additional prerequisites may apply depending on the topic. 2-4 credits.

BIOL-365 Adv Nat History Galapagos & Ecuador Prep

Preparation course for a January travel class to explore and study the Galapagos Islands and Ecuador - some of the most biologically diverse regions in the world. Students will study the biodiversity, adaptations, and natural history of species in Galapagos and the Andes cloud forest. During the fall course, students will read both original research articles and popular science literature that will advance their understanding of the biological, ecological, and environmental issues specific to the regions that will be visited in January, and will refine observational skills and develop skills in field drawing. Prerequisite: BIOL 312 and BIOL 314. Instructor's Consent required. Offered alternate years. 2 credits.

BIOL-366 Adv Nat Hist Galapagos/Ecuador Travel

Travel class to explore and study the Galapagos Islands and Ecuador - some of the most biologically diverse regions in the world. Students will study the biodiversity, adaptations, and natural history of species in Galapagos and the Andes cloud forest. During the travel course, students will apply knowledge from original research articles and popular science literature to experiences with the biological, ecological, and environmental issues of the regions visited, while continuing to develop skills in observation and field drawing. This course has additional fees associated with winter term travel to Galapagos and Ecuador. Prerequisite: BIOL 365. Counts toward core requirement: International Perspectives. Offered alternate years. 2 credits.

BIOL-385 Junior Seminar

The Junior Seminar is designed to introduce majors to the primary biological literature, improve their oral communication skills, and highlight recent advances in the field. Students will read, present and discuss primary research papers in the biological sciences. Topics will vary each semester but have an interdisciplinary theme. Prerequisites: Junior standing or above (60 or more completed credits), one upper division BIOL course (4 credits) with a minimum grade of C- and declared Biology major. 1 credit.

BIOL-395 Independent Study

See department for details. Independent study contract required.

BIOL-404 Ecology

A study of the relationships between organisms and their environment. Major topics include population dynamics, species interactions, community structure/function, and ecosystem ecology. This course introduces quantitative tools used by ecologists, and explores many applications of ecological principles to conservation and society. Weekend field trips usually part of the course. Includes a laboratory experience. Prerequisite: BIOL 312 and BIOL 314. 4 credits.

BIOL-405 Immunology

A study of the mammalian immune system covering the molecules and mechanisms used to fight infection. The development of B and T cells and their role in the human immune response will be emphasized. The relationship of the immune system to human biology will also be covered, for example infectious disease, vaccines, allergies, and autoimmune disorders. Prerequisite: BIOL 312, BIOL 313, and BIOL 314. 4 credits.

BIOL-415 Principles of Development

A study of molecular and cellular mechanisms underlying development of selected invertebrates and vertebrates, from fertilization through early organ formation. Gene regulation and experimental approaches are emphasized. Includes a laboratory experience. Prerequisite: BIOL 312, BIOL 313, and BIOL 314. 4 Credits.

BIOL-420 Vertebrate Zoology

A study of vertebrate organismal biology, with an emphasis on trends in vertebrate evolution. Topics include the origin of major groups, morphology and physiology, life history, locomotion, feeding, behavior, and conservation. Includes laboratory experience. Some weekend field trips required. Prerequisite: BIOL 312, BIOL 313, and BIOL 314. 4 credits.

BIOL-425 Animal Behavior

A study of the ecology and evolution of animal behavior, including such topics as foraging strategies, predator-prey interactions, contests, mating systems, sexual selection, communication and the application of animal behavior to conservation. Mechanisms of animal behavior (including endocrinology, genetics and neurobiology) are also discussed. Includes a laboratory experience. Prerequisites: BIOL 312, BIOL 313, and BIOL 314. 4 credits.

BIOL-426 Plant Animal Interactions

Plant-animal interactions are fundamentally important to the ecology and evolution of natural ecosystems, to conservation (e.g., management of invasive species), and to agriculture and food production. In this class, we will study the major antagonistic and mutualistic plant-animal interactions, including pollination, herbivory, fruit and seed dispersal, and plant protection mutualisms. Using these topics, we will explore basic and applied concepts related to ecology, evolution, and plant biology. Readings from the primary literature will be an integral component of the course, while labs will focus on authentic investigations of topics such as plant defenses, associational effects, pollination biology, or seed dispersal. Prerequisites: BIOL 312, BIOL 313, and BIOL 314. Offered alternate years. 4 credits.

BIOL-435 Animal Communication

An investigation into the biology underlying different modes of animal communication, including visual, acoustic, chemical, and tactile signaling behavior. The course will focus on the evolutionary and ecological significance of animal signals and discuss how communication is controlled by different mechanisms (endocrinology, genetics, neuroscience) and how these behaviors are impacted by anthropogenic interactions. Includes a laboratory experience. Prerequisite: BIOL 312, BIOL 313, and BIOL 314. 4 credits.

BIOL-444 Evolution

Examines evidence for evolution and explanations for patterns of diversity and the apparent fit of organisms to the environment. Topics include the basis for evolutionary change, population level processes, natural selection, sexual selection, speciation mechanisms, and long-term macroevolutionary patterns. Includes a laboratory experience. Prerequisite: BIOL 312, BIOL 313, and BIOL 314. 4 credits.

BIOL-445 Marine Biology

A study of life and processes in the marine environment. Organismal adaptations and interactions of organisms with the environment are stressed, along with field trips to the marine intertidal zones. Includes some aspects of environmental issues as they relate to biology of the ocean. Some weekend field trips required. Includes a laboratory experience. Prerequisite: BIOL 312, BIOL 313, and BIOL 314. 4 Credits.

BIOL-455 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

BIOL-466 Genome Analysis Workshop

A study of the structure and function of the genome. Students will use various software tools to identify genes in a bacterial genome sequence and to study the gene products. Microbial metagenomes from environmental samples will be analyzed. Includes a laboratory experience. Prerequisite: BIOL 312, BIOL 313, and BIOL 314. 4 credits.

BIOL-470 Animal Physiology

The study of physiological function (molecular, cellular, and organ systems) in animals. The focus will be on the diversity of mechanisms used by animals for: water and solute regulation, gas exchange and transport, temperature regulation and tolerance, circulation, digestion, metabolism, excretion, neural control and integration, and locomotion. Includes a laboratory experience. Prerequisite: BIOL 312, BIOL 313, and BIOL 314. 4 credits.

BIOL-475 Internship

See department for details. Internship contract required.

BIOL-489 Advanced Research Methods

Teams of students carry out original research in collaboration with a member of the Biology faculty. Course involves critically reading, analyzing, and synthesizing primary literature in the research area; generating a novel data set (via experiments, studies, or data mining of large public data sets); and analyzing and interpreting the data. Research area will vary, and depends on faculty expertise. Prerequisites: BIOL 312, BIOL 313, BIOL 314, 8 additional upper division BIOL credits and declared biology major. Instructor's Consent required. 2 or 4 credits.

BIOL-490 Senior Capstone Experience

Designed for senior Biology majors. Students will complete a capstone paper and present their capstone project publicly. The course requires that students integrate information from the primary and secondary biological literature as well as from their knowledge of biology. All topics must be approved by the Biology Department. Prerequisite: Senior standing, BIOL 385 or BIOL 489 (may be taken concurrently). Must be a declared BIOL major. Pass/No Pass grading only when taken for 0 credits. 2 credits.

BIOL-495 Research

Faculty supervised, student-conducted, individual research project. Prerequisite: BIOL 312, BIOL 313, and BIOL 314. Instructor's consent required. May be repeated for credit. 1-6 credits.

CHEMISTRY

David Cordes, Chair; Dawn Bregel, Jeannine Chan, Roxana Ciochina, Joel Gohdes, W. Paige Hall Osberg, Kevin E. Johnson

Our mission is to enhance the intellectual and personal development of our students within an undergraduate liberal arts setting. We specifically develop the understanding of both chemistry majors and non-majors of the theoretical and experimental background in chemistry necessary for their pursuit of careers in research, industry, education, the health professions and other fields. Our curriculum is designed to foster critical thinking, creativity, communication skills, discipline and the ability to work closely with others so solve complex problems.

Program Learning Outcomes

By the end of their studies, graduating majors will:

- understand the relationships between atomic and molecular structure and macroscopic properties seen in the natural world
- have a working knowledge of the basic areas of chemistry (inorganic, organic, biochemical, physical and analytical chemistry) and be able to apply this knowledge to analyze data and scientific arguments and to formulate and carry out strategies for solving scientific problems
- synthesize and apply concepts from multiple sub-areas of chemistry,
- be proficient in basic laboratory skills (e.g., preparing solutions, synthesizing organic and inorganic materials, performing chemical and instrumental analyses and measurements)
- have developed good laboratory practice such as properly documenting laboratory work, using proper safety procedures and identifying and appropriately dealing with hazardous waste
- have an understanding of principles and applications of modern instrumentation, computation, experimental design and data analysis
- have developed good scientific communication, including writing, oral communication and presentation skills
- have developed the ability to locate, read, understand and critically evaluate the scientific literature
- have developed experience working with others as part of a team
- have conducted an individual research project within the University or in another appropriate setting

Chemistry: Requirements for the Major

CHEM 220-230	General Chemistry I-II	8 credits
CHEM 300	Fundamentals of Organic Chemistry	4 credits
CHEM 330	Fundamentals of Inorganic Chemistry	4 credits
CHEM 340-341	Quantitative Analysis	4 credits
CHEM 370	Fundamentals of Physical Chemistry	4 credits
CHEM 380	Fundamentals of Biochemistry	4 credits
CHEM 396	Chemical Literacy	1 credit
CHEM 392	Integrated Lab	1 credit
CHEM 486	Capstone Research	1-2 credits
CHEM 489 or 499	Capstone Project or Capstone Thesis	1-2 credits

Chemistry electives*

CHEM 400, 437, 438, 444, 450, 460, 472, 474, 480 or 481	8 credits
CHEM/ENV 361*	

Ancillary Requirements

MATH 226-227	Calculus I-II	8 credits
Physics - one year with laboratory (PHY 232-242 recommended)		8 credits

TOTAL: 56-58 Credits

*Up to 2 credits of CHEM 495 Research or 4 credits of appropriate upper-division electives from chemistry or another department may be substituted by petition to the chemistry department in advance.

At least six credits of upper-division chemistry, including at least one course with a laboratory, must be taken at Pacific University.

Chemistry: Requirements for the Minor

CHEM 220-230	General Chemistry I-II	8 credits
CHEM 300	Fundamentals of Organic Chemistry	4 credits
CHEM 340	Quantitative Analysis	2 credits
CHEM 341	Quantitative Analysis Lab	2 credits
CHEM 385	Seminar	1 credit

Upper-division elective courses 8 credits
(at least 4 credits must be CHEM 330, 370 or 380)

TOTAL: 25 credits

COURSES

CHEM-110 Chemistry & Your Environment

An introductory chemistry course for students who do not plan to take additional chemistry. Basic principles of chemistry are developed and used to explain phenomena of significance to our lives. Topics include environmental issues such as atmospheric and water chemistry, nuclear power, and fuels. 2 credits.

CHEM-155 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

CHEM-195 Independent Study

See department for details. Independent study contract required.

CHEM-220 General Chemistry I

The first of a two semester sequence which introduces the basic concepts of chemistry by addressing: atomic and molecular structure, chemical and physical properties of materials, nomenclature, chemical reactions, stoichiometry, gas laws, and thermochemistry. These topics are studied in the context of inorganic and organic chemistry. Includes laboratory. Prerequisite: MATH 122 or placement. Corequisite: CHEM 220L. 4 credits.

CHEM-220L General Chemistry I Lab

Laboratory to accompany General Chemistry I lecture. Corequisite: CHEM 220. 0 credits.

CHEM-230 General Chemistry II

The second of a two semester sequence continuing from CHEM 220. Topics include: kinetics, equilibrium, thermodynamics, electrochemistry and special topics such as nuclear chemistry. General Chemistry II Laboratory is a corequisite. Prerequisite: CHEM 220 with a minimum grade of C- and MATH 125 or MATH 226 with a minimum grade of C-. Corequisite: CHEM 230L or CHEM 233. 4 credits.

CHEM-230L General Chemistry II Laboratory

Laboratory to accompany General Chemistry II lecture. Corequisite: CHEM 230. 0 credits.

CHEM-233 General Chemistry II Lab & Project

Laboratory to accompany General Chemistry II lecture in place of CHEM 230L. Includes an introduction to research design and methods in chemistry and scientific writing. Prerequisite: CHEM 220 with a minimum grade of B. Corequisite: CHEM 230. 1 credit.

CHEM-255 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

CHEM-275 Internship

See department for details. Internship contract required.

CHEM-295 Independent Project

Work in chemistry and introduction to chemistry research on a topic of mutual interest to the student and a faculty member. Instructor's consent required. May be repeated for credit or continued as CHEM 495.

CHEM-300 Fundamentals of Organic Chemistry

This course is an introduction to the primary topics of organic chemistry, largely organized around the study of the major functional groups. Topics include: structural analysis of simple carbon compounds, organic chemical nomenclature, survey of functional group chemistry (including carbonyl groups), elementary polar reaction mechanisms, and stereochemistry. Requires concurrent enrollment in a corresponding laboratory section. Prerequisite: CHEM 230 with a minimum grade of C-. Corequisite: CHEM 300L. 4 credits.

CHEM-300L Fundamentals of Organic Chemistry Lab

Laboratory to accompany Fundamentals of Organic Chemistry lecture. Corequisite: CHEM 300. 0 credits.

CHEM-330 Fundamentals of Inorganic Chemistry

An introduction to the primary topics of inorganic chemistry: atomic and molecular structure including molecular orbital theory and molecular symmetry, solid state chemistry, coordination compounds, organometallics, catalysis and bioinorganic chemistry. Physical methods appropriate to the study of inorganic chemistry will also be discussed. Prerequisite: CHEM 230 with a minimum grade of C-. Concurrent enrollment in CHEM 300 is highly recommended. 4 credits.

CHEM-340 Quantitative Analysis

An introduction to the theories and principles of volumetric, gravimetric, and colorimetric methods of analysis. Prerequisite: Sophomore standing or above (30 or more completed credits) and CHEM 230 with a minimum grade of C-. 2 credits.

CHEM-341 Quantitative Analysis Lab

A laboratory course to accompany and give practical illustration to the principles covered in CHEM 340, which is a corequisite. Prerequisite: Sophomore standing or above (30 or more completed credits). Corequisite: CHEM 340. CHEM 300 is highly recommended. 2 credits.

CHEM-355 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

CHEM-361 Lab Techniques Env Toxicology & Chem

Changes in the environment are ultimately the result of chemical processes. This laboratory course examines our understanding of chemical change in various environmental compartments from a practical perspective. Methodology for monitoring and modeling these systems will be utilized, including standard toxicity testing, use of biomarkers, tissue, air, water and soil analyses, and molecular techniques. Prerequisite: CHEM 300. 1 credit.

CHEM-370 Fundamentals of Physical Chemistry

An introduction to the primary topics of physical chemistry: chemical thermodynamics and equilibrium, chemical kinetics, molecular structure, and molecular spectroscopy. Includes laboratory applications of the principles of physical chemistry. Prerequisite: CHEM 230; PHY 202 or PHY 232; and MATH 227, each with a minimum grade of C-. 4 credits.

CHEM-380 Fundamentals of Biochemistry

An introduction to the chemistry of biological molecules with investigation of the structure and function of biological molecules in enzyme action, metabolism, energetics, and the flow of genetic information. Prerequisite: CHEM 300 with a minimum grade of C-. BIOL 204 is highly recommended. 4 credits.

CHEM-385 Seminar

Participation in discussions about recent advances in the field of chemistry. Prerequisite: Sophomore standing or above (30 or more completed credits) and CHEM 230 with a minimum grade of C-. May be repeated once for credit. Pass/No Pass. 1 credit.

CHEM-392 Advanced Integrated Laboratory

An advanced laboratory experience for upper division chemistry majors. The course will focus on one area of chemistry but will incorporate ideas and techniques from several of the sub-disciplines. A course, for example, might be focused on synthetic inorganic chemistry but also incorporate organic synthesis, catalysis, kinetic measurements and spectroscopic analysis. Prerequisite: Three foundational courses from CHEM 300, CHEM 330, CHEM 341, CHEM 370, and CHEM 380 each with a minimum grade of C-. 1 credit.

CHEM-395 Independent Study

See department for details. Independent study contract required.

CHEM-396 Chemical Literacy

This course is a formal introduction to the primary and secondary chemical literature and serves to prepare students with the literature skills necessary to complete their senior capstone project. As such, it is normally taken by students in the spring of their junior year and is a prerequisite of the capstone courses. Students wishing to travel abroad that semester will need to consult with the department to arrange an alternative. In the course, students will practice searching, reading and evaluating the chemical literature. They will also learn writing skills relevant to scientific papers. In this context, students will be instructed in ethics and pathways beyond Pacific. Prerequisite: Declared chemistry major. 1 credit.

CHEM-400 Advanced Organic Chemistry

This course is an exploration of advanced topics in organic chemistry. Topics include spectroscopy and structural determination; reaction mechanisms associated with aromatic, pericyclic, and radical reactions; organic synthetic methods; polymer chemistry, and a survey of biomolecules. Requires concurrent enrollment in a corresponding laboratory section. Prerequisite: CHEM 300 with a minimum grade of C. Corequisite: CHEM 400L. 4 credits.

CHEM-400L Advanced Organic Chemistry Laboratory

Laboratory to accompany Advanced Organic Chemistry lecture. Corequisite: CHEM 400. 0 credits.

CHEM-438 Bioinorganic Chemistry

This course explores the role of metals in biological systems. Topics include a review of basic coordination chemistry and biochemistry, metal uptake and transport, metallo-protein structure and function, metal complexes as therapeutics and imaging agents, and the physical methods used to study these topics. Analysis of papers from the primary literature will be included. Prerequisite: CHEM 330 and CHEM 380, both with a minimum grade of C. 2 credits.

CHEM-444 Instrumental Methods of Analysis

A three hour lecture and three hour laboratory for the introduction to the principles of instrumental methods of chemical analysis. Topics include data handling, spectrometric, chromatographic and electrochemical methods of analysis. Prerequisite: CHEM 340 and CHEM 341 both with a minimum grade of C; and PHY 202 or PHY 242 with a minimum grade of C-. 4 credits.

CHEM-450 Advanced Topics

A lecture or laboratory course concentrating on a specific topic in chemistry at the advanced level. For example mass spectrometry, high field nuclear magnetic resonance, or pharmacology. Prerequisite: Sophomore standing or above; additional prerequisites may apply depending on the topic. May be repeated for credit. 1-2 credits.

CHEM-455 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

CHEM-460 Environmental Chemistry

This course explores chemical processes in the environment. Students will examine our understanding of chemical change in the atmosphere, groundwater, and various aquatic environments from both a theoretical and practical perspective. Prerequisite: CHEM 300 with a minimum grade of C; CHEM 340 is recommended. 2 credits.

CHEM-472 Chemical Thermodynamics & Kinetics

An advanced physical chemistry course focusing on chemical thermodynamics and kinetics. The study of thermodynamics will apply mathematical models of energy relationships to the understanding of chemical equilibrium. The subject of statistical thermodynamics will be introduced. The study of kinetics will include a survey of experimental techniques used to quantify the rates of chemical reactions, as well as a study of the molecular models of chemical reactions, including reaction mechanisms and reaction theories. The course includes a laboratory component to complement the in-class work. Prerequisite: CHEM 370 with a minimum grade of C. 2 credits.

CHEM-474 Chem Quantum Mechanics & Spectroscopy

An advanced physical chemistry course focusing on quantum mechanics and its applications toward chemical spectroscopy. The study of quantum mechanics will apply quantum principles and mathematical methods to fundamental chemical systems: the atom, diatomic and polyatomic molecules. Molecular electronic structure and its applications to predict molecular properties will be emphasized. Electronic structure computational methods will be introduced. An understanding of quantum effects in molecules will inform the study molecular spectroscopy techniques. Spectroscopic techniques covered include rotational, vibrational, electronic, and magnetic methods. The course includes a laboratory component to complement the in-class work. Prerequisite: CHEM 370 with a minimum grade of C. 2 credits.

CHEM-475 Internship

See department for details. Internship contract required. Pass/No Pass.

CHEM-480 Advanced Biochemistry

This course will further explore the metabolism and structure and function of biological molecules and will continue to emphasize major biochemical concepts developed in CHEM 380. Prerequisite: CHEM 380 with a minimum grade of C. 2 credits.

CHEM-481 Biochemistry Laboratory

A laboratory course to introduce standard biochemical techniques including protein purification, execution of enzyme assays, SDS-PAGE, and western blots. Emphasis will be placed on experimental design, data acquisition, and data interpretation. Prerequisite: Sophomore standing or above (30 or more completed credits) and CHEM 380 with a minimum grade of C-. Offered Winter. 1 credit.

CHEM-486 Capstone Research

Students begin their senior capstone research with a faculty mentor. Topics should be selected in consultation with the mentor and should be consistent with the goals of the final capstone course, either Capstone: Project or Capstone: Thesis. Students wishing to continue on to CHEM 499, Capstone: Thesis, should enroll in 2 credits. Regular attendance at department colloquia required. Prerequisite: CHEM 396. Instructor's consent required. 1-2 credits.

CHEM-489 Capstone: Project

This course is a culmination of the work started in CHEM 486 Capstone Research. Examples of acceptable projects include: a focused review of the literature that results in an original interpretation or novel application, a pedagogical project for students interested in pursuing a career in teaching, an internship at an industrial or government laboratory, and a community service project which uses innovative application of chemical principles and technology. Students will complete a project paper and make an oral presentation based upon work completed the previous semester. Regular attendance and presentation at department colloquia is required. Prerequisite: CHEM 486 with a minimum grade of C. Instructor consent required. Offered Spring semester. 1 credit.

CHEM-495 Research

Independent laboratory studies or theoretical studies on projects of mutual interest to the student and faculty. Instructor's consent required. May be repeated for credit for continuing or new projects.

CHEM-499 Capstone: Thesis

This course is a culmination of the work started in CHEM 486 Capstone Research. Students electing to do a thesis will engage in a substantial research project that will involve an investigation of the scientific literature and original research on a current topic in chemistry. Presentation of the thesis work at a department colloquium and for senior presentation day is required. Regular attendance and participation at department colloquia is required. Prerequisite: 2 credits of CHEM 486 with a minimum grade of C. Instructor's consent required. Offered Spring semester. 2 credits.

CIVIC ENGAGEMENT

Stephanie Stokamer, Director, Center for Civic Engagement
Bevin McCarthy, Assistant Director

COURSES

CIV-105 Introduction to Civic Engagement

Provides students with the opportunity to integrate academic concepts with learning from a civic engagement experience while contributing to the betterment of society or the environment. May be repeated once for credit. Counts toward core requirement: Civic Engagement. 2 credits.

CIV-109 Civic Engagement Project Preparation

Civic engagement projects combine academic learning with action (such as service, advocacy, awareness-raising, community-based research, campaigning, or activism) to address a significant social or environmental issue in the community (e.g. immigration, education, pollution, injustice, etc.). Students design their own projects, which entail approximately 40 hours of action and associated academic work sponsored by a faculty member. CIV 109 is the first semester of a two-semester sequence and must be taken in conjunction with CIV 110 or CIV 111 in order to fulfill the CE Cornerstone. Project proposal forms are available from the Center for Civic Engagement and must be submitted to the Registrar with approval signatures. Instructor's consent required. Pass/No Pass. 0 credit.

CIV-110 Civic Engagement Project

Civic engagement projects combine academic learning with action (such as service, advocacy, awareness-raising, community-based research, campaigning, or activism) to address a significant social or environmental issue in the community (e.g. immigration, education, pollution, injustice, etc.). Students design their own projects, which entail approximately 40 hours of action and associated academic work sponsored by a faculty member. For projects spanning more than one semester, students must take CIV 109 as the first semester of a two-semester sequence in conjunction with CIV 110. Project proposal forms are available from the Center for Civic Engagement and must be submitted to the Registrar with approval signatures. Pass/No Pass. 0-1 credit.

CIV-111 Civic Engagement & Diversity Project

Civic engagement projects combine academic learning with action (such as service, advocacy, awareness-raising, community-based research, campaigning, or activism) to address a significant social or environmental issue in the community (e.g. immigration, education, environmental justice, etc.). CIV 111 students design their own projects, which entail approximately 40 hours of action, in a context that also provides in-depth experiences with diversity, and complete associated academic work sponsored by a faculty member. For projects spanning more than one semester, students must take CIV 109 as the first semester of a two-semester sequence in conjunction with CIV 111. Project proposal forms are available from the Center for Civic Engagement and must be submitted to the Registrar with approval signatures. 2 credits.

CIV-140 College 3D

Students in this course will examine the systems, policies, and supports that facilitate college success. By understanding their own skills, strengths, and leadership potential in the college context, students will work with diverse children to promote college awareness from an early age. Students will learn from guest instructors about topics such as child development, behavior management, diversity, college planning, and related issues. Students will work with school and campus staff to coordinate visits and plan activities. Students must be available for seminar sessions and on scheduled visit days as coordinated within the group. Counts toward core requirement: Civic Engagement. 2 credits.

CIV-212 Civically Engaged Travel

In this short-term travel immersion experience, students will explore a community through the lens of specific social and/or environmental issues it faces, and address those issues with individual and collective action. Through academic, experiential, and reflective components, students will critically examine existing responses to community problems and formulate their own responses. 40 hours of service and/or advocacy (over 1-3 weeks), preparatory sessions prior to departure, and wrap-up sessions upon return are required. Issues addressed vary and additional fees may be required; see current course list for details. Instructor's consent required. Counts toward core requirement: Civic Engagement. May be repeated for credit with different trips. 2 credits.

CIV-227 Action for Affordable Housing

This course will explore the ways in which each of us can work toward fair and affordable housing. Students will learn about social, cultural, political, and environmental issues that shape our housing system. Students will also take action to work toward affordable housing through field site experiences (such as helping to build homes, shelter those without housing, or housing advocacy). Time outside of scheduled course meetings is required for the civic engagement experiences in this course. Please see instructor for details about the nature and logistics of the civic engagement component. Counts toward core requirement: Civic Engagement. 2 credits.

CIV-233 Healthy Communities

In this course students will work with community groups to both learn about and provide outreach on health-related topics determined by the community. Students will research these health-related topics, bring their existing knowledge and resources to begin addressing these issues, and build skills in critically reading health information. Students will also have an opportunity to learn about health issues directly from community members. With this exchange of knowledge about health, students will be learning the process of community-based education and examining the roles of expert and layman in health education. In addition, students will conduct an assessment of their work. Counts toward core requirement: Civic Engagement. 2 credits.

CIV-240 Food for Thought & Action

Students in this class will explore various topics related to our food system (such as organic/industrial farming, laws governing ingredients/portions, labels, obesity, food insecurity, ethical eating, etc.), and the relationship between these issues, civic engagement, and personal food choices. Students will learn about ways to take action in the food system and the work that individuals, non-profit organizations, governments, and businesses are already doing to shape change. The class will involve field trips to food-related organizations and the Pacific University B Street farm. Physical outdoor work and additional civic engagement time outside of class are required. Counts toward core requirement: Civic Engagement. 2 credits.

CIV-255 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

CIV-305 Advanced Civic Engagement

This seminar seeks to build on the mature work and insights of a variety of student placement sights, growing directly from their major course work and a well-considered personal inventory. The seminar is integrative of a wide variety of one's educational experiences at Pacific. Students will apply their academic and personal skills directly into a service-learning site placement, seeking to contribute both to the site and the people there as well as to augment their grasp of the applied knowledge from the chosen major. Prerequisite: CIV 105. Counts toward core requirement: Civic Engagement. May be repeated once for credit. 2 credits.

CIV-315 Civic Engagement Mentoring

This course will provide the skills and knowledge for students who are already experienced in civic engagement to take the next step to mentor students who are entering this process. Students in PSJ 315 will meet with the instructor to learn how to assist other students with identifying areas of interest in civic engagement, framing their intended work within the Civic Engagement guidelines, identifying potential sites, mentoring and problem-solving techniques,

reflection activities, and assisting mentees with the final product of their civic engagement experience. Students may also assist faculty in Civic Engagement courses or take leadership in Civic Engagement programs. Prerequisite: one Civic Engagement designated course and attendance at a pre-semester workshop. Instructor's consent required. Counts toward core requirement: Civic Engagement. May be repeated once for credit. 2 credits.

CIV-317 Grant Writing & Non-Profit Fundraising

Social activists, non-profit leaders, educators and many other professionals need effective grant writing skills in order to secure competitive funding from government agencies and private foundations. Writing a successful grant proposal requires writing proficiency, strong research skills, creativity, and organizational ability. This course provides students with the background necessary to develop a strong case statement, an essential component of a competitive funding proposal. Working with community partners, students in this project-based course will create a submittable case statement that can be utilized in multiple grant proposals. Topics covered include: researching grant opportunities, writing the proposal, budget development, and professional ethics. Prerequisite: ENGW 201, ENGW 202, or ENGW 203 with a minimum grade of C-. Counts toward core requirement: Civic Engagement. 2 credits.

CIV-330 Advanced Peer Health Education

This course provides experiential learning opportunities for students in their role as peer health educators. Students will continue developing knowledge and skills requisite to providing individual and community-based peer health education, fostering a healthy campus culture, and empowering positive change. Emphasis will be placed on the application of health education models of individual and community behavior change, communication and conflict resolution skills, providing culturally sensitive and relevant education, crisis recognition and strategies for providing appropriate referrals. Students will build leadership, group facilitation, and presentation skills throughout the course. Prerequisite: PH/SOCWK 225. Counts toward core requirement: Civic Engagement. May be repeated once for credit. 2 credits.

CIV-355 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

CIV-395 Independent Study

See department for details. Independent study contract required.

COMMUNICATION DESIGN

Mike Geraci

The communication design minor centers upon the design process and teaches students how design thinking and practice can be used as an important tool for communicating scholarly, creative, and research outcomes across a range of media. This minor adds value to students' primary academic pursuits across multiple disciplines by giving them the ability to produce rich visual communications for print and electronic media — a valuable skill in today's information-oriented culture.

This minor serves students across majors who have an interest in connecting the theories and practices of visual design, computer graphics, and digital media production to their primary area of academic study and research with the intent of enhancing the quality of the communications related to that work.

Program Learning Outcomes

Upon successfully completing the communication design minor students will:

- Apply the fundamental principles of visual design to their projects in a way that enhances its communicative potential
- Exhibit a thoughtful application of color and typographic design to print and electronic communications
- Contribute effectively to a team or organization where the planning, design, and production of visual communications are key activities and integral parts of organizational strategy
- Be capable of explaining how design aids viewers in extracting meaning from designed elements
- Be more thoughtful and creative with all of their personal and professional communications
- Represent relationships, patterns and results in qualitative and quantitative data sets accurately and accessibly for narrow and broad audiences alike
- Communicate narratives, concepts, identities, and emotions across a variety of media

Communication Design: Requirements for the Minor

MEDA 109/ARTST 109	Introduction to Communication Design	2 credits
ARTST 210	Observational and Expressive Drawing I	4 credits
ARTST 119	Introduction to Digital Imaging	2 credits
OR		
MEDA 122/CS 122	Introduction to Digital Media	2 credits
ARTST 218	Digital Illustration I	4 credits
MEDA 319	Information Design	4 credits
MEDA 363	Publication Editing and Design	4 credits
OR		
MEDA 305	Designing for Electronic Media	4 credits
MEDA 475	Internship	2 credits
OR		
MEDA 460	Design Workshop	2 credits

TOTAL: 22 credits

COMPARATIVE RELIGION

Jaye Cee Whitehead, Chair; Chuck Currie, Daniel Eisen, Aaron Greer, Adam Rafalovich

The Department of Sociology, Anthropology, and Social Work offers the following programs: a major in anthropology-sociology; a major in sociology; a major in social work; and minors in sociology, anthropology, and comparative religion. The program in comparative religion offers an interdisciplinary minor, which strives to enhance knowledge of religious traditions and histories and to teach the skills necessary for the analysis of religion. The goal of the minor is to explore religion as an important dimension of personal meaning, culture, social institutions, and social structure.

Program Learning Outcomes

Will demonstrate an understanding of the beliefs, rituals, texts and figures related to a variety of religious traditions.

- Will demonstrate understanding of the basic teachings and practices of major religious traditions and will be able to compare and contrast principle similarities and differences between them.
- Will demonstrate understanding of how religion informs and is informed by other dimensions of human experience and knowledge, such as gender, race, politics.
- Will demonstrate understanding of how religions are used to both support and critique social structures and institutions.
- Will demonstrate an ability to read, analyze and interpret materials and texts related to the study of the world's religions.

Comparative Religion: Requirements for the Minor

The comparative religion minor must complete the following core courses with a grade of C- or better and maintain a 2.0 average in the minor.

REL 140/ANTH 140	Introduction to Comparative Religion	4 credits
PHIL 309	Philosophy of Religion	4 credits
Three additional courses with a REL prefix, or from the following list of electives (additional options to satisfy electives accepted by department approval). At least 4 elective credits must be 300 or 400-level.		
ANTH 340	Symbolism, Myth and Ritual	4 credits
SOC 313	Sociology of Religion	4 credits
HIST 113	Islamic Middle East	4 credits
HIST 301	The Medieval World	4 credits
HIST 305	History of Magic and Witchcraft	4 credits
PHIL 206	Medieval Philosophy	4 credits
ARTHI 270	Western Art I	4 credits
ARTHI 271	Western Art II	4 credits
REL 240/ANTH 240	Topics in Comparative Religion	4 credits
MUS/REL 341	Music in World Religions	4 credits

TOTAL: 20 credits

COURSES

REL-140 Introduction to Comparative Religions

Comparative study of major world and selected regional religions with an emphasis on the analysis of beliefs, rituals, symbolism and social organization. Also listed as ANTH 140. Counts toward core requirement: Social Sciences (2010 catalog), Diverse Perspectives, and International Perspective. 4 credits.

REL-211 Religion & Politics

Historical and conceptual survey of the relationship between political action and religious belief with primary emphasis on the variety of political/religious interactions across the ideological spectrum in the United States but also including a survey of religion and politics in the Muslim world as a secondary emphasis. Also listed as POLS 211. 4 credits.

REL-240 Topics in Comparative Religion

A class on topics of current interest in comparative religions. See department for current course description. Also listed as ANTH 240. Counts toward core requirement: Social Sciences (2010 catalog), Diverse Perspectives, and/or International Perspectives. May be repeated for credit. 4 credits.

REL-255 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

REL-275 Internship

See department for details. Internship contract required. 1-4 credits.

REL-317 The Bible in Historical Context

How did what we now know as "The Bible" come to be? Some traditions argue that the Bible is the literal word of God, but over the past two centuries a growing consensus has emerged among biblical historians that the scriptures evolved from oral traditions to the written word and were rewritten and reshaped as time went on. This course will expose students to a variety of historical, critical methods for understanding the Bible and for how the debates over its origins impact the social fabric of America today. Prerequisite: ANTH 140 or REL 140. Counts toward core requirement: Humanities. 4 credits.

REL-341 Music in World Religions

This course will explore the use of music as an important expression of spiritual engagement. Students will engage in an examination of the various liturgical and musical practices found in five primary world religions including: Christianity, Judaism, Islam, Hinduism and Buddhism. The course will examine how music is used to enhance liturgy, "engage the mind and move the heart" of participants in worship. ENGW 201 and a basic ability to follow musical notation recommended. Also listed as MUS 341. Counts toward core requirement: International Perspectives. 4 credits.

REL-350 Religion & Social Health Policy

Introduces students to the ways in which religious traditions impact public health policies, mostly within the context of the United States. Students will become more familiar with public health as a concept and will review theological and policy statements on public health issues, mostly within the Abrahamic faith traditions (Christianity, Judaism, and Islam), which display a remarkable diversity of thought. Also listed as PH 350. Prerequisite: ANTH 140, REL 140, or PH 101. 2 credits.

REL-355 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

REL-395 Independent Study

See department for details. Independent study contract required.

COMPUTER SCIENCE

Ian Besse, Chair; Michael Bordman, Shereen Khoja, Douglas Ryan, Chadd Williams

The Department of Mathematics and Computer Science offers majors and minors in both Computer Science and Mathematics.

The computer science program at Pacific University is characterized by small classes, close interaction with the faculty, and a deep yet broad curriculum rarely encountered at a small university. To prepare students for a discipline that is constantly changing, the curriculum integrates a variety of programming languages in a manner that emphasizes a thorough understanding of language structure. The student experience culminates with a two-semester software engineering capstone sequence that results in a substantial piece of original software. The confidence and knowledge gained from the program allows each student to pursue either a graduate education in computer science or immediate employment with such industry leaders as Intel, Microsoft and Google.

The computer science program maintains common goals for all of its students (majors, minors, and others). Students in our courses learn strategies for abstract problem solving, gain a basic understanding of computers and the broad implications of their use and have the opportunity to hone their computational skills.

Program Learning Outcomes

- Demonstrate a fundamental understanding of computation and programming.
- Apply strategies for abstract problem solving
- Discuss the theoretical basis of the mathematics and symbolic concepts that underlie computing.
- Apply knowledge through the design and implementation of a large scale computer application.
- Be able to communicate in a collaborative environment, present ideas, and document work at all stages of software development.
- Identify the skills necessary to become a lifelong learner in the rapidly changing field of Computer Science.

Computer Science: Requirements for the Major

MATH 226	Calculus I	4 credits
MATH 240	Discrete Mathematics	4 credits
CS 150	Introduction to Computer Science I	4 credits
CS 250	Introduction to Computer Science II	4 credits
CS 260	Introduction to Java and Android Programming	2 credits
CS 300	Data Structures	4 credits
CS 310	Theoretical Computer Science	4 credits
CS 380	Algorithm Design and Analysis	4 credits
CS 435	Computer Security	4 credits
CS 460	Operating Systems	4 credits
CS 485	Advanced Object-Oriented Programming	4 credits
CS 493	Software Engineering I	2 credits
CS 494	Software Engineering II	2 credits
CS 498	Senior Capstone	2 credits

Four credits selected from the following courses:

Math 207	General Elementary Statistics	4 credits
Math 301	Mathematical Modeling	4 credits
Math 306	Linear Algebra	4 credits

Eight credits selected from the following courses:

CS 315	Introduction to Human Computer Interaction	4 credits
CS 360	Special Topics*	4 credits
CS 445	Introduction to Database Systems	4 credits
PHY 364	Electronics	4 credits

TOTAL: 60 credits

* Note: CS 360 may be counted twice as an elective as long as the topics are different.

Restrictions

At least 24 credits of upper-division Computer Science courses must be taken from Pacific University (credit by examination not acceptable)

At most, 1 course passed with a grade below C- may count toward the Computer Science major. All courses in the Software Engineering sequence (CS 493, CS 494) must be passed with a grade of C or better.

Computer Science: Requirements for the Minor

CS 150	Introduction to Computer Science I	4 credits
CS 250	Introduction to Computer Science II	4 credits

Electives:

12 credits

Electives are selected from: CS 205, CS260, CS 300, CS 310, CS 315, CS 360, CS 380, CS 430, CS 445, CS 460, CS 480, MATH 306, MATH 240, PHY 364.

At least one of the following:

MATH 125	Precalculus	4 credits
MATH 226	Calculus	4 credits

TOTAL: 24 Credits

Restrictions: Eight of the elective credits must be upper-division Computer Science courses taken at Pacific University.

COURSES

CS-121 Our Digital World

An exploration of the impact and effects of the Internet on all aspects of our lives as global citizens. This course examines the ethical, cultural, economic and political aspects of the Internet as a social technology. Also listed as MEDA 121. 2 credits.

CS-121 Our Digital World

An exploration of the impact and effects of the Internet on all aspects of our lives as global citizens. This course examines the ethical, cultural, economic and political aspects of the Internet as a social technology. Also listed as MEDA 121. 2 credits.

CS-122 Introduction to Digital Media

An introduction to producing, editing and publishing computer-based media including computer graphics, Web sites, and streaming media. Includes a survey of modern communications formats such as blogs, podcasts, and social networks. Also listed as MEDA 122. 2 credits.

CS-130 Introduction to Software Tools

Many disciplines are finding the need to gather, manipulate, analyze, and graph data. This course will introduce students to software tools that aid in this process. Software that is widely used at Pacific includes: a Statistics Software Package, Excel, Word, and PowerPoint. Class includes lab projects. Prerequisite: MATH 125 with a minimum grade of C. 2 credits.

CS-150 Introduction to Computer Science I

A first course in computer programming fundamentals: no previous programming experience is required. This course will be taught in C++ and include programming projects in a variety of areas. Course content includes data types, selection structures, repetition structures, functions, arrays, structures and I/O. In addition to three lectures per week, the class meets weekly for a laboratory session. Corequisite: MATH 125. 4 credits.

CS-155 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

CS-205 Intro to Programming for Multimedia

This course introduces students with little or no programming experience to the design and development of software applications using a high-level, object-oriented programming language such as JavaScript. Prerequisite: CS 122 or MEDA 122 with a minimum grade of C. Offered alternate years. 4 credits.

CS-232 Mobile Data Collection & Analysis

This course will show students how to use modern mobile data collection systems in laboratory and field applications. Experiments will be designed and carried out using mobile devices for data collection and software tools for data analysis and reporting. Sample experiments might revolve around topics such as blood pressure, EKG, flow rate, GPS with Google Maps, pH, light, pressure, and temperature. Prerequisite: CS 130 and MATH 125, both with a minimum grade of C. 2 credits.

CS-250 Introduction to Computer Science II

A second course in programming that is a continuation of CS 150. The focus of this course is object-oriented programming in C++. Concepts taught include pointers, classes, operator overloading, inheritance, and polymorphism. These concepts will be reinforced with advanced programming projects including introductory game programming. Prerequisite: CS 150 and MATH 125 each with a minimum grade of C. 4 credits.

CS-255 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

CS-260 Intro to Java & Android Programming

The focus of this course is programming using Java and Android Devices including Smartphones. Students will design, develop, and test Java programs. Topics will include the Java API, Smartphone hardware features, and Event Driven Programming. Prerequisite: CS 250 with a minimum grade of C and declared Computer Science major. 2 credits.

CS-275 Internship

See department for details. Internship contract required.

CS-295 Independent Study

See department for details. Independent study contract required.

CS-300 Data Structures

Data structures are fundamental to advanced, efficient programming. Topics including asymptotic analysis, stacks, queues, linked lists, trees, and hash tables will be covered in discussions centering around more sophisticated programming concepts, problem solving techniques, and software reusability. Prerequisite: CS 250 with a minimum grade of C. 4 credits.

CS-310 Theoretical Computer Science

This course introduces the foundations of formal language theory, computability, and complexity, shows the relationship between automata and various classes of languages, addresses the issue of which problems can be solved by computational means and studies the complexity of their solutions. It also studies Turing machines and equivalent models of computation, the Chomsky hierarchy, context free grammars, push-down automata, and computability. Prerequisite: CS 250 with a minimum grade of C. Offered alternate years. 4 credits.

CS-315 Intro to Human Computer Interaction

Humans interact with computers through user interfaces; designing useful and effective interfaces involves many challenges for both designers and programmers. This course will cover the basics of the field of human computer interaction including the human factors of interactive software, methods to develop and assess interfaces, interaction styles and design considerations. The class will include research and design projects as well as a programming project. Prerequisite: CS 250 or MEDA 265 with a minimum grade of C. Offered alternate years. 4 credits.

CS-355 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

CS-360 Special Topics

The topic of this course changes from year to year depending on the latest developments in Computer Science and the research interests of the faculty. Recent topics include Client/Server Programming Using Java, Artificial Intelligence and Robotics, Windows Programming, and Computer Networking. Programming projects will build on existing APIs. Prerequisite: CS 250 with a minimum grade of C. May be repeated for credit. 4 credits.

CS-380 Algorithm Design and Analysis

An introduction to the formal techniques that support the design and analysis of algorithms, focusing on both the underlying mathematical theory and the practical considerations of efficiency. Topics include asymptotic complexity bounds, techniques of analysis, algorithmic strategies, advanced data structures, graph theory and other selected topics. Coursework includes object-oriented programming in C++ and covers templates, STL, and exception handling. Prerequisite: CS 300 and MATH 240 each with a minimum grade of C. Offered alternate years. 4 credits.

CS-395 Independent Study

See department for details. Independent study contract required.

CS-435 Computer Security

Introduces the fundamental issues and principles of computer and information security. The course will cover security policies, models and mechanisms related to confidentiality, integrity, authentication, identification, and availability issues related to information and information systems. Other topics include common attacking techniques such as virus, trojan, worms and memory exploits; the formalisms of information security such as the access control and information flow theory; the basic cryptography, RSA, cryptographic hash function, and password system; and legal and ethical issues in computer security. Students will learn how to design secure systems and write secure code. Prerequisites: Math 240 and CS 300. Offered alternate years. 4 credits.

CS-445 Introduction to Database Systems

An introduction to both the theory and application of Database Management Systems using a modern DBMS and web application front-end. Topics covered will include database design including normalization and optimization, the relational model, relational algebra, security, transaction management, and the query language SQL. Distributed and web architectures will be discussed. All topics in the course will be implemented concretely using a modern DBMS. Prerequisite: CS 300 with a minimum grade of C. Offered alternate years. 4 credits.

CS-455 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

CS-460 Operating Systems

This course provides a hands-on introduction to operating systems including the development of a command line shell and kernel modules. Topics covered include processes and threads, CPU scheduling, memory management, I/O systems, distributed file systems, operating system history and design, and synchronization. Prerequisite: CS 300 with a minimum grade of C. Offered alternate years. 4 credits.

CS-475 Internship

See department for details. Internship contract required.

CS-485 Advanced Object Oriented Design

Extends the object oriented design knowledge gained in CS 250. This course will cover the decomposition of a software system into objects emphasizing: building an object hierarchy, information hiding, abstraction of behavior, and reusability of objects. Object Oriented Design Patterns will be introduced. Students will apply various Design Patterns to classroom assignments as well as refactor an existing software project to use the proper Design Patterns. Students will be required to work in teams to produce a large software system as a final project. Prerequisites: CS 300 with a minimum grade of C. Offered alternate years. 4 credits

CS-493 Software Engineering I

This course will cover the theory behind software development. Topics covered include software architecture, requirements analysis, prototyping, and project management tools. These topics are critical to the success of the student senior capstone projects. Prerequisite: Senior standing (90 or more completed credits), declared CS major, and one 400 level CS course with a minimum grade of C taken at Pacific. 2 credits.

CS-494 Software Engineering II

During this course, students will study the implementation and maintenance of a large software project. This includes the study of software development techniques, managing requirement and design changes during implementation, verification and validation, and defect management. In addition, students will participate in code reviews, study professionalism and job interview techniques, and meet with industry professionals and local technology companies. Prerequisite: CS 493 with a minimum grade of C. 2 credits.

CS-495 Independent Research

See department for details. Independent study contract required.

CS-498 Senior Capstone

Students will have the opportunity to use their Computer Science skills and knowledge to implement an original project of their choice under the supervision of faculty in Computer Science. The project will result in a software application and final presentation. Prerequisite: CS 493 with a minimum grade of C. 2 credits.

CRIMINAL JUSTICE, LAW AND SOCIETY

Jaye Cee Whitehead, Chair; Taryn VanderPyl

The major in Criminal Justice, Law and Society (CJLS) is offered by the Department of Sociology, Anthropology, and Criminal Justice, Law and Society. CJLS explores complex issues of crime, justice and social policy from a multi-disciplinary perspective. Students will explore the theory and philosophy of law and justice in the United States and grapple with the challenges of the pursuit of justice in our complicated and quickly changing social environment. Students pursuing the major in Criminal Justice, Law and Society may pursue careers in social policy, criminal justice, law enforcement, juvenile justice, corrections, law, federal and state agencies and organizations. The CJLS major is also excellent preparation for graduate work in law, political science, , social work, criminology, public administration, education and other academic disciplines.

Program Learning Outcomes

Students completing the Criminal Justice, Law and Society major will:

- Demonstrate a basic understanding of the various components of the U.S. criminal justice system and its legal context.
- Demonstrate an understanding of competing theories of crime and criminal justice, in the U.S. and globally.
- Appreciate the influence of issues of race, gender and economic status in the criminal justice system.
- Demonstrate basic conflict resolution skills.
- Demonstrate an in-depth understanding of one setting or one component of crime or criminal justice.
- Be able to clearly articulate, consider and argue issues requiring diverse frames of reference within criminal justice.
- Demonstrate writing and presentation skills needed to convey complex issues with clarity and understanding.

Criminal Justice, Law and Society: Requirements for the major

Take all of the following:

CJLS 101	Introduction to Law and Society	4 credits
CJLS 200	Criminal Justice	4 credits
SOC 266	Deviance	4 credits
PSJ 215	Conflict Mediation	2 credits
PHIL 315	Philosophy of Law	4 credits
POLS 325	Constitutional, Law	4 credits
POLS 326	Civil Liberties	4 credits
SOC 304	Criminology	4 credits
SOC 300	Methods of Social Research	4 credits
SOC 301	Social Statistics	4 credits
CJLS 380	CJLS Practicum	4 credits
CJLS 491	Senior Capstone 1	2 credits
CJLS 492	Senior Capstone 2	2 credits

Choose one course (2 credits) from the following skills courses:

MEDA 101	Fundamentals of Speaking	2 credits
MEDA 109	Intro to Communication Design	2 credits
PSJ 105	Introduction to Civic Engagement	2 credits
OL 107	Wilderness First Responder	2 credits
OL 207	Introduction to Outdoor Leadership	2 credits
APTH 272	Performance as Witness	2 credits

Choose one course (4 credits) from the following courses that explore diversity in the contemporary USA:

HIST 245	Race in Modern America	4 credits
HIST 465	Civil Rights Movement	4 credits
SPAN 325	Mexican-American Cultural Exploration	4 credits
POLS 227	Civil Rights Movement	4 credits
SOC 360	Critical Race Theory	4 credits
GSS 201	Introduction to Gender and Sexuality Studies	4 credits

TOTAL: 52 credits

Criminal Justice, Law and Society: Requirements for the minor

CJLS 101	Introduction to Law and Society	4 credits
CJLS 200	Criminal Justice	4 credits
POLS 325	Constitutional Law	4 credits
POLS 326	Civil Liberties	4 credits
SOC 304	Criminology	4 credits

TOTAL: 20 credits

COURSES

CJLS-101 Introduction to Law & Society

Did you know that the law influences almost every aspect of our daily lives? In this course, students will examine the importance, influence and impact of law in society. We will look at how society creates the law and how the law, in turn, shapes society. Law, legal structures, law enforcement and the interpretation of law will be considered in their social context. This course focuses on systems of government and law within the United States. Counts toward core requirement: Social Sciences. 4 credits.

CJLS-155 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

CJLS-200 Criminal Justice

Introduces students to the institutions and judicial system, corrections and the juvenile justice system. Students will study specific criminal cases as a means of understanding the workings of the U.S. criminal justice system. Prerequisites: CJLS 101. Meets core requirement: Social Sciences. 4 credits.

CJLS-255 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

CJLS-275 Internship

See department for details. Internship contract required. 1-4 credits.

CJLS-295 Independent Study

See department for details. Independent study contract required. 1-6 credits.

CJLS-355 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

CJLS-380 Practicum

This course will provide students with an opportunity to integrate theoretical and applied learning in a community setting. Students will complete a 100 hour practicum in an approved placement under the supervision of an agency staff member in consultation with a CJLS faculty member. Students will complete a signed learning agreement in the beginning of the practicum, which will guide their individualized learning experiences. Students will be required to meet with the instructor and other CJLS students in a weekly seminar setting to discuss their work in the field placement. In addition to hours spent working in the field, students will be expected to complete assignments and readings intended to enhance the practicum experience. Prerequisites: CJLS 101, SOC 300, and SOC 301. Counts toward core requirement: Civic Engagement. 4 credits.

CJLS-395 Independent Study

See department for details. Independent study contract required. 1-8 credits.

CJLS-455 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

CJLS-475 Internship

See department for details. Internship contract required. 1-14 credits.

CJLS-491 Senior Capstone I

The focus of this course is to assist students in selecting an area of interest in order to define their senior thesis project, to complete a literature review, to develop a research methodology, and to begin data collection. This course is required of all CJLS majors in their final year. Prerequisites: Senior standing (90 or more completed credits) and declared CJLS major. Offered in Fall. 2 credits.

CJLS-492 Senior Capstone II

Students further refine and develop their senior thesis project. Students complete their data analysis, complete their written thesis, and prepare for the public presentation of their thesis for Senior Project's Day. Prerequisites: CJLS 491. Offered in Spring. 2 credits.

CJLS-495 Independent Study

See department for details. Independent study contract required. 1-18 credits.

DANCE

Ellen Margolis, Chair; Jennifer Camp, James Healey, Mary Hunt, Anita Mitchell

At Pacific, opportunities in the performing arts are available to all students, regardless of major. Whether you are interested in a professional dance career, in teaching, or in combining theatre or dance with other fields of study, our courses and productions provide a well-rounded foundation.

The most collaborative of the arts, theatre and dance partake of, literature, history, music, movement, architecture, and design. Creating a compelling performance entails mastery of a wide array of skills, including acting, directing, playwriting, design, and technology.

Through rigorous work in academic, studio, and community settings, the Department of Theatre & Dance develops engaged artists and active learners. Faculty and students work together to teach, learn, create, and communicate in a spirit of exploration and collaboration. Our distinctive Applied Theatre program builds on traditional performance training to serve individuals and communities, while our theatre season offers challenging, uplifting performances to the campus.

Program Learning Outcomes

Through theatrical production, community workshops, and academic study, the Pacific Department of Theatre & Dance strives to provide students with:

- Appreciation for the functions of the arts in all cultures, and specifically for the importance of story-telling, plays, and dance
- Practical experience in theatre and dance production, including scenic, lighting, costume, sound and make-up design; acting; stage management; dance; theatre technology; playwriting; and directing
- Critical thinking, writing, speech, and organizational skills
- Practical skills—including collaboration, problem-solving, project management, event planning, communication, and time management—that are applicable to a wide range of careers,
- Preparation through coursework, production experience, and internships for careers in theatre, dance, television, film, arts management, public relations, and teaching
- Preparation for graduate study in performance, design, and scholarly disciplines.

The dance program at Pacific University combines practical experience with rigorous academics. The program provides opportunities to perform, choreograph, and study literature and history, all of which integrate theory and practice. Students graduating with dance training go on to work in a variety of fields, including performance, production, arts management, teaching and many other professions that value communication, collaboration, critical thinking and creativity. Programs that combine well with dance include exercise science, music, business and education.

Dance: Requirements For The Major

Technique Foundations

Ballet: take 8 credits from the following, at least 4 of which must be upper-division:

DANC 205	Intermediate Ballet I	0-2 credits*
DANC 206	Intermediate Ballet II	0-2 credits*
DANC 305	Advanced Ballet I	0-2 credits*
DANC 306	Advanced Ballet II	0-2 credits*

Jazz or Contemporary: take 4 credits from the following

DANC 221	Intermediate Jazz Dance I	0-2 credits*
DANC 222	Intermediate Jazz Dance II	0-2 credits*
DANC 321	Advanced Jazz Dance I	0-2 credits*
DANC 322	Advanced Jazz Dance II	0-2 credits*
DANC 226	Intermediate Contemporary Dance I	0-2 credits*
DANC 227	Intermediate Contemporary Dance II	0-2 credits*
DANC 326	Advanced Contemporary Dance I	0-2 credits*
DANC 327	Advanced Contemporary Dance II	0-2 credits*

Composition and Choreography

DANC 200	Improvisation	2 credits
DANC 301	Choreography I	4 credits

Context and Repertoire

DANC 261	Dance Appreciation and History I	4 credits
DANC 271	Dance Appreciation and History II	4 credits
DANC 420	Teaching Methods of Dance	4 credits
OR		
DANC 280	World Dance and Cultures	4 credits

Mechanics, Health, and Safety

DANC 310	Kinesiology for Dancers I	4 credits
DANC 320	Kinesiology for Dancers II	4 credits

Production (take 2 credits from the following)

THEA 152	Costume/Makeup	1 credit
THEA 156	Run Crew	1 credit
DANC/THEA 336	Lighting Design for Dancers and Directors	2 credits

Synthesis

DANC 497	Capstone	2 credits
DANC 498	Capstone	

Electives (take 4 credits from the following)

DANC 280	World Dance and Culture	4 credits
THEA 325	Injury Prevention and Conditioning for Dancers	2 credits
DANC 420	Teaching Methods of Dance	4 credits
Other courses approved by department chair		

TOTAL: 48 credits

*0-2 credit option for dance majors or minors only

Dance: Requirements for the Minor

The Dance minor is available to all undergraduate students. Dance studies complement majors in theatre, music, visual arts, media arts, exercise science, education and psychology. The Dance minor offers strong emphasis on creativity through performance and choreography.

A minimum of 8 upper-division credits is required.

Technique Foundations

Jazz or Contemporary: take 4 credits from the following:

DANC 221	Intermediate Jazz Dance I	0-2 credits*
DANC 222	Intermediate Jazz Dance II	0-2 credits*
DANC 321	Advanced Jazz Dance I	0-2 credits*
DANC 322	Advanced Jazz Dance II	0-2 credits*
DANC 226	Intermediate Contemporary Dance I	0-2 credits*
DANC 227	Intermediate Contemporary Dance II	0-2 credits*
DANC 326	Advanced Contemporary Dance I	0-2 credits*
DANC 327	Advanced Contemporary Dance II	0-2 credits*

Ballet: take 4 credits from the following:

DANC 205	Intermediate Ballet I	0-2 credits*
DANC 206	Intermediate Ballet II	0-2 credits*
DANC 305	Advanced Ballet I	0-2 credits*
DANC 306	Advanced Ballet II	0-2 credits*

Electives: take 4 additional credits from the following:

DANC 305	Advanced Ballet I	0-2 credits*
DANC 306	Advanced Ballet II	0-2 credits*
DANC 321	Advanced Jazz Dance I	0-2 credits*
DANC 322	Advanced Jazz Dance II	0-2 credits*
DANC 325	Injury Prevention Conditioning Dancers	2 credits
DANC 326	Advanced Contemporary Dance I	0-2 credits*
DANC 327	Advanced Contemporary Dance II	0-2 credits*

Production (take 2 credits from the following)

THEA152	Costume/Makeup	1 credit
THEA 156	Run Crew	1 credit
DANC/THEA 336	Lighting Design for Dancers and Directors	2 credits

Context and Repertoire

DANC 261	Dance History and Appreciation I	4 credits
OR		
DANC 271	Dance History and Appreciation II	4 credits

Composition

DANC 200	Dance Improvisation	2 credits
----------	---------------------	-----------

Electives

Choose 6 credits, at least 4 of which must be upper-division

THEA 110	Acting I	2 credits
DANC 261	Dance History and Appreciation I	4 credits
DANC 271	Dance History and Appreciation II	4 credits
DANC 280	World Dance and Culture	4 credits
DANC 301	Choreography I	4 credits
DANC 325	Injury Prevention for Dancers	2 credits
DANC 401	Choreography II	4 credits
DANC 420	Teaching Methods of Dance	4 credits

TOTAL: 26 credits

*0-2 credit option for dance majors and minors only

COURSES

DANC-105 Beginning Ballet I

Course work taught at a beginning level of dance. The course work concentrates on classical ballet exercises at the beginning level with an emphasis on proper body alignment, improving flexibility and strength, and terminology and theory of movement. May be repeated for credit. 2 credits.

DANC-106 Beginning Ballet II

A continuation of DANC 105. Course work taught progressively based on lessons taught from fall semester. The course work concentrates on classical ballet exercises at the beginning level with an emphasis on proper body alignment, improving flexibility and strength, and terminology and theory of movement. DANC 105 recommended. May be repeated for credit. 2 credits.

DANC-121 Beginning Jazz Dance I

Beginning Jazz I is a beginning level class. The course work is based on contemporary and classical styles of jazz dance with the focus on body isolations, syncopated rhythms, improvisation and stylized choreography. May be repeated for credit. 2 credits.

DANC-122 Beginning Jazz Dance II

A continuation of DANC 121 in the spring semester. Course work taught progressively based on technique taught from fall semester. Beginning Jazz II is a beginning level class. The course work is based on contemporary and classical styles of jazz dance with the focus on body isolations, syncopated rhythms, improvisation and stylized choreography. DANC 121 recommended. May be repeated for credit. 2 credits.

DANC-126 Begin Contemporary Dance I

Contemporary Dance is an introductory course taught at the beginning level for students interested in contemporary styles of dance. It focuses on strengthening dancers' movements skills through increased flexibility, strength, endurance; musical awareness; develop an understanding and appreciation of contemporary dance; learning original choreography and understanding pertinent anatomical vocabulary needed to develop strong contemporary technique. May be repeated for credit. 2 credits.

DANC-127 Begin Contemporary Dance II

A continuation of the beginning level technique class taught progressively from lessons taught in DANC 126. It focuses on strengthening dancers' movements skills through increased flexibility, strength, endurance; musical awareness; develop an understanding and appreciation of contemporary dance; learning original choreography and understanding pertinent anatomical vocabulary needed to develop strong contemporary technique. DANC 126 recommended. May be repeated for credit. 2 credits.

DANC-195 Independent Study

See department for details. Independent study contract required.

DANC-200 Dance Improvisation

The exploration of movement. The course focuses on a guided series of exploration exercises that generate spontaneous and free form movement. Additionally, this course concentrates on freeing the body of trained movement habits in order to uncover an original movement vocabulary. Corequisite: Any 200 or 300-level technique course. 2 credits.

DANC-205 Intermediate Ballet I

A continuation of DANC 105 and DANC 106. Course work taught based on progressive curriculum. The course work concentrates on classical ballet exercises at the beginning level with an emphasis on proper body alignment, improving flexibility and strength, and terminology and theory of movement. Prerequisite: DANC 105 and DANC 106. May be repeated for credit. 2 credits. The 0-2 credit option is only available to Dance majors and minors.

DANC-206 Intermediate Ballet II

A continuation of DANC 205. Course work taught progressively on lessons taught from fall semester. The course work concentrates on classical ballet exercises at the beginning level with an emphasis on proper body alignment, improving flexibility and strength, and terminology and theory of movement. Prerequisite: DANC 105 and DANC 106; or DANC 205. May be repeated for credit. 2 credits. The 0-2 credit option is only available to Dance majors and minors.

DANC-221 Intermediate Jazz Dance I

Intermediate Jazz I is an intermediate level class. Course work taught progressively based on technique taught from beginning level Jazz. The course work is based on contemporary and classical styles of jazz dance with the focus on body isolations, syncopated rhythms, improvisation and stylized choreography. Prerequisite: DANC 121 and DANC 122. May be repeated for credit. 2 credits. The 0-2 credit option is only available to dance majors and minors.

DANC-222 Intermediate Jazz Dance II

A continuation of DANC 221. Course work taught progressively based on technical skills taught from fall semester. Intermediate Jazz II is an intermediate level class. The course work is based on contemporary and classical styles of jazz dance with the focus on body isolations, syncopated rhythms, improvisation and stylized choreography. Prerequisite: DANC 121 and DANC 122; or DANC 221. May be repeated for credit. 2 credits. The 0-2 credit option is only available to dance majors and minors.

DANC-226 Intermediate Contemporary Dance I

Contemporary Dance is an intermediate level technique class taught progressively from lessons taught in DANC 126 and 127. It focuses on strengthening dancers' movements skills through increased flexibility, strength, endurance; musical awareness; develop an understanding and appreciation of contemporary dance; learning original choreography and understanding pertinent anatomical vocabulary needed to develop strong contemporary technique. Prerequisite: DANC 126 and 127. May be repeated for credit. 2 credits. The 0-2 credit option is only available to Dance majors and minors.

DANC-227 Intermediate Contemporary Dance II

A continuation of an intermediate level technique class taught progressively from lessons taught in DANC 226. It focuses on strengthening dancers' movements skills through increased flexibility, strength, endurance; musical awareness; develop an understanding and appreciation of contemporary dance; learning original choreography and understanding pertinent anatomical vocabulary needed to develop strong contemporary technique. Prerequisite: DANC 126 and 127; or DANC 226. May be repeated for credit. 2 credits. The 0-2 credit option is only available to Dance majors and minors.

DANC-229 Dance Ensemble I Apprentice Company

Rehearsal and performance of new dance repertory and historical choreography. Continued development and refinement of skills acquired in other courses. Occasional work with guest dance artists and choreographers. Meets three times a week. Audition required. DANC 121, DANC 126 strongly recommended. Corequisite: Any 200 or 300-level technique course. May be repeated for credit. Offered each semester. 0-1 credit.

DANC-255 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

DANC-261 Dance History & Appreciation I

A lecture course on the early formation of ballet from the 15th century Italian Renaissance Courts to its spread throughout Europe, and eventually to its emergence in America through the 21st century. 4 credits.

DANC-271 Dance History & Appreciation II

Examines 20th and 21st-century artists whose work continues to influence Dance and American Culture. The class concentrates on the dancers, choreographers, and teachers who have developed the art form, examining their works and discussing both their significance in their time period and their ongoing influence. 4 credits.

DANC-275 Internship

See department for details. Internship contract required. 1-4 credits.

DANC-280 World Dance and Culture

Explores various dance forms from a variety of international cultures including Bharata Natyam/Indian classical dance; Latin dance; African dances; Native American; Asian; and other forms. It will investigate how these dance forms play a part in the various cultures; ritually, socially, or performed as a source of entertainment. Counts toward core requirement: International Perspectives. 4 credits.

DANC-301 Choreography I

An introductory course on learning the craft of choreography. It focuses on strengthening performance skills for staged works through improvisational movement exercises and choreographic studies. As a choreographer, the student will learn to develop movement themes through the exploration and use of the concepts and principles applied in dance, such as time, space, and energy. Overall, students will develop a critical awareness through analytical assessment of his/her own work and other choreographic works. Prerequisite: DANC 200. 4 credits.

DANC-305 Advanced Ballet I

Dance 305 is a continuation of Intermediate Ballet (DANC 205 and DANC 206). Course is taught based on a progressive curriculum. The course concentrates on classical ballet exercises with an emphasis on proper body alignment, improving flexibility and strength, terminology, and theory of movement. Prerequisite: DANC 205 and DANC 206. May be repeated for credit. 2 credits. The 0-2 credit option is only available to Dance majors and minors.

DANC-306 Advanced Ballet II

A continuation of DANC 305. Course is taught based on a progressive curriculum. The course concentrates on classical ballet exercises with an emphasis on proper body alignment, improving flexibility and strength, and terminology and theory of movement. Prerequisite: DANC 205 and DANC 206; or DANC 305. May be repeated for credit. 2 credits. The 0-2 credit option is only available to Dance majors and minors.

DANC-310 Anatomy and Kinesiology for Dancers I

The study of body mechanics as it pertains to dance movement. This course concentrates on anatomy and physiology, nutrition for dancers, screening for muscular imbalances, injury prevention, and supplemental conditioning. Its goal is to give dancers knowledge, insight, and an understanding of proper body mechanics, technically, and aesthetically as it applies to dance movement. It also aids in a greater understanding of the importance of maintaining the body at its physical peak to meet the demands of a profession in dance both mentally and physically. BIOL 110 or BIOL 200, BIOL 230 or BIOL 240, and EXIP 281 recommended. 4 credits.

DANC-320 Anatomy and Kinesiology for Dancers II

A continuation of the study of body mechanics as it pertains to dance movement. This course concentrates on anatomy and physiology, nutrition for dancers, screening for muscular imbalances, injury prevention, and supplemental conditioning. Its goal is to give dancers knowledge, insight, and an understanding of proper body mechanics technically and aesthetically as it applies to dance movement. It also aids in a greater understanding of the importance of maintaining the body at its physical peak to meet the demands of a profession in dance both mentally and physically. Prerequisite: DANC 310. 4 credits.

DANC-321 Advanced Jazz Dance I

Course is an intermediate/advanced level class. Course work taught progressively based on technique taught from Intermediate Jazz Dance I and II. The course work is based on contemporary and classical styles of jazz dance with the focus on body isolations, syncopated rhythms, improvisation and stylized choreography. Prerequisite: DANC 221 and DANC 222. May be repeated for credit. 2 credits. The 0-2 credit option is only available to dance majors and minors.

DANC-322 Advanced Jazz Dance II

This course is an intermediate/advanced level class. Course work taught progressively based on technique taught from Intermediate Jazz Dance I and II. The course work is based on contemporary and classical styles of jazz dance with the focus on body isolations, syncopated rhythms, improvisation, and stylized choreography. Prerequisite: DANC 221 and DANC 222; or DANC 321. May be repeated for credit. 2 credits. The 0-2 credit option is only available to dance majors and minors.

DANC-325 Injury Prevention Conditioning Dancers

Designed to teach dancers how to maintain a healthy practice through the use of cross-conditioning exercises. The course will also focus on how to screen for muscular weaknesses and apply conditioning exercises to strengthen dancers' bodies to prevent injuries. Additionally, there will be an overview on the benefits of healthy eating habits for dancers and their importance in sustaining both mental and physical stamina needed for the demands of dance. DANC 310 and DANC 320 recommended. Corequisite: A 200 or 300-level technique course. 2 credits.

DANC-326 Advanced Contemporary Dance I

This is an intermediate/advanced level technique class taught progressively from lessons taught in Beginning and Intermediate Contemporary Dance (DANC 126, 127, 226, 227). It focuses on strengthening dancers movements skills through increased flexibility, strength, endurance; musical awareness; develop an understanding and appreciation of contemporary dance; learn original choreography and understand pertinent anatomical vocabulary needed to develop strong contemporary technique. Prerequisite: DANC 226 and DANC 227. May be repeated for credit. 2 credits. The 0-2 credit option is only available to Dance majors and minors.

DANC-327 Advanced Contemporary Dance II

A continuation of DANC 326. This is an intermediate/advanced level technique class taught progressively from lessons taught in Beginning and Intermediate Contemporary Dance (DANC 126, 127, 226, 227, 326). It focuses on strengthening dancers movements skills through increased flexibility, strength, endurance; musical awareness; develop an understanding and appreciation of contemporary dance; learn original choreography and understand pertinent anatomical vocabulary needed to develop strong Contemporary technique. Prerequisite: DANC 226 and DANC 227; or DANC 326. May be repeated for credit. 2 credits. The 0-2 credit option is only available to Dance majors and minors.

DANC-336 Lighting for Dance & Directors

Gives students practical knowledge and experience with the lighting craft to inform both their creative work and their ability to collaborate and communicate their lighting needs when working with designers. Students will be exposed to practical application and creation of expressive lighting techniques. Students will explore color theory and electrical safety. This class is recommended for, but not limited to, dance students. Also listed as THEA 336. Prerequisite: THEA 120 or DANC 200. DANC 301 and DANC 401 recommended. 2 credits.

DANC-355 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

DANC-395 Independent Study

See department for details. Independent study contract required.

DANC-401 Choreography II

Choreography II allows students who have studied basic choreography to focus on creating work for small groups. It focuses on strengthening performance skills for staged works through improvisational movement exercises and choreographic. As a choreographer, the student will learn to develop movement themes through the exploration and use of the concepts and principles applied in dance, such as time, space, shape, force, and motivation. The course will also focus on the development of a critical awareness in the analytical evaluation of his/her own work and through the viewing of other choreographic works. Prerequisite: DANC 301. Corequisite: A 200 or 300-level technique course. 4 credits.

DANC-420 Teaching Methods of Dance

Concentrates on how to prepare students to teach dance. It focuses on isolating and analyzing individual movements, with an emphasis on correct, safe execution and use of appropriate muscles. In addition, students learn how to teach with an accompanist, understand time signatures for specific movement combinations, prepare a course lesson plan, and daily lesson plans. Each student will teach at least one lesson to the entire class. Prerequisite: DANC 305 and DANC 306; or DANC 321 and DANC 322; or DANC 326 and DANC 327. 4 credits.

DANC-429 Dance Ensemble II Advanced Company

Rehearsal and performance of new dance repertory and historical choreography. Continued development and refinement of skills acquired in other courses. Occasional work with guest dance artists and choreographers. Meets twice weekly. Audition required. Course is intended for juniors and seniors. Corequisite: Any 200 or 300-level technique course. Instructor's consent required. May be repeated for credit. Offered each semester. 0-1 credit.

DANC-495 Independent Study

See department for details. Independent Study contract required.

DANC-497 Senior Capstone Project I

This course is an independent project for senior students, which fulfills 2 credits of the 4 credits required for the Dance major. Areas may emphasize either aspects of performance/choreography, or dance research. Projects may include research in the following areas of dance: education, science, art, history, digital media, or other related topics. The capstone project will be determined between the student and the faculty advisor. Students must meet with their advisor during their junior year to set goals in order to complete their capstone project in the fall and spring of their senior year. Students choosing the choreography/performance project, will present their project in the fall semester. Students choosing the research project will complete fieldwork in the fall semester and written research results will be completed in DANC 498. Instructor's consent required. 2 credits.

DANC-498 Senior Capstone Project II

This course is part two of the independent project for senior students who have completed DANC 497 in completion toward the Dance major. Students will complete a written thesis documenting the process and results from DANC 497. A final oral presentation of the final work findings will be completed at the end of the semester discussing results from the performance, showing, teaching demonstration, or the chosen dance project. Prerequisite: DANC 498 with minimum grade B. 2 credits.

DISABILITIES STUDIES

Nancy Cicirello, Ramona Ilea, Christine Macfarlane, Marc Marengo, Jessica Ritter, Todd Schultz, Tim Thompson

Disability is a natural part of the human experience but despite its universality, societies past and present have treated the physically or mentally different with fear and antipathy. (The Nazi gas chambers, for example, were first constructed to eradicate persons with mental disabilities.)

Disability Studies from the perspectives of the humanities tries to understand why people with disabilities have been treated as they have and how they should be treated in a twenty-first century democracy like our own, and why.

This minor is designed for students majoring in any of the liberal arts and sciences. For those interested in health care, disability studies complements their science courses by focusing on the social, cultural, and political issues in their future careers, and by concentrating on a population of people that many professions - physical therapy, education, medicine, and psychology, for example - are established to serve.

Students majoring in the social sciences or humanities will be interested in disability studies' analysis of the most fundamental ideas of our culture: body and mind, normality and difference, freedom and rights, beauty and wholeness - all of these "abstractions" and their profound importance may become clearer in classes devoted to exploring their impact on our laws, schools, hospitals, beliefs, and day-to-day lives.

Program Learning Outcomes

Students completing the Disability Studies Minor will be able to :

- demonstrate historical knowledge of how disability has been perceived and treated
- analyze how social and cultural representations of disability have effected its perception in the past and present
- discuss the major issues facing people with disabilities today
- work with people with disabilities comfortably and respectfully.

Disability Studies: Requirements for the Minor

ENGL 221	Literature and Disability	4 credits
DS/PHIL 307	Ethics, Medicine, and Health Care	4 credits

DS 200 Introduction to Disability Studies 2 credits

OR

ENGW 202	Writing About Disability	4 credits
----------	--------------------------	-----------

Electives from the following list, 6 credits of which must be upper-division

DS 204	Working w/ People w/ Disability	4 credits
DS/EXMB 315	Adaptive Physical Education	2 credits
HIST 305	History of Magic and Witchcraft	4 credits
PSJ 105	Introduction to Civic Engagement	2 credits
PSJ/PHIL 240	Human Rights	2 credits
PHIL 202	Ethics and Society	4 credits
POLS 222	Civil Rights Movement	2-4 credits
POLS 321	Protest, Dissent, and Change	4 credits
DS/POLS 325	Constitutional Law	4 credits
DS/PSY 211	Abnormal Psychology	4 credits
SOC 319	Sociology of Medicine	4 credits
SOCWK201	Principles of Social Work	4 credits
SOCWK 351	Social Policy and Justice	4 credits
SPED 300	Foundations of Special Education	2 credits
SPED 305	Exceptionalities	2 credits
SPED 342	Assistive Technology	1 credits

TOTAL: 23-24 credits

COURSES

DS-200 Introduction to Disability Studies

Disability Studies understands disability as referring not only to a biological or medical condition, but also to a community of people (the largest minority in the U.S.); to a civil rights movement; to a complex set of social and ethical issues; to a universal human experience; and to the ways cultures respond to different bodies, minds, and behaviors. The class will help students understand disability in its social, cultural, and ethical dimensions. It will sometimes be taught in Hawaii during Winter. Counts toward core requirement: Diverse Perspectives. Students who have successfully completed ENGW 202: Writing About Disability should not take this course. 2 credits.

DS-204 Working w/People w/Disability

Combines theory and practice to strengthen student understanding of the everyday lives of people with disabilities. Time is divided between classroom learning and working directly with kids, teens, and young adults in the larger community. Students choose among a variety of activities, including summer camping on Mt Hood; playing or coaching with Unified Sports of Forest Grove; mentoring recent high school graduates transitioning to adulthood, and more. Though supported by qualified faculty and staff, students have extensive opportunities to be with and learn from members of the disability community. Prerequisite: DS 204L. Counts toward core requirement: Civic Engagement. 4 credits.

DS-204L Working w/People w/Disabilities Lab

This course is the experiential lab component of DS 204. DS 204L is a prerequisite for DS 204. Pass/No Pass. 0 credits.

DS-211 Abnormal Psychology

Students critically explore major categories of disorders, with special emphasis on dissociative identity disorder, depression, schizophrenia, and borderline personality. Questions are raised about the use of psychiatric drugs, and attention is paid to the history of insanity. This course includes both textbook and original readings. Also listed as PSY 211. Prerequisite: PSY-150 with a minimum grade of C. 4 credits.

DS-255 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

DS-275 Internship

See department for details. Internship contract required. 1-4 credits.

DS-307 Ethics, Medicine & Health Care

A study of ethical issues that arise in the health care professions. After working through the processes of moral reasoning and learning about some of the major moral theories this course will focus on major topics in health care today. Typically this course deals with such issues as abortion, physician assisted suicide, genetic manipulation and cloning, and comparative health delivery systems. Students will be able to do some independent research on a topic of their choice. Also listed as PHIL 307. Prerequisite: Sophomore standing or above (30 or more completed credits). 4 credits.

DS-325 Constitutional Law

An introduction to the judicial process, legal reasoning and interpretation of the Constitution through analysis of court cases. Subjects include federalism, property, race, gender, and privacy. Also listed as POLS 325. Biennially. 4 credits.

DS-355 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

DS-395 Independent Study

See department for details. Independent study contract required. 1-18 credits.

DS-475 Internship

See department for details. Internship contract required.

DS-495 Independent Study

See department for details. Independent study contract required.

ECONOMICS

Phil Ruder, Chair; Jamie Haag

The economics major prepares students to enter a wide range of careers in business, research, or the public sector. It also prepares students for graduate study in economics, business, law, or public administration. The degree develops broadly educated individuals who are flexible, skilled at solving problems, aware of a diversity of viewpoints, and responsive to rapidly changing economic environments.

During the course of majoring in economics, students develop excellent skills in written and verbal communication, quantitative analysis, application of technology, independent research, and critical thinking. The academic requirements of the major allow students to study abroad during one semester or during an entire year. Off-campus internships are available for advanced students who wish to gain relevant work experience in applied economics, while exploring specific career options.

Program Learning Outcomes

A successful graduate with an economics major will be able to:

- read and understand standard textbooks and general publications covering economic topics
- write essays, short papers or major research papers in a clear and concise fashion, with emphasis on content, style, and analytical rigor
- organize and present ideas and information orally as part of a team and as a sole presenter
- use data and statistics to understand and to analyze relevant problems
- use contemporary information technology effectively, including the library, Internet and computer software applications
- design and carry out independent and collaborative projects

Economics: Requirements for the Major

The major in economics requires completion of 38 credits in economics courses, 4 credits in accounting, 4 credits in pre-calculus, and 4 credits in statistics. The Economics of Social Issues (ECON 101) and The Economics of Markets and Governments (ECON 102) are the basic prerequisites for all department courses. Elementary Statistics (MATH 207) must be completed prior to enrolling in Econometrics (ECON 321). Pre-Calculus (MATH 125) is a prerequisite for Microeconomic Theory (ECON 327) and Macroeconomic Theory (ECON 328). Students intending to do graduate work in economics should complete the calculus sequence and other selected math courses.

A minimum 2.0 grade point average is required in all major courses; only grades of C- or above may be used to satisfy department requirements, including MATH 207.

ECON 101	Economics of Social Issues	4 credits
ECON 102	Economics of Markets and Governments	4 credits
BA 201	Accounting Principles	4 credits
MATH 125	Pre-calculus	4 credits
MATH 207	General Elementary Statistics	4 credits
ECON 321	Introduction to Econometrics	4 credits
ECON 327	Consumers, Producers, and Governments	4 credits
ECON 328	Macroeconomic Foundations	4 credits
ECON 300+	Economics Electives	12 credits
ECON 490	Senior Seminar	2 credits
ECON 495	Senior Thesis	2 credits

TOTAL: 48 credits

Note: One elective may be selected from outside economics, with departmental approval.

Economics: Requirements for the Minor

The Economics Department offers a minor in Economics which requires completion of 24 credits of departmental courses, including 8 credits of electives. A minimum 2.0 grade point average is required. Any student interested in an Economics minor should consult with a faculty member in the Economics Department.

ECON 101	Economics of Social Issues	4 credits
ECON 102	Economics of Markets and Governments	4 credits
ECON 327	Consumers, Producers, and Governments	4 credits
ECON 328	Macroeconomic Foundations	4 credits
ECON 300+	Economics Electives	8 credits

TOTAL: 24 Credits

COURSES

ECON-101 Economics of Social Issues

Students will develop an understanding of core macroeconomic principles and their application to current problems and issues faced by policymakers. The course will emphasize the macroeconomic policy challenges faced by governments and central banks and describe the various tools available to meet these challenges. The course will examine alternative macroeconomic models used to characterize long-term trends and short-term fluctuations in key economic indicators such as gross domestic product, unemployment, inflation, consumer confidence, and deficits. 4 credits.

ECON-102 Economics of Markets & Governments

An introduction to the basic microeconomic analysis of choice in market based economies shaped by government policy. The course emphasizes the decisions made by individuals, firms, and governments faced with scarce resources. The course examines the limitations of markets in dealing with issues such as income inequality, unsustainable resource use, and anti-competitive firm practices. The course examines the role played by federal, state, and local governments in improving market outcomes. 4 credits.

ECON-155 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

ECON-255 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

ECON-275 Internship

See department for details. Internship contract required. 1-4 credits.

ECON-295 Independent Study

See department for details. Independent study contract required.

ECON-321 Introduction to Econometrics

This course is concerned with the use of statistical methods for estimating and testing economic relationships. The course will emphasize the application of classical statistical techniques of estimation, hypothesis testing, and regression analysis to economic models. Exploration of problems arising from violations of the classical assumptions. The course incorporates extensive use of statistical software to perform data analysis, regression, and forecasting. Prerequisite: ECON 101, ECON 102, and MATH 125. 4 credits.

ECON-327 Economics Consumers Producers Governments

This course presents rational choice and behavioral economic models of analyzing individual choice in the presence of scarcity. The understanding of firms begins with the study of production technology and costs and proceeds to the study of firm conduct in different market settings. Throughout the course, students study of the economic efficiency of market outcomes and the effect of government policy on social goals relating to efficiency and equity. Great emphasis will be placed on the use of mathematical tools to study economic outcomes. Prerequisite: ECON 101, ECON 102, and MATH 125. 4 credits.

ECON-328 Macroecon Found Govt/Cntrl Bank Policy

Students will gain an understanding of the origins and distinguishing characteristics of alternative schools of thought in macroeconomics. Development of closed and open economy macroeconomic models used to characterize long-term trends and short-term fluctuations in gross domestic product, unemployment, inflation, and government and international deficits. Application of quantitative methods to analyze relationships among key economic indicators, examination of current economic policy challenges, and prediction of policy outcomes based on competing macroeconomic theories. Prerequisite: ECON 101, ECON 102, and MATH 125. 4 credits.

ECON-331 Money and Banking

Analysis of the nature and functions of money and effects of changes in the money supply; operation of commercial banks, the Federal Reserve System, and the Treasury that affect the United States' monetary system; monetary theory; critique of various monetary policies. Prerequisite: ECON 101. 4 credits.

ECON-333 Environmental Economics

Environmental economics studies the role in the economic system of environmental amenities such as clean air and clear water. The course analyzes the problems of market outcomes when such amenities are not priced. The problems associated with estimating economic costs and benefits are also carefully examined. The course emphasizes the connection between economic understanding and improved public policy. Also listed as ENV 333. Prerequisite: ECON 102. 4 credits.

ECON-334 Health Economics

Students in the health economics course will apply economic theory and empirical analysis to study how socioeconomic status, public policy actions, and individual decisions influence health outcomes. The economics of private insurance markets comprises another important area of study in the course. The functions and outcomes in the United States health care system will be studied in detail and compared with those in other nations. Also listed as PH 334. Prerequisite: ECON 102. 4 credits.

ECON-341 International Trade and Development

The economic analysis of globalization. International trade topics include the determinants of trade in goods and services and the effect of trade policy on national income level and distribution. Special attention will be paid to examples relevant to U.S.-Europe, U.S.-Japan, and Developed Country-Less Developed Country economic relations. Topics in international development include determinants of growth and the effect of industrial and trade policy on national income levels and distribution. Prerequisite: ECON-101 and ECON-102. Counts toward core requirement: International Perspectives. 4 credits.

ECON-355 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

ECON-395 Independent Study

See department for details. Independent study contract required.

ECON-452 Global Finance

Global Finance presents the corporate uses of global financial markets. Combining practical knowledge, up-to-date theories, and real-world applications, this course explores issues of currencies, foreign exchange, VaR, funds, and risk management. Also listed as BA 452. Prerequisite: BA 305 with a minimum grade of C- or ECON 331 with a minimum grade of C-. 4 credits.

ECON-475 Internship

See department for details. Internship contract required. 0-6 credits.

ECON-490 Senior Seminar

Students will develop a deep understanding of several economic policy issues by reading both popular press and scholarly literature. Students will learn how to read economic journal articles presenting theoretical and empirical research results. The course will also provide students with an understanding of where and how to collect data used in economic analysis, and the limitations that the use of data imposes on economic inference. Students will develop proposals and identify data sets for their own empirical projects to test a hypothesis related to one the topics covered in the course. Those projects will be completed in the senior thesis course (ECON 495). Prerequisites: ECON 321, ECON 327, ECON 328. Instructor Consent. 2 credits.

ECON-495 Senior Thesis

Students work in consultation with their primary advisor to carry out the research plan developed in the Fall. Students present the results of their research to peers and faculty then revise their theses to address the critical feedback they receive. Prerequisite: ECON 485 or ECON 490 and declared Economics major. 2 credits.

EDITING AND PUBLISHING

Kathlene Postma, Mike Geraci, Keya Mitra

Students in Pacific University's editing and publishing minor study writing, communication, and the art and business of digital and traditional publishing. They develop their skills through multidisciplinary courses in art, business, English and media arts, along with practical experience with the student newspaper and the University's literary journal and scholarly journals, as well as on- and off-campus jobs and internships. Editing and publishing is a strong complement to any program of study for students who want to learn marketable skills in online and print communication.

Interested students are strongly encouraged to contact Kathlene Postma in the English department no later than the spring of their sophomore year.

Program Learning Outcomes

The English Department teaches students to develop the following skills, which are relevant to most contemporary careers:

- Develop working knowledge of the principal works, authors, genres, and periods of American and British literatures.
- Possess an awareness of alternatively defined traditions and/or genres, such as women's literature, postcolonial literature, world literature, or Native American literature.
- Understand texts in their cultural and historical contexts.
- Demonstrate coherent writing in multiple genres (literary analysis and creative writing) as well as an awareness of critical and interpretive methods.
- Analyze literature using appropriate terminology and common rhetorical figures.
- Demonstrate judicious use of secondary material and appropriate documentation.
- Demonstrate awareness of different critical approaches.
- Perform competent close readings of texts.

Editing and Publishing: Requirements for the Minor

All of the following courses:		8 credits
MEDA 122	Introduction to Digital Media (2 credits)	
MEDA 363	Publication, Editing, and Design (4 credits)	
ENGW 475	Internship (2 credits)	
One of the following courses:		4 credits
ENGW 201	Expository Writing	
ENGW 202	Writing About Disability	
ENGW 203	Professional Writing and Editing (recommended)	
One or more of the following courses:		2 credits
ENGW 304	Writing: Book Editing and Design II	
ENGW 466	Literary Magazine Production	
Two or more of the following courses:		8 credits
ARTST 239	The Artist Book I	
ARTST 339	The Artist Book II	
BA 309	Marketing	
BA 410	Marketing Research	
BA 440	Advertising and Promotion	
ENGW 304	Writing: Book Editing and Design II*	
ENGL 431	Literature & Publishing: Special Topics	
ENGW 466	Literary Magazine Production*	
MEDA 150	Pacific Index	
MEDA 265	Web Design	
MEDA 450	Pacific Index – Management	

TOTAL: 22 credits

*If not used for the previous category

ENGINEERING

Kevin Johnson

Engineering schools recognize that students who come into engineering from a liberal arts background frequently have a broader perspective than the average engineering student. Therefore, engineering schools often look for opportunities to recruit students from liberal arts institutions. In order to provide pathways into engineering for students, Pacific offers both an Engineering Science major and Dual Degree program options.

Program Learning Outcomes

Graduates of the engineering program will have:

- an ability to apply principles of mathematics, science, and engineering in a variety of contexts.
- an ability to use the techniques, skills, and tools necessary for science and engineering practice.
- an ability to design and conduct experiments, as well as to analyze and interpret data.
- an ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability and sustainability.
- an ability to participate in projects that cross disciplines and to function on multi-disciplinary teams.
- an ability to identify, formulate, and solve engineering problems.
- an understanding of professional and ethical responsibility
- an ability to communicate effectively
- the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental and societal context.
- a recognition of the need for, and an ability to engage in life-long learning.
- a knowledge of contemporary issues.

Engineering Science: Requirements for the Major

- One minor from among the following:
 - Applied Physics
 - Biology
 - Chemistry
 - Computer Science
 - Environmental Science
 - Exercise Science
 - Mathematics
- A minimum of 24 semester credits in engineering courses from an approved engineering program at another institution.
 - Of the courses used to satisfy the major, at least 24 credits must be at the 300 level or above, or equivalent, and at least 4 credits must be at the 400 level, or equivalent.

Approved coursework taken at the engineering institution along with an approved public presentation will satisfy the requirements for the Senior Capstone.

Engineering Dual Degree Options

A dual degree program is a 3-2 transfer program in which the student spends three years at Pacific followed by two years at an engineering school. While at Pacific, the student completes the liberal arts core, makes significant progress toward a Pacific major and degree, and completes the prerequisite courses necessary for admission into the engineering school. The student then transfers to the engineering school for two years of further education in science and engineering. An important aspect of a dual degree program is that the completion of the liberal arts core provides breadth in humanities and social sciences, which is desirable for scientists in industry. Upon completion of the dual degree program, the student receives a Bachelor of Science in an Arts & Sciences discipline from Pacific and a Bachelor of Science in engineering from the engineering school.

Pacific offers two dual degree options for students:

1. Formal dual degree programs with partner institutions
2. Approved informal dual degree programs

Requirements for Pacific BS degrees within a dual degree program

Dual degree students may work toward many available Arts & Sciences majors for their Pacific BS degree, including the Engineering Science major. Students must complete all requirements for the Pacific BS degree within the major of their choice, often by substituting courses from the engineering school for courses required of their Pacific major. Any courses from the engineering school that are substituted for courses required of the Pacific major must be approved by the department chair of that major. Students should work carefully with the engineering dual degree advisor at Pacific, their academic advisor, and the department chair of their major field of study to plan their path through the program, to ensure that they fulfill the necessary prerequisite courses for admission into the engineering school and are able to complete their desired major at Pacific.

Students pursuing an approved dual degree engineering program will have different residency requirements at Pacific University. In particular, these students will not be required to take 30 of their last 40 semester credits at Pacific.

Dual Degree Program with Case Western Reserve University

Pacific University has established a formal dual degree program with the School of Engineering at Case Western Reserve University. A complete range of engineering specialties is available at Case including aerospace, biomedical, chemical, civil, computer, electrical, mechanical and systems engineering.

Prerequisites for admission

The following are required for admission into the dual degree program at Case:

- Arts & Sciences academic core (except Capstone)
- CHEM 220-230 General Chemistry I-II 8 credits
- CS150* Introduction to Computer Science I 4 credits
- MATH 226-228 Calculus I-III 12 credits
- MATH 311 Differential Equations 4 credits
- PHY 232-242 General Physics I-II 8 credits
- 90 semester credits (including those listed above)

* If interested in Computer Engineering at Case, CS 250: Introduction to Computer Science II also is required.

Additionally, students must earn an overall grade point average of 3.0 and a grade point average of 3.0 in Math and Science courses. Students who meet these prerequisite requirements must apply to Case for admission into the School of Engineering. It is likely that those students will be accepted into the program, but it is not guaranteed.

Dual Degree Program with Portland State University

Pacific also has established a "3 + 2" program with Portland State leading to a BS from Pacific and a Bachelor of Science in Civil Engineering or in Environmental Engineering from Portland State.

Prerequisites for admission

The following are required for admission into the dual degree program at PSU:

- A minimum of 90 semester credits earned at Pacific
- A cumulative GPA of at least 3.0
- A cumulative GPA of at least 3.0 in all Pacific math and science courses
- Meeting the minimum PSU admission requirements
- Be in disciplinary good standing at Pacific

Informal Dual Degree Programs

It is common for Pacific students to enroll in engineering programs (such as Oregon State or Portland State) through transfer or after completion of their degree at Pacific. If a dual degree program is being pursued at a school without a formal agreement with Pacific, the department chairs in Pacific's School of Natural Sciences must approve the program. Requirements for admission into these programs are unique to each school, but admission is likely for those students who maintain at least a 3.0 grade point average and who are recommended by the Pacific University School of Natural Sciences faculty.

Advising

It may be difficult to complete the necessary coursework during the 5-year duration of dual degree programs. Careful planning is necessary; students should consult with the engineering dual degree advisor at Pacific as soon as possible (Kevin Johnson; johnsonk@pacificu.edu).

ENGLISH

Tim Thompson, Chair; Keya Mitra, Director of Creative Writing; Alex Bove, Lisa Carstens, Brent Johnson, Darlene Pagán (sabbatical), Kathlene Postma, Steve Smith, Elizabeth Tavares, Doyle Walls

The faculty of the English Department brings to its teaching a wide range of experience, training, and perspectives; students benefit from exposure to a variety of teaching styles and approaches to the reading, writing, and enjoyment of literature. Each member of the department brings his or her passions into the classroom: we are all active writers—and remain active in the larger community of writers and scholars—presenting or publishing scholarship, poetry, fiction, drama, or essays. In addition to offering the University community the work of visiting writers, the department also presents public readings and lectures by noted visiting poets, essayists, and novelists.

Students may choose to major or minor in literature or creative writing, as well as minor in the interdisciplinary editing and publishing. These emphases encourage students to do work across disciplines and to recognize the connections between the study of literature in English and the work that they do in other fields as they seek a liberal arts education. Creative writing majors and minors are required to take part in editing and publishing PLUM, the University literary magazine, and Silk Road, the international journal edited by our undergraduate and graduate writing students. We encourage literature majors and minors, as well as other students, to take advantage of the opportunity to produce literature. Our majors in both literature and creative writing frequently go on to study in graduate school; teach in high schools and colleges; and use their thinking and writing skills in law school, medical school, television, technical writing, publishing, library science, special education, and social work, among others. They also go on to publish their own works and to present public readings.

The English Department offers students guidance in acquiring and developing the skills of interpretation, critical thinking, and clear writing. For students choosing to specialize in literature or creative writing, the curriculum offers the opportunity to engage the literary traditions of Britain and the United States, as well as world literatures, and to enter into the theory and practice of literature itself. We also welcome non-major or minor students to explore the world of letters in any courses the department offers, provided they have fulfilled departmental prerequisites for these courses.

Program Learning Outcomes

The English Department teaches students to develop the following skills, which are relevant to most contemporary careers:

- to understand and to engage the principles of literary analysis and the evolving tradition of literature and writing in English
- to engage in reflective critical reading
- to articulate their responses, ideas, and analyses clearly and powerfully
- to cultivate speaking skills in both formal and informal settings
- to recognize the various contexts that shape texts and our responses to them
- to examine how meaning is constructed in various genres, traditions, periods, and cultures
- to consider the ethical questions that confront the writer and reader as creators and consumers of texts and as members of society
- to apply these skills in graduate school and in a variety of careers

English Department Program Goals

1. Develop working knowledge of the principal works, authors, genres, and periods of American and British literatures.
2. Possess an awareness of alternatively defined traditions and/or genres, such as women's literature, postcolonial literature, world literature, or Native American literature.
3. Understand texts in their culture and historic contexts.
4. Demonstrate coherent writing in multiple genres (literary analysis and creative writing) as well as an awareness of critical and interpretive methods.
5. Analyze literature using appropriate terminology and common rhetorical figures.
6. Demonstrate judicious use of secondary material and appropriate documentation.
7. Demonstrate awareness of different critical approaches.
8. Perform competent close readings of texts.

Creative Writing Admission Procedures for Majors and Minors

To major or minor in creative writing, students must:

- take ENGW 201, 202 or 203 (this applies to transfer students as well, unless they transfer with the equivalent of ENGW 201)
- complete two courses from ENGW 206, 208, and 209 with a B or higher grade

Students are encouraged to take ENGW 201, 202, or 203 in the spring semester of their first year.

Creative Writing: Requirements for the Major

ENGW 305	Research Methods in the Humanities	2 credits
ENGW 466	Literary Magazine Production (Pass/No Pass; may be repeated for credit)	2 credits
ENGW 497 and 498	Senior Seminar in Creative Writing (4 credits; 2 credits/semester)	

At least one course (4 credits) from the following requirements must be in U. S. literature:

Eight credits from the following:		8 credits
ENGW 206	Creative Writing, Poetry	
ENGW 208	Creative Writing, Fiction	
ENGW 209	Creative Writing, Nonfiction	
Four credits from the following:		4 credits
ENGL 220	Literature and Human Concerns (Topics Vary)	
ENGL 221	Literature and Disability	
ENGL 223	Native American Literature	
ENGL 227	World Literature: Magical Realism	
ENGL 229	U.S. Literature	
ENGL 232	British Literature	
ENGL 236	Postmodernism in Film and Literature	
ENGL 255	(Topics Vary)	
Eight credits from the following:		8 credits
ENGW 306	Advanced Poetry Writing	
ENGW 308	Advanced Fiction Writing	
ENGW 309	Advanced Creative Nonfiction Writing	
Four credits from the following:		4 credits
ENGW 206	Creative Writing Poetry	
ENGW 208	Creative Writing Fiction	

ENGW 209 Creative Writing Nonfiction
 ENGW 222 Travel Writing Prep
 ENGW 226 Travel Writing
 ENGW 306 Advanced Poetry Writing
 ENGW 308 Advanced Fiction Writing
 ENGW 309 Advanced Creative Nonfiction Writing
 ENGW 322 Travel, Write and Publish Prep
 ENGW 326 Travel, Write and Publish
 MEDA 332 Screenwriting
 THEA 380 Playwriting Seminar

Eight credits from the following: 8 credits
 ENGL 340 Studies in Drama
 ENGL 341 Studies in Poetry
 ENGL 342 Studies in Fiction
 ENGL 343 Studies in Criticism and Theory
 ENGL 344 Studies in Creative Nonfiction

Eight credits from the following: 8 credits
 ENGL 323 Shakespeare
 ENGL 324 PostCol Lit Tales of Conquests Retold
 ENGL 336 Postmodernism in Film and Literature II
 ENGL 417 British Literature, Beowulf to Swift
 ENGL 421 The Romantic Period
 ENGL 422 The Victorian Period
 ENGL 423 Nineteenth-Century American Literature
 ENGL 425 Twentieth-Century Literature
 ENGL 430 Major Writers (specific authors vary)
 ENGL 431 Literature & Publishing: Special Topics
 ENGL 455 Special Topics (Topics Vary)

Upper-division course in a world language literature course; requires world language proficiency; only one WORL course can be used for this upper-level course requirement

TOTAL: 48 credits

Literature: Requirements for the Major

Eight credits from the following: 8 credits
 ENGL 220 Literature and Human Concerns (Topics Vary)
 ENGL 221 Literature and Disability
 ENGL 223 Native American Literature
 ENGL 227 World Literature
 ENGL 229 U.S. Literature
 ENGL 232 British Literature
 ENGL 236 Postmodernism in Film and Literature
 ENGL 255 Special Topics

Four credits from the following: 4 credits
 ENGW 206 Creative Writing Poetry
 ENGW 208 Creative Writing Fiction
 ENGW 209 Creative Writing Nonfiction
 ENGW 222 Travel Writing Prep
 ENGW 226 Travel Writing

Eight credits from the following: 8 credits
 ENGL 340 Studies in Drama
 ENGL 341 Studies in Poetry
 ENGL 342 Studies in Fiction
 ENGL 344 Studies in Creative Nonfiction
 Upper-division course in a world language (only one course can be used for this requirement)*

Eight credits from the following: 8 credits
 ENGL 324 PostCol Lit Tales of Conquests Retold
 ENGL 336 Postmodernism in Film and Literature II
 ENGL 417 British Literature, Beowulf to Swift
 ENGL 421 The Romantic Period
 ENGL 422 The Victorian Period
 ENGL 423 Nineteenth-Century American Literature
 ENGL 425 Twentieth-Century Anglo-American Literature (including British and U.S. ethnic literature)
 ENGL 430 Major Writers (specific authors vary)
 ENGL 431 Literature & Publishing: Special Topics
 ENGL 455 Special Topics (Topics Vary)

All of the following courses: 4 credits
 One European, British or US history course from Middle Ages to present
 PHIL 304 Philosophy of Art 4 credits
 ENGW 305 Research Methods in Humanities 2 credits
 ENGL 323 Shakespeare 4 credits
 ENGL 343 Studies in Criticism and Theory 4 credits
 ENGL 495 Senior Seminar in Literature I 2 credits
 ENGL 496 Senior Seminar in Literature II 2 credits

TOTAL: 50 credits

* requires world language proficiency; must be a literature course

Creative Writing: Requirements for the Minor

Eight credits from the following: 8 credits
 ENGW 206 Creative Writing, Poetry
 ENGW 208 Creative Writing, Fiction
 ENGW 209 Creative Writing, Creative Nonfiction
 ENGW 222 Travel Writing Prep
 ENGW 226 Travel Writing

Four credits from the following: 4 credits
 ENGL 220 Literature and Human Concerns (Topics Vary)
 ENGL 221 Literature and Disability
 ENGL 223 Native American Literature
 ENGL 227 World Literature: Magical Realism
 ENGL 229 U.S. Literature
 ENGL 232 British Literature
 ENGL 236 Postmodernism in Film and Literature
 ENGL 255 Special Topics (Topics Vary)
 ENGL 323 Shakespeare

Four credits from the following: 4 credits
 ENGW 306 Advanced Poetry Writing
 ENGW 308 Advanced Fiction Writing
 ENGW 309 Advanced Creative Nonfiction
 ENGW 322 Travel, Write and Publish Prep
 ENGW 326 Travel, Write and Publish

Four credits from the following: 4 credits
 ENGL 340 Studies in Drama
 ENGL 341 Studies in Poetry
 ENGL 342 Studies in Fiction
 ENGL 344 Studies in Creative Nonfiction
 ENGW 466 Literary Magazine Production (2 credits)

TOTAL: 22 credits

Editing and Publishing: Requirements for the Minor

All of the following courses: 8 credits
 MEDA 122 Introduction to Digital Media (2 credits)
 MEDA 363 Publication, Editing, and Design (4 credits)
 ENGW 475 Internship (2 credits)

One of the following courses: 4 credits
 ENGW 201 Expository Writing
 ENGW 202 Writing About Disability
 ENGW 203 Professional Writing and Editing (recommended)

One or more of the following courses: 2 credits
 ENGW 304 Writing: Book Editing and Design II
 ENGW 466 Literary Magazine Production

Two or more of the following courses: 8 credits
 ARTST 239 The Artist Book I
 ARTST 339 The Artist Book II
 BA 309 Marketing
 BA 410 Marketing Research
 BA 440 Advertising and Promotion
 ENGW 304 Writing: Book Editing and Design II*
 ENGL 431 Literature & Publishing: Special Topics
 ENGW 466 Literary Magazine Production*
 MEDA 150 Pacific Index
 MEDA 265 Web Design
 MEDA 450 Pacific Index – Management

TOTAL: 22 credits

*If not used for the previous category.

Literature: Requirements for the Minor

Eight credits from the following: 8 credits
 ENGL 220 Literature and Human Concerns (Topics Vary)
 ENGL 221 Literature and Disability
 ENGL 223 Native American Literature
 ENGL 227 World Literature: Magical Realism
 ENGL 229 U.S. Literature
 ENGL 232 British Literature
 ENGL 236 Postmodernism in Film and Literature
 ENGL 255 Special Topics (Topics Vary)

Twelve credits from the following: 12 credits
 ENGL 323 Shakespeare
 ENGL 324 PostCol Lit: Tales of Conquests Retold
 ENGL 336 Postmodernism in Film and Literature II
 ENGL 340 Studies in Drama

ENGL 341	Studies in Poetry
ENGL 342	Studies in Fiction
ENGL 343	Studies in Criticism and Theory
ENGL 344	Studies in Creative Nonfiction
ENGL 417	British Literature, Beowulf to Swift
ENGL 421	The Romantic Period
ENGL 422	The Victorian Period
ENGL 423	Nineteenth-Century American Literature
ENGL 425	Twentieth-Century Literature
ENGL 430	Major Writers (authors vary)
ENGL 431	Literature & Publishing: Special Topics
ENGL 455	(Topics Vary)

TOTAL: 20 credits

COURSES

ENGL-155 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

ENGL-195 Independent Study

See department for details. Independent Study contract required.

ENGL-220 Literature and Human Concerns

A study of important ideas and problems as they are reflected in the world's literature. War, racism, death, censorship, film, civil disobedience, minority literature, and the Holocaust are examples of characteristic topics. Please see department for additional information on specific offerings. May be repeated for credit when content varies. 2-4 credits.

ENGL-221 Disability and Literature

The historian Sander Gilman calls literature "the art of writing down a culture's dreams." It is interesting to note, then, how many of Western culture's dreams are of the physically or mentally different, the monstrous (so-perceived) and the maimed, the crippled and the crazed. From Sophocles' Philoctetes to Dunn's Geek Love, this course explores how and why authors of various periods have imagined and represented physical and cognitive difference. 4 credits.

ENGL-223 Native American Literature

This course will examine narrative styles and themes in Native American literature, and focus on how such literature embodies traditional American Indian concepts of identity, time, space, spirit, history, and community. How Native American literature adapts oral literature and its traditions to the requirements of written literature is central to the course. The course also includes study of myths, pastiche, and humor as literary modes employed to challenge stereotypical depictions of "the Indian" in dominant Western culture. Authors include Linda Hogan, Louise Erdrich, N. Scott Momaday, Leslie Marmon Silko, Joy Harjo, Sherman Alexie, James Welch, Paula Gunn Allen. Counts toward core requirement: Civic Engagement, Diverse Perspectives. 4 credits.

ENGL-227 World Literature: Magical Realism

An introduction to literature drawn from Western and non-Western cultures, organized around a theme, a literary problem, or the examination of a political condition. Ordinarily, the reading lists will include several genres. Counts toward core requirement: International Perspectives. 4 credits.

ENGL-229 U.S. Literature

An introduction to selected American authors and themes. 4 credits.

ENGL-232 British Literature

An introduction to selected British writers and themes. 4 credits.

ENGL-236 Postmodernism in Film and Literature

Traces postmodernism from its origins to the present, providing a historical, cultural, and theoretical context to frame discussions of such postmodernist authors as Beckett, Borges and Calvino, and film directors such as Haneke, the Coen brothers and Spike Jonze. We will consider how typical postmodernist techniques, such as the settling of frames within frames, the mosaic of merging of genres and styles, and the use of hyperspace, reflect post-WWII shifts in politics and philosophy. Overall, we will develop an understanding of the fundamental concepts that make postmodernism, such as fragmentation, mise-en-abyme, play, decentering, simulacra, and metafiction. Counts toward core requirement: International Perspectives. 2 credits.

ENGL-255 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

ENGL-275 Internship

See department for details. Internship contract required. 1-4 credits.

ENGL-295 Independent Study

See department for details. Independent study contract required. 1-18 credits.

ENGL-320 Advanced Literature & Human Concerns

An advanced study of important ideas and problems as they are reflected in the world's literature. War, racism, death, censorship, film, civil disobedience, minority literature, and the Holocaust are examples of characteristic topics. Advanced study will include a research component for investigating the literature in a more substantive manner than the lower division section of this same course. Please see department for additional information on specific offerings. May be repeated for credit when content varies. 2-4 credits.

ENGL-323 Shakespeare

An analysis of Shakespeare's major plays with emphasis on both literary and theatrical qualities. Prerequisite: 2 credits of 200-level ENGL. Offered every year. 4 credits.

ENGL-324 PostCol Lit:Tales of Conquests Retold

We will explore African, Indian, Latino, Caribbean, Eastern-European, and/or Middle-Eastern texts that examine the psychological, political, and cultural effects of colonization and decolonization. We will delve into the power shifts and issues of trauma and identity that accompany decolonization. Furthermore, we will examine historical examples of decolonization and investigate contemporary manifestations of colonization through discussing the complex consequences of globalization, a "new" imperialism, and nationalism. Counts toward core requirement: International Perspectives. Prerequisite: 2 credits of 200-level ENGL. 4 credits.

ENGL-336 Postmodernism in Film and Literature II

Traces postmodernism from its origins to the present, providing a historical, cultural, and theoretical context to frame discussions of such postmodernist authors as Beckett, Borges and Calvino, and film directors such as Haneke, the Coen Brothers and Spike Jonze. We will consider how typical postmodernist techniques, such as the setting of frames within frames, the mosaic merging of genres and styles, and the use of hyperspace, reflect post WWII shifts in politics and philosophy. Upper-level students will have advanced readings and assignments on the concepts of postmodernism, such as fragmentation, mise-en-abyme, play, decentering, simulacra, and metafiction. Counts toward core requirement: International Perspectives. Prerequisite: 2 credits of 200-level ENGL. 2 credits.

ENGL-337 Making of Medieval English Literature

An advanced study of the major works of Anglo-Norman and Middle English literature (673-1485 CE), whose production was informed by vernacular developments in religious life, commonwealth politics, and the rise of the individual. Questions of individual and collective subjectivities will be explored via early Anglo-Saxon poetry, "Beowulf," "Sir Gawain and the Green Knight," "Everyman," and other mystery cycle plays, as well as works by Geoffrey of Manmouth, Marie de France, Geoffrey Chaucer, Margery Kempe, and Sir Thomas Mallory, among others. Prerequisites: ENGW 201. 4 credits.

ENGL-338 English Renaissance Literature

An advanced study of the major works of the English Renaissance (1485-1660 CE) exploring the question: how does a culture make itself again or see itself anew? This question will be explored via poetic movements illustrated by Sir Thomas Wyatt, Sir Philip Sidney, John Donne, George Herbert, and Andrew Marvell; developments in political thought via Thomas More, Elizabeth I, Sir Francis Bacon, Thomas Hobbes, and John Milton; the dramatic output of John Lyly, William Shakespeare, and Christopher Marlowe; and the representation of female and minority voices with the works of Anne Askew, Amelia Lanyer, and Margaret Cavendish among others. Prerequisite: ENGW 201. 4 credits.

ENGL-340 Studies in Drama

The reading and analysis of chief European and American playwrights from the authors of the morality plays to the present, with some consideration of the dramaturgy involved in the production of plays. Prerequisite: 2 credits of 200-level ENGL. Offered every year. 4 credits.

ENGL-341 Studies in Poetry

An upper level introduction to reading poetry, with an emphasis on structure, traditional models, periods and interpretation. Prerequisite: 2 credits of 200-level ENGL. Offered every year. 4 credits.

ENGL-342 Studies in Fiction

A study of the development of the short story and novel, with an emphasis on exploring interpretive models. Also listed GSS 342 when content allows. Prerequisite: 2 credits of 200-level ENGL. Offered every year. 4 credits.

ENGL-343 Studies in Criticism & Theory

A study and application of some of the critical and theoretical approaches used in the study of literature. Also listed as PHIL 343. Prerequisite: 2 credits of 200-level ENGL. Offered alternate years. 4 credits.

ENGL-344 Studies in Creative Nonfiction

A study of the various modes of creative nonfiction in history (personal essays, journalism, travel and nature writing, memoirs, lyric, etc.) and the more recent controversy over the collision of factual stories employing literary techniques. Prerequisite: 2 credits of 200-level ENGL. 4 credits.

ENGL-355 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

ENGL-395 Independent Study

See department for details. Independent Study contract required.

ENGL-421 The Romantic Period

An advanced study of the poetry and poetics and prose of the Romantic Period of British Literature, with special emphasis on the affects on a variety of poets of the emerging Industrial Revolution, the French Revolution and its aftermath, and new paradigms of thought in the way people perceived nature and gender roles, among other topics. Prerequisite: Junior standing or above (60 or more completed credits) and 2 courses (minimum 2 credits each) from 200-level ENGL or above. Offered alternate years. 4 credits.

ENGL-422 The Victorian Period

An advanced study of several literary genres during the Victorian Period of British Literature (1837-1901), with special emphasis on the affects on authors of the triumph of the Industrial Revolution, the rise of Darwin's theories, the challenges to religious and social orthodoxies, and changes in aesthetics, among other topics. Authors to be studied could include such figures as Austen, Dickens, Eliot, Tennyson, the Rossetts, Arnold, Swinburne, Hopkins, Ruskin, Shaw, Gissing, the Brownings, Mill, and others. Prerequisite: Junior standing or above (60 or more completed credits) and 2 courses (minimum 2 credits each) from 200-level ENGL or above. Offered alternate years. 4 credits.

ENGL-423 The American Romantics

Intensive study in the period including such writers as Irving, Poe, Hawthorne, Emerson, Thoreau, Dickinson, Whitman, Gilman, and the literature of slavery and abolition. Prerequisite: Junior standing or above (60 or more completed credits) and 2 courses (minimum 2 credits each) from 200-level ENGL or above. 4 credits.

ENGL-425 Studies in 20th Century Literature

In-depth studies of the major movements in Twentieth Century Literature. Not a survey class, the content will vary. The focus may be on a particular genre. Prerequisite: Junior standing or above (60 or more completed credits) and 2 courses (minimum 2 credits each) from 200-level ENGL or above. Offered intermittently. 4 credits.

ENGL-430 Major Writers

A detailed study of the works of selected writers; for example, Chaucer, Milton, Dickens, Blake, Yeats, Thoreau, Woolf. Also listed as GSS 430 when content allows. Prerequisite: Junior standing or above (60 or more completed credits) and 2 courses (minimum 2 credits each) from 200-level ENGL or above. May be repeated once for credit when content varies. Offered intermittently. 4 credits.

ENGL-431 Literature & Publishing: Special Topics

An in-depth study of a Major Writer with the background material of his or her experiences with publishing. Each section of the course will explore the works of an author within the historical, technological and economic context of his/her contemporary modes of publication. For example: Dickens' experience provides a particularly illustrative example of serialized publication practices and their influences on the style of 19th century fiction. Prerequisite: Junior standing or above (60 or more completed credits) and 2 courses (minimum 2 credits each) from ENGL 200-level or above. 4 credits.

ENGL-455 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

ENGL-475 Internship

See department for details. Internship contract required.

ENGL-495 Senior Seminar: Literature

Students in this capstone experience for literature majors will discuss the state of literature, criticism, and writers in contemporary society, reflecting on the tradition of literature and literary study, and develop, present, and critique original critical work. Students will produce a 20-30 page thesis, with annotated bibliography, and present their work publicly. Prerequisite: Senior standing (90 or more completed credits) and declared Literature major. Offered every year. 2 credits.

ENGL-496 Senior Seminar: Literature

Students in this capstone experience for literature majors will discuss the state of literature, criticism, and writers in contemporary society, reflecting on the tradition of literature and literary study, and develop, present, and critique original critical work. Students will produce a 20-30 page thesis, with annotated bibliography, and present their work publicly. Prerequisite: ENGL 495. Offered every year. 2 credits.

ENGW-201 Expository Writing

An expository writing course in which various topics and genres are used to help students develop and evidence critical thinking skills, understand rhetorical methods, and shape effective prose styles. Students will be writing expository essays and a research paper. Some sections focus on a particular theme. Prerequisite: Sophomore standing or above (30 or more completed credits). Counts toward core requirement: Writing. Students may take ENGW 201 or ENGW 202 or ENGW 203 to satisfy the core, but may only earn credit for one of these courses. 4 credits.

ENGW-202 Writing About Disability

This is both a writing intensive course and an introduction to Disability Studies. Disability Studies understands disability as referring not only to a biological or medical condition, but also to a community of people (the largest minority in the U.S.); to a civil rights movement; to a complex set of social and ethical issues; to a universal human experience; and to the ways cultures respond to particular bodies, minds, and behaviors. The class, taught with the assistance of two faculty from Pacific's School of Physical Therapy, will help students understand disability in its social, cultural, and ethical dimensions. It will also help students develop critical thinking skills, understand rhetorical methods, and shape effective prose styles through writing expository essays and a research paper. Prerequisite: Sophomore standing or above (30 or more completed credits). Counts toward core requirement: Writing and Civic Engagement. Students may take ENGW 201 or ENGW 202 or ENGW 203 to satisfy the core but may only earn credit for one of these courses. 4 credits.

ENGW-203 Writing: Book Editing and Design I

Professional Writing and Editing is a writing intensive class in which students will write analytical, expository, and creative essays with the goal of developing a portfolio of professional writing, including a research paper. The class will also include practical training in editing techniques, including developmental editing, copyediting, and proofreading. Students will develop critical thinking skills, sharpen and deepen their creative work, and understand the role editing plays in developing concise, effective prose. Because students will be working with more advanced peers enrolled in ENGW 304, they will, with the assistance of student mentors, collaborate with student writers to organize their critical and creative work into a larger collection of student writing (edited by ENGW 304 students and made available for purchase). Students enrolled in ENGW 203 will actively be working with the more advanced publishing and editing minors (enrolled under ENGW 304) to gain a more sophisticated understanding of how to design a collection of writing. Prerequisite: Sophomore standing or above (30 or more completed credits). Counts toward core requirement: Writing. Students may take ENGW 201 or ENGW 202 or ENGW 203 to satisfy the core but may only earn credit for one of these courses. Students may receive credit for both ENGW 203 and ENGW 304. Credits: 4.00

ENGW-206 Creative Writing, Poetry

An introduction to writing poetry. Prerequisite: ENGW 201 or ENGW 202 with minimum grade C-. 4 credits.

ENGW-207 Mixed Genres

An introduction to writing in two or more of the following genres: short fiction, drama, poetry, and the personal essay. Prerequisite: ENGW 201 or ENGW 202 with a minimum grade of C-. 4 credits.

ENGW-208 Creative Writing, Fiction

An introduction to writing fiction. Prerequisite: ENGW-201 or ENGW-202 with a minimum grade of C-. 4 credits.

ENGW-209 Creative Writing, Nonfiction

An introduction to creative nonfiction. Prerequisite: ENGW-201 or ENGW-202 with a minimum grade of C-. 4 credits.

ENGW-222 Travel Writing Prep

The class prepares students for ENGW 226: Travel Writing. This semester long course will provide students the necessary skills pertinent to writing in response to travel. Students will be exposed to the various modes of writing within the genre through readings and practice those modes through their own writing about place in a variety of forms such as blogs, essays, memoir, guidebooks, articles, etc. A specific focus on journal keeping, observational skills, and strong, narrative based prose will provide a solid foundation for students seeking an introduction to travel writing. Counts towards core requirement: International Perspectives. 2 credits.

ENGW-226 Travel Writing

Provides students the opportunity to apply the skills learned in the Preparation for Travel Writing course while traveling abroad. By immersing themselves in another culture and place, students will practice the skills of effective journaling, deep observation, and descriptive writing. Upon return from travel, students should be equipped with both the skills and material to craft an engaging, travel story. Counts towards core requirement: International Perspectives. Corequisite: ENGW 222. 2 credits.

ENGW-255 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

ENGW-275 Internship

See department for details. Internship contract required. 1-4 credits.

ENGW-295 Independent Study

See department for details. Independent study contract required.

ENGW-303 Tutoring in Writing Skills

Tutoring in Writing Skills prepares students working in the Writing Resource Center to consult with peers on their writing. Through reflection, discussion, and practice with their own writing and tutoring processes, students will gain a deeper understanding not only of themselves as writers but also as mentors to others in their writing. 1 credit.

ENGW-304 Writing: Book Editing and Design II

This writing-intensive course simulates a working arts environment in which students will work on expository, analytical, and creative essays, including a research paper, and collaborate with their peers to create a compilation of student writing. ENGW 304 students will play a significant role in the design, editing, and marketing of the collection. ENGW 304 students will mentor their ENGW 203 peers in publishing and editing while expanding their own knowledge of book

design and promotion. The topic of the course rotates: students may choose a social, humanitarian, arts, or science focus for their collective project. Students must have taken ENGW 201 or ENGW 202 or ENGW 203 with a minimum C- to satisfy the core but may only earn credit for one of these courses. Students may receive credit for both ENGW 304 and ENGW 203. 4 credits.

ENGW-305 Research Methods in English

This required class for English Literature Majors will concentrate not only on the up-to-date methods of research used for writing in the Humanities, but also the traditional methods of pursuing a topic, note-taking, assimilation of materials and the presentation, written and oral, of completed research. The class is also open to non-English majors in the Humanities. Prerequisite: Junior standing or above (60 or more completed credits). 2 credits.

ENGW-306 Advanced Poetry Writing

A workshop for writing and discussing poetry. Prerequisite: ENGW 201 or ENGW 202 with a minimum grade of C- and ENGW 206 with a minimum grade of B. 4 credits.

ENGW-308 Advanced Fiction Writing

A workshop for writing and discussing fiction. Prerequisite: ENGW 201 or ENGW 202 with a minimum grade of C- and ENGW 208 with a minimum grade of B. 4 credits.

ENGW-309 Advanced Creative Nonfiction

A workshop for writing and discussing creative nonfiction. Prerequisite: ENGW 201 or ENGW 202 with a minimum grade of C- and ENGW 209 with a minimum grade of B. 4 credits.

ENGW-322 Travel, Write and Publish Prep

Prepares students for ENGW 326: Travel, Write, & Publish. Will provide students the necessary skills pertinent to writing in response to travel. Students will be exposed to the various modes of writing within the genre through readings and practice those modes through their own writing about place and publishing such writing in a variety of forms such as blogs, essays, memoir, guidebooks, articles, etc. A specific focus on journal keeping, observational skills, and strong, narrative based prose will combine with an aim to publishing original work. Prerequisites: ENGW 201, 202, or 203. Counts towards Literature and Creative Writing major writing requirement. 2 credits.

ENGW-326 Travel, Write and Publish

Provides students the opportunity to apply the skills learned in the preparation for travel in Travel, Write, and Publish course while traveling abroad. By immersing themselves in another culture and place, students will practice the skills of effective journaling, deep observation, and descriptive writing. Upon return from travel, students should be equipped with both the skills and material to craft an engaging, travel story, and identify outlets for publishing their original work. Prerequisites: 322 Travel Writing Prep and Engw 201, 202, or 203. Counts towards the International Perspective (IP) core requirement. 2 credits.

ENGW-355 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

ENGW-395 Independent Study

See department for details. Independent study contract required.

ENGW-455 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

ENGW-466 Literary Magazine Production

A course in literary magazine production. Students work with graduate students in Pacific's MFA in Writing program to produce a nationally distributed literary review. May be repeated for credit. Pass/No Pass. 2 credits.

ENGW-475 Internship

See department for details. Internship contract required.

ENGW-495 Independent Study

See department for details. Independent Study contract required. 1-18 credits.

ENGW-497 Senior Seminar: Creative Writing

Creative Writing majors will study and write about the work of a writer or writers, addressing craft or technique, including influences upon that writer and the work(s). Prerequisite: Senior standing (90 or more completed credits); and ENGW 306, ENGW 308, ENGW 309, or ENGW 310. 2 credits.

ENGW-498 Senior Seminar: Creative Writing

Creative Writing majors will study and write about the work of a writer or writers, addressing craft or technique, including influences upon that writer and the work(s). Prerequisite: ENGW 497. 2 credits.

ENVIRONMENTAL STUDIES

Deke Gundersen, Chair; Richard Van Buskirk

The Environmental Studies Department (www.pacificu.edu/as/enviro/) in the College of Arts and Sciences provides students with an education that takes full advantage of Pacific University's liberal arts curriculum. In this program, students and faculty have opportunities to pursue interests that span a wide range of disciplines. In addition to the two full-time faculty members in the department, Environmental Studies offers the expertise of faculty affiliated with the program who are based in the disciplines of biology, chemistry, political science, economics, history, art, sociology, anthropology, philosophy and literature. This results in a wide range of opportunities to investigate environmental problems that cross traditional boundaries.

Students in Environmental Studies can choose to apply their knowledge through research opportunities in unique nearby surroundings such as the coniferous forest of the John Blodgett Arboretum, the riparian corridors of the Gales Creek and Tualatin River watersheds, and the 750-acre Fernhill Wetlands. The B Street Permaculture Project (a 15-minute walk from campus) is a learning laboratory for sustainability that directly addresses the human component of environmental problem solving. Regionally, there are many exemplary resources available within a one- to two-hour drive of campus such as the Willamette and Columbia Rivers, Tillamook and Willapa Bays, and the forests of the Coast and Cascade Ranges. The proximity of Pacific University to study sites both wild and human-influenced is one of the main strengths of the Environmental Studies program.

The Environmental Studies curriculum includes majors that lead to a Bachelor of Science (BS) or a Bachelor of Arts (BA) degree. Students pursuing a BS in Environmental Science can choose either a Biology or an Environmental Toxicology & Chemistry emphasis. Students pursuing a BA in Environmental Studies can choose to major in either Policy, Culture & Society (PCS) or in Applied Sustainability. Students in all tracks will gain knowledge about how ecological and physical earth systems work, how these systems are being affected by human activities, and how we can alter these patterns to produce more desirable outcomes. Students will learn to appreciate the services provided by natural systems and will understand how our social, economic, political, and legal systems are rapidly increasing stratification locally, regionally and globally. Students will develop the ability to think systematically and will "solve for pattern" by understanding the cause and effect of environmental and social relationships, and how initiatives to solve problems in one area will affect conditions in the other.

The Department of Environmental Studies is an interdisciplinary community of active scholars in the arts, humanities and natural and social sciences. We are dedicated to helping students and community members form a broad holistic understanding of the relationships between human and natural systems and give them the skills they need to identify and address the problems that exist within those relationships. This understanding is built on a foundation of valid, contextual knowledge informed by disciplinary study and experiential learning practices. Through faculty guidance and peer interaction, students gain an appreciation for the complexity of relationships between human, social and economic systems and natural ecosystems. Students in our program will learn to creatively apply both quantitative and qualitative methods to the complex environmental and social problems we currently face. Our innovative program produces broadly educated, highly skilled graduates who will become active and responsible citizens in the world community.

By successfully completing a major within Environmental Studies, students will be able to:

- Demonstrate conceptual understanding of fundamental environmental principles.
- Communicate effectively in the discipline in oral and in written form.
- Think critically and synthesize information from a variety of different sources.
- Consider social, political, economic and cultural views when dealing with environmental problem solving.
- Conduct independent research or work successfully in a technical position.

Bachelor of Science in Environmental Science: Biology or Toxicology & Chemistry Emphasis

The Environmental Biology emphasis focuses on field and laboratory approaches to environmental problems such as the conservation of rare or declining species or the restoration of degraded habitats. Environmental Biology stands apart from a traditional biology degree in the way that it integrates interdisciplinary core courses with a mission-oriented, problem-solving methodology. Students completing this major have the analytical skills and technical background necessary to compete in the job market for environmental biology positions or to continue with advanced studies in a graduate program.

The Environmental Toxicology & Chemistry emphasis offers students an integrated interdisciplinary science curriculum and a disciplinary approach towards understanding the complex interactions of xenobiotics (drugs, toxins, and natural compounds) in the biosphere, including humans. This challenging curriculum is designed for students interested in careers in pharmacy, toxicology, and environmental chemistry (disciplines that overlap with each other) and to make students highly competitive for graduate programs in these areas. Faculty in the School of Natural Sciences and the School of Pharmacy teach discipline-specific courses in the curriculum.

Students in this program are required to successfully design and complete independent scientific research projects, where they work with faculty in Pacific University's School of Natural Sciences and School of Pharmacy. In addition students are required to take discipline-specific courses that cover important concepts in pharmacology, toxicology and environmental chemistry (i.e. drug metabolism, dose response curves, chemical behavior in environmental compartments, target organ toxicity).

Program Learning Outcomes

A student completing a major in Environmental Biology shall demonstrate the ability to:

- Apply the scientific method and quantitative techniques to describe, monitor and understand environmental systems.
- Use interdisciplinary approaches such as ecology, economics, ethics and policy to devise solutions to environmental problems.
- Be proficient in ecological field methods such as wildlife survey, biodiversity assessment, mathematical modeling and monitoring of ecological systems.
- Use technology, such as geographical information systems and computer programming, to assist in problem solving.
- Effectively understand and convey scientific material from peer-reviewed sources.

A student completing a major in Environmental Chemistry and Toxicology shall demonstrate the ability to:

- Acquire broad knowledge of the field of environmental toxicology and chemistry including basic principles, target organ toxicity and the toxicity of a select group of chemical compounds.
- Synthesize and apply concepts from multiple sub-disciplines in environmental chemistry and toxicology.
- Use technical and analytical skills to quantify the level and effects of xenobiotics in environmental compartments (air, water, soil, biota).
- Understand relationships between chemical/drug exposure and effects on physiological systems and design strategies for study of dose-response relationships.
- Effectively understand and convey scientific material from peer-reviewed sources.
- Have developed good scientific communication, including writing, oral communication and presentation skills.
- Conduct an individual research project within the university or other appropriate setting.

Environmental Science with Biology Emphasis: Requirements for the Major

ENV 100	Environmental Studies Seminar	1 credit
ENV 200	Introduction to Environmental Science	4 credits
ENV 230	Restoration Ecology	4 credits
ENV 270	Geospatial Analysis Using GIS	4 credits
ENV 325	Conservation Biology	4 credits
ENV 330	Ecosystems and Ecological Design	4 credits
ENV 380	Environmental Problem Solving	2 credits
ENV 490	Environmental Science Capstone	2 credits
ENV 495	Independent Research	2 credits
BIOL 200/200L	Intro Biology: Flow of Energy and Lab	4 credits
BIOL 201/201L	Intro Biology: Flow of Biol Information and Lab	4 credits
BIOL 305	Ecology	4 credits
CHEM 220	General Chemistry I	4 credits
CHEM 230	General Chemistry II	4 credits
CHEM 300	Fundamentals of Organic Chemistry	4 credits
One of the following:		
POLS 224/ENV 224	Environmental Politics	4 credits
ECON 333/ENV 333	Environmental Economics	4 credits
PHIL 321	Environmental Ethics	4 credits
HIST 441	Environmental History	4 credits
PSY 313	Ecopsychology	4 credits
One of the following:		
ENV 344	Environmental Toxicology	2 credits
AND		
ENV 361	Environmental Toxicology Methods	1 credit
ENV 320	Adv. Tropical Environmental Biology	4 credits
BIOL 308	Microbiology	4 credits
BIOL 316	Plant Biology	4 credits
BIOL 330	Genetics	4 credits
BIOL 345	Marine Biology	4 credits
BIOL 420	Vertebrate Zoology	4 credits

TOTAL: 58-59 credits

Restrictions: In order to receive an Environmental Science degree with an emphasis in Biology from Pacific University, a student must complete ENV 490 Capstone Experience, and at least 3 upper-division courses. Students cannot receive a degree in both Environmental Science (biology emphasis) and Biology.

It is strongly recommended that students include the following courses as part of their curriculum in order to have a solid environmental biology foundation:

- Genetics
- Evolution
- Plant Biology
- Vertebrate Zoology
- Microbiology, Cell Biology, or Molecular Biology

Additionally Recommended:

- Introductory Physics or General Physics
- An introductory statistics course
- Calculus I and II

Environmental Science with Toxicology & Chemistry Emphasis: Requirements for the Major

ENV 200	Intro to Environmental Science	4 credits
MATH 226	Calculus I	4 credits
CHEM 220	General Chemistry I	4 credits
CHEM 230	General Chemistry II	4 credits
CHEM 300	Fundamentals of Organic Chemistry	4 credits
CHEM 400	Advanced Organic Chemistry	4 credits
BIOL 200/200L	Intro Biology: Flow of Energy and Lab	4 credits
BIOL 201/201L	Intro Biology: Flow of Biol Information and Lab	4 credits
PHY 202 & 204	Introductory Physics I & II	8 credits
OR		
PHY 232 & 242	General Physics I & II	8 credits
POLS 224/ENV 224	Environmental Politics	4 credits
OR		
ECON 333/ENV 333	Environmental Economics	4 credits
ENV 344	Environmental Toxicology	2 credits
CHEM 460	Environmental Chemistry	2 credits
ENV 361	Methods in Environmental Toxicology & Chemistry	1 credit
ENV 462	Special Topics in Environmental Toxicology & Chemistry	1 credit
ENV 495	Independent Research in Environmental Toxicology & Chemistry	2 credits
ENV 380	Environmental Problem Solving	2 credits
ENV 490	Environmental Science Capstone	2 credits

Complete either Group I (Toxicology/Pharmacy) or Group II (Environmental Chemistry)

Group I (Toxicology/Pharmacy) - Take two of the following courses:

CHEM 380	Fundamentals of Biochemistry	4 credits
BIOL 308	Microbiology	4 credits
BIOL 330	Genetics	4 credits

BIOL 400	Molecular Biology	4 credits
BIOL 470	Animal Physiology	4 credits
Group II (Environmental Chemistry) - Take these courses:		
CHEM 340/341	Quantitative Analysis and Lab	4 credits
CHEM 444	Instrumental Methods and Analysis	4 credits

TOTAL: 65 credits

Bachelor of Arts in Environmental Studies: Applied Sustainability or Policy, Culture & Society

Environmental Studies: Applied Sustainability

Applied Sustainability is a broadly applicable problem-solving process that seeks to create whole systems solutions to environmental and social problems. Its hallmark is an inclusive, interdisciplinary, and collaborative approach that brings multiple perspectives together to make shared decisions. Building on a foundation of ecoliteracy and systems thinking, students in the Applied Sustainability major will learn to apply design principles derived from a scientific understanding of how ecosystems operate to real-world problems through experiential engagement and practice. Focus is on developing an ethic of service and leadership, creative and collaborative attitudes and behaviors, excellent verbal and visual communications skills, effective problem-solving skills, and an expressive individual design voice.

Careers for majors in Applied Sustainability cover a wide range of occupations, including urban planning, product design, landscape architecture, agriculture, building design, and renewable energy.

Program Learning Outcomes

A student completing a major in Applied Sustainability shall demonstrate the ability to:

- Combine an understanding of ecology and permaculture with study of the social sciences and the humanities.
- Convey literacy in the ecological, social and economic concepts on which the concept of sustainability is based.
- Explain systems thinking and apply a systems approach to relationships between social, economic, and ecological systems.
- Be skilled in leadership, collaboration, problem-solving and self-expression.
- Present their designs and results of analysis in a professional manner.

Environmental Studies: Applied Sustainability - Requirements for the Major

Complete all of the following:

ENV 100	Environmental Studies Seminar	1 credit
ARTST 107	Systems Thinking for Problem Solvers	2 credits
ENV 141	Permaculture Design Science	4 credits
ENV/PHY160	Energy & the Environment	4 credits
ENV 200	Sustainability Science	4 credits
ENV 201	Agroecology Methods	2 credits
ENV 204	Sustainable use of soil & water	4 credits
ENV 233	Personal Leadership for Sustainability	2 credits
ENV 270	Geospatial Analysis Using GIS	4 credits
ENV 330	Ecosystems & Ecological Design	4 credits
ENV 380	Environmental Problem Solving	2 credits
ENV 475	Internship	4 credits
ENV 490	Capstone Experience	2 credits

Complete two of the following categories:

Fostering Sustainable Behavior

PSY 150	Introduction to Psychology	4 credits
ENV/PSY 313	Ecopsychology	4 credits

Sustainability and Economics

ECON 102	Economics of Markets & Governments	4 credits
ENV/ECON 333	Environmental economics	4 credits

History, Ethics, Politics and Sustainability

Take two of the following:

ENV/POLS 224	Environmental Politics	4 credits
ENV/HIST 441	Environmental History	4 credits
ENV/PHIL 321	Environmental Ethics	4 credits
ENV/PHIL 322	Animal Ethics	4 credits

Social Sustainability

Take two of the following:

SOC 130	Stump the Sociologist	4 credits
SOC 342	Consumer Society	4 credits
SOC 347	Global Capitalism & Neo-Colonial Inequalities	4 credits

Outdoor Leadership

HPER 157	Outdoor Recreation	0-1 credit
OL 207	Introduction to Outdoor Leadership	2 credits
OL 307	Applied Outdoor Leadership	4 credits

Leadership and Education for Sustainability

ENV 234	Organizational Leadership for Sustainability	2 credits
ENV 335	Education for Sustainability	4 credits

Sustainable Agriculture

ENV 311	Technology of Sustainable Agriculture	2 credits
ENV 312	Sustainable Agriculture in the Global Economy	2 credits

Total for major

49 – 54 credits

Environmental Studies: Policy, Culture, and Society (PCS)

Environmental Studies in Policy, Culture and Society offers students an interdisciplinary curriculum and a disciplinary approach towards understanding complexities of the human relationship to the environment. These are not merely scientific matters; they are also political, social and cultural problems, grounded in the ways in which human beings perceive nature and their own relationship to it. This major provides students with the background and understandings appropriate for civic engagement in numerous directions, including law and public service. The major prepares students to address environmental issues by requiring an interdisciplinary core of courses in the humanities, social sciences and natural sciences, with advanced study in a disciplinary concentration in economics, history, philosophy or politics and government.

Students in this major will write a thesis in their area of concentration. Theses will have two readers: one will be the mentor in the field of concentration, the other to be determined by the student, faculty advisor, and the chair of the major. Students who wish to pursue this major should see the chair of the program for initial advising. Interested students should initially inquire with the chair of the major, Professor Larry Lipin (History Department). Once a concentration is declared, student advising will move to a faculty member in the area of concentration.

Program Learning Outcomes

A student completing a major in Policy, Culture and Society will:

- Develop a basic scientific understanding of environmental issues through the program's core electives.
- Understand environmental issues from multiple disciplinary vantage points.
- Master methodology and knowledge through intensive upper-division course work in one social science or humanities discipline.
- Be able to apply disciplinary knowledge and methods towards a critical environmental issue.
- Learn to reason and write clearly.

Environmental Studies PCS: Core Requirements for the Major

Natural Science

ENV 200	Intro to Environmental Science	4 credits
Choose one:		
ENV 141	Permaculture: Design Science	4 credits
ENV 160	Energy and the Environment	4 credits
ENV 210	Tropical Environmental Biology	4 credits
ENV 260	Oregon Natural History	4 credits

Social Science

Choose two:		
ENV 224	Environmental Politics	4 credits
ENV 333	Environmental Economics	4 credits
ENV 441	Environmental History	4 credits

Humanities

Choose Two		
ENV 321	Environmental Ethics	4 credits
ENV 222	Environmental Literature	4 credits
ENV 322	Animal Ethics	4 credits

Electives

Choose one:		
PH 320	Environmental Health	4 credits
PSY 313	Ecopsychology	4 credits
SOC 342	Consumer Society	4 credits

Concentration

In addition to the core, students must complete one of the concentrations below:

Economics

ECON 101	Economics of Social Issues	4 credits
ECON 102	Economics of Markets and Governments	4 credits
ECON 321	Econometrics (has Math 207 as a prereq)	4 credits
ECON 327	Economics of Consumers, Producers, and Government	4 credits
ECON/ENV 333	Environmental Economics (credits counted in core)	4 credits
ECON 485	Research Methods in Economics	4 credits
ECON 495	Senior Thesis	2 credits

Subtotal – Economics Concentration	22
Environmental Studies Core	28

TOTAL (with Math prereqs) 54 credits

Ethics

PHIL 202	Ethics and Society	4 credits
PHIL/ENV 321	Environmental Ethics (credits counted in core)	4 credits
PHIL/ENV 322	Animal Ethics	4 credits
PHIL 494/495	Senior Seminar	4 credits
One of the following: PHIL 101, 205, 206, 207, 208		4 credits
Upper-division elective in Philosophy		4 credits

Subtotal – Ethics Concentration	16 credits
Environmental Studies Core	28 credits

TOTAL 46 credits

History		
One 100 or 200 level course in History		4 credits
Two 300 or 400 level courses in History		8 credits
HIST/ENV 441	Environmental History (credits counted in core)	4 credits
HIST 391	Research Methods in History	4 credits
HIST 491-2	Senior Thesis	2 credits
Subtotal – History Concentration		18 credits
Environmental Studies Core		28 credits
TOTAL		46 credits

Politics and Government		
Required Courses (Take All Four)		
POLS 140	Introduction to U.S. Politics	4 credits
POLS/ENV 224	Environmental Politics (credits counted in core)	4 credits
POLS 399	Theory and Method in Pols	4 credits
POLS 498/499	Seminar and Thesis	4 credits
Electives (Choose Three—12 credits)		
POLS 301	Politics and the Media	4 credits
POLS 302	Parties and Elections	4 credits
POLS 304	Grassroots Politics	4 credits
POLS 306	Presidency and Congress	4 credits
POLS 310	Markets, Politics, and Governments	4 credits
POLS 321	Protest, Dissent, and Social Change	4 credits
POLS 322	Suppression of Dissent	4 credits
POLS 325	Constitutional Law	4 credits
POLS 340	Security, Rights, and Globalization	4 credits
POLS 475	Internship	
Subtotal – Politics and Government Concentration		24 credits
Environmental Studies Core		28 credits
TOTAL		52 credits

Minors: Three minors are offered by Environmental Studies: **Applied Sustainability, Environmental Policy, and Environmental Science.** Environmental Studies majors may choose to pursue a minor in **Outdoor Leadership** (see below).

Applied Sustainability

Minors in Applied Sustainability are introduced to a broadly applicable problem-solving process that seeks to create whole systems solutions to environmental and social problems. Its hallmark is an inclusive, interdisciplinary, and collaborative approach that brings multiple perspectives together to make shared decisions. Building on a foundation of ecoliteracy and the practice of ecological design, students in the Applied Sustainability minor will be introduced to sustainability principles derived from a scientific understanding of how ecosystems operate through experiential engagement and practice. Focus is on developing an ethic of service and leadership, creative and collaborative attitudes and behaviors, excellent verbal and visual communications skills, and effective problem-solving skills.

Applied Sustainability: Requirements for the Minor

ENV 100	Environmental Studies Seminar	1 credit
ENV 121	Our Global Environment	4 credits
ENV 141	Permaculture Design Science	4 credits
ENV 204	Sustainable use of soil & water (lab)	4 credits
ENV 330	Ecosystems & Ecological Design	4 credits

Take one of the following:

ENV 201	Agroecology Methods	2 credits
ENV 233	Personal Leadership for Sustainability	2 credits

Complete one of the following categories:

Fostering Sustainable Behavior

PSY 150	Introduction to Psychology	4 credits
PSY 313	Ecopsychology	4 credits

Sustainability and Economics

ECON 102	Economics of Markets & Governments	4 credits
ECON 333	Environmental Economics	4 credits

History, Ethics, Politics and Sustainability

Take two of the following:

POLS 224	Environmental Politics	4 credits
HIST 441	Environmental History	4 credits
PHIL 321	Environmental Ethics	4 credits
PHIL 322	Animal Ethics	4 credits

Health, Culture & Sustainability

Take two of the following:

ANTH 207	Good Food: Eating & Community	4 credits
ANTH 311	Medicine, Body & culture	4 credits
ANTH 343	Food, Fat & Fitness	4 credits

Social Sustainability

Take two of the following:		
SOC 130	Stump the Sociologist	4 credits
SOC 342	Consumer Society	4 credits
SOC 347	Global Capitalism & Neo-Colonial Inequalities	4 credits

Design for Sustainability

ARTST 121	Studio I: The Creative Process	4 credits
ARTST 372	Interdisciplinary Design Seminar NM (junior standing)	2 credits
ARTST 475	Internship	2 credits

Outdoor Leadership

HPER 157	Outdoor Recreation	0-1 credit
OL 207	Introduction to Outdoor Leadership	2 credits
OL 307	Applied Outdoor Leadership	4 credits

Leadership and Education for Sustainability

ENV 234	Organizational Leadership for Sustainability (Moved from core)	2 credits
ENV 335	Education for Sustainability	4 credits

Sustainable Agriculture

ENV 311	Technology of Sustainable Agriculture	2 credits
ENV 312	Sustainable Agriculture in the Global Economy	2 credits

Total for minor: 23 – 27 credits

Environmental Policy

The rapid development of industrial economies has often occurred at the expense of the natural environment. Citizens of rich countries increasingly demand healthy environmental conditions. Governmental authorities, private businesses and non-profits face the challenge of mitigating past damage and creating new modes of production that entail smaller environmental costs. The environmental policy minor seeks to educate students to effectively participate in decisions that affect scarce environmental resources.

The consideration of environmental issues requires knowledge drawn from a variety of disciplines spanning the natural and social sciences and the humanities as well. Students with minors in environmental policy will possess basic knowledge of environmental science, economics, politics, history and ethics. In addition to the understanding of environmental issues, students will gain expertise in the practical skills employed by environmental policymakers. Such skills include proficiency in spreadsheet analysis, GIS mapping and lab sciences.

Environmental Policy: Requirements for the Minor

ENV 100	Environmental Studies Seminar	1 credits
ENV 200	Introduction to Environmental Science	4 credits
BIOL 200/200L	Intro Biology: Flow of Energy and Lab	4 credits
OR		
BIOL 201/201L	Intro Biology: Flow of Biol Information and Lab	4 credits
ECON 102	Economics of Markets & Governments	4 credits
ENV 333	Environmental Economics	4 credits
ENV 224	Environmental Politics	4 credits
POLS 325	Constitutional Law	4 credits
One of the following:		
PSY 313	Ecological Psychology	4 credits
ENV 441	Environmental History	4 credits

TOTAL: 29 Credits

Environmental Science

The minor in environmental science is designed to expose students to the interdisciplinary nature of environmental issues, with emphasis on the current scientific methods used to study these issues. This minor is intended to provide students with a firm foundation in the language, concepts and methods of Environmental Science as well as perspectives on current issues concerning the environment. While this minor emphasizes the fundamentals of natural and applied environmental science, this minor also incorporates 3-7 credits outside of these areas to help students gain a better appreciation for the interdependent nature of human behavior and environmental health.

Any student who is interested in the relationship between humans and their environment is encouraged to participate. Students from a wide-range of primary disciplines, from the sciences to the social science, humanities, business and arts may benefit from this minor area of specialization.

Environmental Science: Requirements for the Minor

ENV 100	Environmental Science Seminar	1 credits
ENV 200	Introduction to Environmental Science	4 credits

Electives:

Choose one course from the electives in environmental policy and two courses from the electives in environmental science. Note: at least 8 of these credits must be at the 300-level or above.

Environmental Policy

ENV 224	Environmental Politics	4 credits
ENV 333	Environmental Economics	4 credits

Environmental Science

ENV 210	Tropical Environmental Biology	4 credits
ENV 301	Environmental Toxicology	4 credits
ENV 325	Conservation Biology	4 credits
PHY 322	Modern Physics with Health Applications	4 credits

TOTAL: 17 credits

COURSES

ENV-100 Environmental Studies Seminar

The study of the environment encompasses a broad field that links theory from many disciplines to applications in human society. This course provides a survey of both the major issues in environmental science and the environmental professions that address these issues. Faculty and outside speakers from government and private industry will make presentations and lead discussions. The structure of environmental regulation and management in the U.S. will be described. 1 credit.

ENV-121 Our Global Environment

This course will cover scientific views of the major environmental issues facing the planet as well as solutions to these problems according to current scientific research. Students will read from a variety of sources (science, policy, economics, and ethics), so students can understand the complexity of environmental problems. This course will include environmental awareness/activism projects. Counts toward core requirement: Natural Sciences. 4 credits.

ENV-131 Intro to Environmental Issues in Hawaii

This pre-trip course for Environmental Issues in Hawaii (ENV 132) will use readings, lecture, and discussion to introduce students to Hawaiian culture and the plant and animal communities of the Hawaiian island arc. Participants will learn about common species in local habitats ranging from the coast to the forested volcanoes. We will use ecology, life history, and behavior to build frameworks that define tropical terrestrial and marine communities. We will explore Hawaiian history and investigate the cultural connections that bind Hawaiian people such as the kua'ina to the natural world. By identifying connections between culture, geology, climate and the biotic realm, students will gain a better understanding of the interplay between people and this unique landscape. Counts toward core requirement: Diverse Perspectives. 2 credits.

ENV-132 Environmental Issues in Hawaii

Among the most remote islands on the planet, the Hawaiian Islands provide a remarkable location for studying biological and human dimensions of the environment. Students will have a unique opportunity to learn about issues and solutions relating to cultural modification of landscapes, land use and conservation policies, development, resource production and other key environmental global topics by studying the Hawaiian landscape. This field course, taught on the Big Island and Oahu, will aim to connect academic discussion of the meaning of sustainability to real-life environmental challenges facing island ecosystems. Prerequisite: ENV 131. Counts toward core requirement: Diverse Perspectives. 2 credits.

ENV-141 Permaculture Design Science

Permaculture is about designing ecological human habitats and food production systems. It is a land use and community building movement, which strives for the harmonious integration of human dwellings, microclimate, annual and perennial plants, animals, soils, and water into stable, productive communities. The focus is not on these elements themselves, but rather on the relationships created among them by the way we place them in the landscape. This synergy is further enhanced by mimicking patterns found in nature. This course is designed to help students understand the basic principles of permaculture through classroom lectures and hands-on experience. Counts toward core requirement: Natural Sciences. 4 credits.

ENV-155 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

ENV-160 Energy & the Environment

In order to live, humans require energy, and methods of energy production significantly affect the environment in which humans live. This course examines fundamental thermodynamic concepts such as energy and power and then explores the comparative environmental costs and benefits, including potential long term consequences, of producing energy from various sources such as fossil fuels, nuclear reactors, wood burning, solar panels, wind turbines, etc. Methods of estimation and risk assessment are emphasized so that meaningful comparisons between energy sources and their environmental consequences can be made. Also listed as PHY 160. Counts toward core requirement: Natural Sciences. 4 credits.

ENV-170 Intro to Geographical Informational Sys

This course is designed for both newcomers to the field of GIS who want to understand the concepts and technology and for students with some knowledge of GIS who want to go beyond the software manuals to understand the fundamental concepts of GIS. Through lecture we will explore the basic concepts of mapping and spatial databases and their use in fields ranging from land-use planning to ecological research. Students will also gain a working knowledge of GIS software through the use of ArcView GIS, the most widely used GIS software package. Counts toward core requirement: Natural Sciences. 2 credits.

ENV-195 Independent Study

See department for details. Independent study contract required.

ENV-200 Sustainability Science

Sustainability Science probes interactions between global, social, and human systems, the complex mechanisms that lead to degradation of these systems, and concomitant risks to human well-being. Understanding the near-term and long-term effects of these actions on the quality of the environment requires a broad view of the science on how the earth functions without human intervention, and how society has changed these functions to support itself. Includes laboratory and field experiences. Prerequisite: ENV 100 (or concurrent enrollment). Counts toward core requirement: Natural Sciences. 4 credits.

ENV-201 Agroecology Methods

Food is one of the platforms of life that all humans need in order to survive. Yet, currently, many systems of agriculture production are harming humans, animals, insects, and the plants they cultivate. In this class, we will examine sustainable agriculture production systems from around the world, and compare and contrast how they handle the challenges of the modern age. Students will develop basic respect for the forces of nature and how they interact in ways that can lead to environmental problems when not understood. Practical applications of horticulture, soil science, systems thinking, economics, and environmental management will be a part of the coursework and associated fieldwork. Offered alternate years. 2 credits

ENV-204 Sustainable Use: Soil & Water

Soil and water are interconnected systems, but the current global use of them is not sustainable. Students in this course will learn about the properties of these systems in undisturbed natural ecosystems, current problems facing the quality and quantity of these systems, and methods used to assess the health of these systems. Students will also learn techniques for sustainable practices for these systems. Includes laboratory and field experiences. Counts toward core requirement: Natural Sciences. Offered alternate years. 4 credits.

ENV-205 Environmental Science Methods

Environmental Science Methods is a field-oriented course that introduces students to a range of laboratory and field methods and techniques used by professional scientists. This course provides training in techniques that could be used in senior projects. Students are introduced to methods for studying, monitoring, and experimenting upon plants and animals in a variety of habitats. Emphasis is placed on the choice of techniques for data collection, followed by rigorous analysis of results. Training is provided in the application of appropriate statistical techniques to experimental results. Prerequisite: ENV 200 and MATH 122. Counts toward core requirement: Natural Sciences (2010 catalog). 4 credits.

ENV-210 Tropical Environmental Biology

A study of the effects of human activity on natural environments associated with Third World, developing countries (i.e. Belize and Guatemala, Central America). A variety of ecosystems and areas will be studied, including lowland savannas, tropical seasonal forests, limestone caves, coastal lagoons, mangrove swamps, sea-grass flats, coral reefs and urban and rural societies. The course meets during the spring, in order to present lectures and background materials, which will prepare students for activities in Belize and Guatemala in May. Additional fee required. Prerequisite: Sophomore standing or above (30 or more completed credits). Instructor's consent required. Counts toward core requirements: Natural Sciences and International Perspectives. 4 credits.

ENV-222 Environmental Literature

Environmental Literature aims to critically examine our relationship to nature through the study of major American nature writers. We will consider each writer's ability to generate environmental thought (historically, politically, philosophically) and to survey how nature writing as a genre has taken its current form. The course hopes to acknowledge and challenge current assumptions on nature such as how wilderness has shaped the American imagination and even how labeling nature as "Mother Earth" implies a great deal of how we perceive and receive nature now. 4 credits.

ENV-224 Environmental Politics

This course introduces students to environmental disputes and the forces that affect environmental policy. Topics include the history and evolution of environmentalism and environmental policy, and an extensive case study of a local environmental issue. Also listed as POLS 224. 4 credits.

ENV-228 Sustainable Systems

This course will explore the diversity of sustainable systems used to reduce human impacts on the planet and start to develop a focus in one or more areas of interest in this diverse discipline. Students will delve into a variety of literary sources on sustainable systems and gather background information on areas of interest related to sustainability. In addition, students will do site visits, employee interviews, and initiate hands-on experiences in one or more areas of sustainability. Prerequisite: ENV 100. 2 credits.

ENV-233 Interpersonal Sustainability Leadership

Personal leadership development is a life-long experience. This course will help students develop an understanding of themselves and others to become effective leaders, followers, and team members in a variety of personal and social contexts. Personality and leadership learning assessments will be used to help build a personal toolkit for current and future involvement in projects, causes and learning. This course includes taking a personality assessment inventory, self-development activities, and leadership observations. 2 credits.

ENV-234 Organizational Sustainability Leadership

Will apply principles of personal leadership to organizations and communities. Students will: develop skills for successful teams at work and in volunteer settings; build a toolkit for meeting management, group decision-making, and planning; and practice leadership principles using real-time situations and case studies. This course includes a team project, self-reflection activities, and organizational observations. 2 credits

ENV-255 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

ENV-260 Oregon Natural History

Oregon Natural History will introduce students to the plant and animal communities of the Pacific Northwest. Participants will learn to identify common species in local habitats ranging from the coast to the Cascades. We will use ecology, life history, and behavior to investigate the interactions that define communities. By exploring connections between geology, climate, and the biotic realm, students will gain a better understanding of and appreciation for the biodiversity of this region. Counts toward core requirement: Natural Sciences. 4 credits.

ENV-265 Biodiversity & Ecosystem Resilience

Accelerating rates of environmental change and the continued loss of global biodiversity threaten the health of the world's ecosystems and jeopardize ecosystem services that benefit humankind. This course will explore the meaning of biodiversity and ask how it is perceived, valued, measured, and protected. Can biodiversity be conserved while also meeting human needs now and into the future? Through the assessment of ecosystem resilience (the maintenance of ecosystem functions and services under stress), the risk of system failure can be determined. The maintenance of biodiversity is necessary for the long-term resilience of living systems in a world undergoing dramatic change. 4 credits

ENV-270 Geospatial Analysis using GIS

The course will provide students with a basic knowledge of geographical information systems including sources of GIS data, various data models, capturing GIS data and manipulating GIS data. Concepts in geography, spatial data, analysis of spatial information, real-world applications, and map creation will be included. During this course students will gain a working knowledge of GIS software through the use of ArcGIS, the most widely used GIS software package. 4 credits.

ENV-275 Internship

See department for details. Internship contract required.

ENV-295 Independent Study

See department for details. Independent study contract required.

ENV-311 Technology of Sustainable Agriculture

Farming is one of the oldest professions on earth, and yet as we move into the 21st century, there are many ways in which technology can be and is currently applied in both traditional and modern agriculture systems to make them more sustainable. We will examine a myriad of technologies (both sophisticated and simple) used in agriculture, how they work, and why they are important to productive systems. Significant course time will be devoted to lecture and fieldwork on modern soil testing technology (such as ISE, XRF, NIR), plant testing technology (chlorophyll, tissue, sap, genetics), UAV's, informatics resources, nutrient delivery systems, precision sensors, agricultural robotics, and more. We will also examine the impact of low-tech solutions often used in developing nations such as shade cloth, greenhouses, biofuels, nutrient extractions, and other low-impact technology. Prerequisite: ENV 201. Offered alternate years. Credits 2.0

ENV-312 Sustainable Ag in the Global Economy

There is mounting concern in the scientific and technological communities about how to feed the growing world population in the near future. We will focus on modern agriculture in the context of a global economy interconnected by natural resources. The basics of operations management, marketing, food safety, small business accounting, and business analysis as applied to agricultural systems will receive significant course time through lecture, discussion and fieldwork. Students will also learn strategies for assessing the sustainability and financial viability of a number of advanced growing methods as well as the basics of implementing these techniques. Prerequisite: ENV 201. Offered alternate years. 2 credits.

ENV-313 Ecopsychology

This course is an overview of psychological research in environmental attitudes, conservation, sustainability, effects of the environment on human behavior and well-being, and how to design and implement programs to promote ecologically aware behaviors. Course will include seminar discussion, travel for field trips, and community-based programming. Also listed as PSY 313. Prerequisite PSY 150 with a minimum grade of C. 4 credits.

ENV-320 Advanced Tropical Environmental Biology

An in depth study in the effects of human activity on tropical ecosystems associated with developing countries, and current environmental science research in tropical ecosystems. A variety of tropical ecosystems will be studied with an emphasis on tropical seasonal forests and marine ecosystems. The course meets

once a week during the spring semester, in order to present lectures and background materials, which will prepare students for activities in Belize and Guatemala in May. Students will be assigned outside readings from peer-reviewed scientific research articles and text books dealing with environmental impacts on tropical ecosystems. Students will be required to demonstrate their knowledge of this material in addition to the material that is required for students taking ENV 210 (Tropical Environmental Biology for Nonscience majors). Students will participate in hands-on field research, design research proposals, and learn environmental problem solving through a case study approach. This will be in addition to the daily requirements for students in ENV 210. Additional fee required. Prerequisites: ENV 200 and BIOL 200 or BIOL 201 each with a minimum grade of C-. Counts toward core requirement: International Perspectives. 4 credits.

ENV-321 Environmental Ethics

A study of the key concepts in environmental ethics, such as biodiversity loss, corporate responsibility, animal rights, over-population, and environmental racism. Also listed as PHIL 321. Prerequisite: Sophomore standing or above (30 or more completed credits). 4 credits.

ENV-322 Animal Ethics

An investigation of the relationship between human and non-human animals. What is the moral standing of non-human animals? We will study both the theoretical and practical facets of this question by focusing on the ethical dilemmas and practices involving animals, including animal experimentation, factory farming, and companion animals. Also listed as PHIL 322. Prerequisite: Sophomore standing or above(30 or more completed credits). Offered alternate years. 4 credits.

ENV-324 Special Topics in Sustainable Design

Courses of varying formats on specific topics not included in the regular curriculum such as natural building, sustainable agriculture, plant propagation, kinship gardening, animal forage systems, tool building, social entrepreneurship and renewable energy. The topic of this course changes from year to year and is selected by the instructor and approved by the Environmental Studies Department. Prerequisite: ENV 142 and ENV 200. May be repeated for credit when topic varies. 2-4 credits.

ENV-325 Conservation Biology

Examines the historical and ethical background of the conservation movement and trace the development of the science of conservation biology. We will be making connections between society and the natural world, relating human impacts on plants and wildlife to the goals of the practicing conservation biologist. We will learn quantitative methods to determine and predict the status of plant and animal populations. This is a lab/field course with opportunities to learn from conservation efforts around the Portland metropolitan area. Also listed as BIOL 325. Prerequisite: BIOL 200 and BIOL 201 with a minimum grade of C-. 4 credits.

ENV-330 Ecosystems & Ecological Design

Ecosystems and Ecological Design will explore the application of ecological principles to the design of sustainable technologies, buildings, communities and landscapes. The strategies of conservation, sustainability and stewardship can be applied at all scales to produce revolutionary forms of buildings, landscapes and applied technologies. The course is focused on understanding how ecological knowledge informs the design process. Fundamental ecological concepts such as primary production, energy flow, nutrient cycles, community structure and ecosystem stability are used as the foundation for exploring process is introduced in the form of participatory methods for design. Laboratory exercises and group projects provide opportunities for experiential learning through the application of ecological design principles to the solution of real problems, with particular focus on the Pacific University campus and its surroundings. Ecological design will enable us to realize that environmental problems are largely problems of design. Prerequisite: ENV 142 and ENV 200. 4 credits.

ENV-333 Environmental Economics

Environmental economics studies the role of environmental amenities such as clean air and clean water in the economic system. This course analyzes the problems of market outcomes when such amenities are not priced. The problems associated with estimating economic costs and benefits are also carefully examined. Throughout the course, the connection between economic understanding and improved public policy is emphasized. The course will include a lab section which will be devoted in large measure to experiences in the field. Also listed as ECON 333. Prerequisite: ECON 102. 4 credits.

ENV-335 Education for Sustainability

Guided by the nine core content standards for Education for Sustainability; students will explore and experience formal, non-formal, and informal methods for engaging citizens in learning and participating in life-long stewardship. Includes a self-driven focus, a team project and field trips. Prerequisite: ENV 233, ENV 234, and EDUC 260. Offered alternate years. 4 credits.

ENV-340 Restoration Ecology

Restoration ecology seeks to enhance the natural recovery of damaged ecosystems. Through lectures, readings, and field/lab work, we will review the conceptual bases of restoration ecology, investigate the tools used by restoration ecologists to solve practical problems, and discuss the scope and success of actual restoration projects. Working with local partners, students will independently produce a restoration plan for a degraded region that includes an assessment of baseline conditions, development of an ecological model, restoration goals, project implementation, monitoring, and budgeting. Prerequisite: ENV 200 or BIOL 200. Previously offered as ENV 230. 4 credits.

ENV-342 Risk Management and Decision Making

Development, application, and integration of analysis tools and decision models to aid managerial decision making in the face of risk and uncertainty. Behavioral factors that influence judgment and decision making will also be considered. The course covers applications in environmental, technological, health/safety, and organizational risk management. Also listed as BA 342. Prerequisite: ECON-101 or ECON-102 with minimum grade C-; and BA-201 or BA-202 with minimum grade of C-. 4 credits.

ENV-344 Environmental Toxicology

Pollutants impact the structure and function of ecological systems at all levels of biological organization. This course will focus on the effects of toxicants on ecological structures, from the molecular to the individual organism to the community and the ecosystem. Prerequisite: CHEM 300. 2 credits.

ENV-351 Energy Economics

The economics of energy studies the role of energy and energy resources in industrial societies from an economic perspective. Basic economic principles and methods are used to examine problems in the production, distribution and use of energy in all its important forms including coal, oil, gas, nuclear, electricity, and various alternative fuels. Special policy issues such as the environmental problems of energy use, regulation, the depletion of energy resources, and other problems pertaining to the energy industries will be discussed. Also listed as ECON 351. Prerequisite: ECON 102. 4 credits.

ENV-355 Special Topics in Environmental Science

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

ENV-361 Lab Techniques Env Toxicology & Chem

Changes in the environment are ultimately the result of chemical processes. This laboratory course examines our understanding of chemical change in various environmental compartments from a practical perspective. Methodology for monitoring and modeling these systems will be utilized, including standard toxicity testing, use of biomarkers, tissue, air, water and soil analyses, and molecular techniques. Prerequisites: CHEM 300. 1 credit.

ENV-380 Environmental Problem Solving

This course is designed to help students understand the complexity of environmental problems. Students will put together a comprehensive project proposal for an independent research project that they will complete as part of their senior capstone. Students will also listen to guest lectures from experts in the field that are involved with environmental problem solving. Prerequisite: Junior standing or above (60 or more completed credits) and ENV-200. 2 credits.

ENV-385 Eco-Theatre: Community & Performance

This course combines theory, practice, and knowledge from the disciplines of Theatre and Environmental Studies within a project-based, community-outreach model. A live performance project will be devised with goals of building community; raising awareness of sustainability issues, crises, and solutions; and offering possibilities for a cultural shift. Also listed as THEA 385. Prerequisite: THEA 110, THEA 120, ENV 142, ENV 160, ENV 200, ENV 224, PHIL 321, or ECON 333. Counts toward core requirement: Civic Engagement. 4 credits.

ENV-395 Independent Study

See department for details. Independent study contract required.

ENV-435 Sustainability's Big Picture

This course will explore the challenges that we face in learning to live in a more sustainable fashion. This culminating course will bring together students who have completed the majority of the Sustainability Studies minor to discuss sustainability from a range of academic perspectives. During the course, students will share experiences and discuss relationships between the courses they took, their major area of study, and the meaning of sustainability. Students will also work in groups to initiate and complete an on-campus sustainability-related civic engagement project within the time period of the course. Students will collaboratively document and present their collective experiences and activities as related to the completion of the minor. Prerequisite: Take Sustainability Studies minor foundations courses and three of the four required electives. 2 credits.

ENV-441 Environmental History

This course focuses on historical scholarship that has addressed the changing relationship between human societies and "nature". The course explores the development of ecological science and environmental politics; it also explores the ways in which Americans of European and indigenous background imposed their understandings on the landscape, and the consequences of these impositions. Other subjects include National Park Service policy, game conservation and class conflict, and the development of governmental agencies dedicated to protecting or controlling the environment. Also listed as HIST 441. Prerequisite: Junior standing or above (60 or more completed credits). 4 credits.

ENV-462 Special Topics Env Toxicology & Chem

This course involves presentations of research findings in environmental toxicology and chemistry by invited scientists and Pacific University faculty and presentation and discussion of literature research by students. Prerequisite: CHEM 300. 1 credit.

ENV-475 Internship

See department for details. Internship contract required.

ENV-480 Project Management

Provides leadership and management guidelines for project management with a focus on sustainability and the environment. Strategies for effective planning, communication, motivation and execution throughout the duration of the project will be investigated. Project Management presents principles of project control from initiation through closure in a clear and practical manner. Prerequisite: ENV 380. 2 credits.

ENV-490 Capstone Experience

Designed to allow students to expand on research projects or internships by more thoroughly examining the primary literature, reanalyzing data, writing an annotated bibliography and presenting in a public forum. Prerequisite: Senior standing (90 or more completed credits) and approved project. Instructor's consent required. 2 credits.

ENV-495 Research

Faculty supervised, student-conducted, individual research project. Instructor's consent required. May be repeated for credit.

EXERCISE SCIENCE

Brian Jackson, Chair; Jenelle Andrews, Jennifer Bhalla, Rebecca Y. Concepcion, Kathryn Dolphin, Shawn Henry, Brian Searcy, Philip Schot

The mission of the Exercise Science program (<http://www.pacificu.edu/as/exercise/>) is to contribute to the generation, dissemination and application of knowledge related to human movement in multiple contexts. Students and faculty are actively engaged in each area. While a health-science context is emphasized, the curriculum enables students to understand movement by integrating multiple scientific perspectives so as to be successful in a variety of arenas (e.g., employment in the fitness/exercise field, graduate study in professional or academic disciplines).

Program Learning Outcomes

A student completing a major in Exercise Science shall demonstrate the ability to:

- Understand and apply fundamental principles from the various sub-disciplines in Exercise Science to a variety of contexts (e.g., health, fitness, rehabilitation, education);
- Use qualitative and quantitative reasoning and evidence, synthesizing information from a variety of origins to methodically and systematically solve problems and develop interventions in the human movement domain;
- Communicate effectively, orally and in writing, in accordance with disciplinary standards; and
- Design, conduct, interpret, and evaluate human movement science research

All students will complete one of two emphasis areas, both of which require 62 credit hours. The Integrative Physiology path incorporates additional coursework from the parent disciplines in the natural / physical sciences whereas the Motor Behavior track accentuates behavioral and applied considerations related to a variety of aspects of movement. Courses with the EXIP prefix satisfy natural science core requirements. Both routes, in combination with strategic selection of elective / core courses that satisfy prerequisites for specific graduate programs, can serve students with aspirations of pursuing graduate studies in health professions (PT, OT, PA, DC, MD, OD), education (MAT) or academics (MS, PhD). The common and distinctive coursework requirements for each emphasis are listed below. There is not necessarily a specified order for the courses. Only courses marked with asterisks may be repeated for credit, and then only with a change of topic and only in consultation with the advisor.

Exercise Science: Requirements for the Major

Core Courses

EXMB 200	Exercise Science Foundations	2 credits
EXMB 335	Psychosocial Issues in ExSci	4 credits
MATH 207	Statistics (or PSY 350 or SOC 301)	4 credits
EXIP 281	Nutrition	4 credits
EXIP 345	Biomechanics	4 credits
EXIP 365	Perceptual Motor Learning	4 credits
EXIP 385	Exercise Physiology	4 credits
EXIP 399	Junior Seminar	2 credits
EXIP 400	Advanced Analysis in Kinesiology	2 credits
EXIP 498 & 499	Senior Research I & II	2 credits
BIOL 200	Intro Bio: Flow of Energy	4 credits
HBIO 230	Human Anatomy and Physiology I	4 credits
HBIO 231	Human Anatomy and Physiology II	4 credits

Chose one emphasis:

Integrative Physiology

BIOL 201	Intro Biology: Flow of Biology Information	4 credits
CHEM 220	General Chemistry I	4 credits
CHEM 230	General Chemistry II	4 credits
PHY 202	Introductory Physics I (or PHY 232)	4 credits
Two upper-division credits, chosen in consultation with advisor, which may include, but are not limited to:		
HBIO 440	Advanced Human Anatomy	4 credits
EXIP 481	Applied Nutrition	4 credits
EXIP 495	Research	1-4 credits*
EXMB 475	Internship	1-2 credits*

Motor Behavior

EXIP/EXMP electives or other courses via petition and departmental approval	18 credits
---	------------

Capstone: In the senior year, students complete a 2-credit course emphasizing advanced research methods and analysis (EXIP 400) in one of the Exercise Science sub-disciplines that prepares them for the research proposal. Students must also complete two research credits (usually sequentially); EXIP 498 (Senior Research I) and EXIP 499 (Senior Research II). Each of these courses is one credit. The benchmark activities for Senior Research I focus on data collection as per the research proposal developed in the advanced class; in Senior Research II students summarize and disseminate the project findings publicly via poster, presentation, or manuscript.

Minors: Two minors are offered by the department, **Human Movement Studies (HMS)** and **Exercise Science (ES)**, both of which require 26 credits. Exercise Science majors are not eligible to earn a minor in HMS or ES; however, they are free to take courses as electives, subject to institutional limitations. Exercise Science majors are eligible to pursue a minor in **Outdoor Leadership** (see below).

Exercise Science: Requirements for the Minor

EXMB 200	Exercise Science Foundations	2 credits
BIOL 200	Intro Bio: Flow of Energy	4 credits
HBIO 230	Human Anatomy and Physiology I	4 credits
HBIO 231	Human Anatomy and Physiology II	4 credits

Three of the following:

EXIP 281	Nutrition	4 credits
EXMB 335	Psychosocial Issues in ExSci	4 credits
EXIP 345	Biomechanics	4 credits
EXIP 365	Perceptual Motor Learning	4 credits
EXIP 385	Physiology of Exercise	4 credits

Human Movement Studies: Requirements for the Minor

EXMB 200	Exercise Science Foundations	2 credits
EXMB 335	Psychosocial Issues in ExSci	4 credits
EXMB or EXIP courses, including at least 4 credits of upper-division		20 credits

Exercise Science / Athletic Training

The College of Health Professions offers entry-level graduate clinical education in Athletic Training (AT) that articulates directly with Exercise Science. It consists of three years of fairly typical work in the College of Arts and Sciences (A&S) and two years of work in the clinical program. This 3/2 pathway is built upon options within the Motor Behavior emphasis and available only to students accepted to the highly selective AT program. Students complete the Bachelor of Science and Master of Science in Athletic Training in 5 years, rather than in 6 as would be the case if they took these two programs separately.

To utilize this route, all A&S core coursework requirements (with the exception of Capstone), all Athletic Training prerequisites, specified Exercise Science classes, and a minimum of 93 total credits shall be completed by the end of the 3rd academic year. During the fall of the junior year, students may apply to begin clinical studies in the AT program for the 4th academic year. If a student is accepted to the AT program, specific coursework successfully completed according to Athletic Training program standards during the first clinical year will satisfy the remaining requirements for the BS in Exercise Science with a Motor Behavior emphasis. These students are also required to deliver a formal public presentation overview of their first year clinical internship experiences to complete the A&S Capstone requirement. The undergraduate diploma will be conferred at the traditional May commencement ceremony of the student's 4th year. If a student is not accepted into the AT program, s/he will have the opportunity to complete the Motor Behavior emphasis during the traditional time-frame with little to no complications.

Use the Motor Behavior Emphasis, incorporating the following:

The Exercise Science core involves the following substitution options:

EXIP 399	is replaced with AT 550 – Research Methods	2 credits
EXIP 400	is replaced with AT 560 – Evidence-Based Practice	2 credits
EXIP 498 & 499	are replaced with AT 540 & 541 - Clinical Internships	4 credits

Complete the following, with one substitution allowed:

EXMB 335	Psychosocial Issues in ExSci	4 credits
OR		
AT 520	Sports Psychology	4 credits
EXMB 366	Human Motor Development	2 credits
HBIO 440	Advanced Human Anatomy	4 credits

The 8 flexible credits in Motor Behavior are replaced by 5 credits from the AT program:

AT 510	Physical Agents and Mechanical Modalities	3 credits
AT 531	Prevention of Sports Injuries I	2 credits

Fourteen credits successfully completed in the first AT year count toward graduation requirements:

AT 500	Orthopedics: Lower Quadrant	7 credits
AT 501	Orthopedics: Upper Quadrant	7 credits

COURSES

EXIP-155 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

EXIP-255 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

EXIP-275 Internship

See department for details. Internship contract required.

EXIP-281 Nutrition

Detailed study of the relationship between nutrition and total individual health across the life-span. Emphasis will be placed on the essential nutrient chemical conversions during digestion, absorption and metabolism and their contribution to optimal health. Individual nutritional analysis and a personalized diet plan will be required. 4 credits.

EXIP-295 Ind Study in Integrated Physiology

See department for details. Independent study contract required.

EXIP-345 Biomechanics & Lab

Study of the structure and functioning of the human body via the methods of classical mechanics. Prerequisite: BIOL 224 or BIOL 230 or HBIO 230; MATH 125; and EXMB 200 each with minimum grade of C-. 4 credits.

EXIP-355 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

EXIP-365 Perceptual Motor Learning

Study of issues related to the understanding, teaching and learning of motor skills. Examination of factors (individual, task, environment) and interactions that influence skill acquisition and performance in daily, recreational, clinical and scientific contexts. Prerequisite: EXMB 200 or Statistics (MATH-207, PSY-350, or SOC-301), each with a minimum grade of C-. 4 credits.

EXIP-385 Physiology of Exercise & Lab

The branch of physiology that deals with function of the body during exercise and adaptations that occur in response. Knowledge and application of scientific principles are necessary to develop peak performance in athletes and maintain health and fitness in the general population - quantitatively and qualitatively improving life. Prerequisite: BIOL 200 or BIOL 202; BIOL 231 or BIOL 240 or HBIO 231; and EXMB 200 (or concurrent enrollment), each with a minimum grade of C-. 4 credits.

EXIP-395 Independent Study

See department for details. Independent study contract required.

EXIP-399 Junior Seminar

Introduces students to the primary research literature in the field of Exercise Science. Topics will include procedures for locating sources of information; introduction to various types of research methodologies; training in the consumption of literature in multiple subdisciplines within Exercise Science, focusing on understanding and analyzing results of scientific studies; training in human subject ethics and the Institutional Review Board process; and enhancing writing skills relevant to scientific reporting. There will be an opportunity for First Aid/CPR/AED certification or recertification. Prerequisites: Declared Exercise Science major; EXMB 200, HBIO 230 and HBIO 231; and 3 of the following courses: EXIP 345, EXIP 365, EXIP 385, EXMB 333, EXMB 336; and MATH 207, or PSY 350, or SOC 301. All specific prerequisite courses must be completed with a minimum grade of C-. Pass/No Pass. 2 credits.

EXIP-400 Advanced Analysis in Kinesiology

This course develops the greater knowledge depth and more sophisticated skills needed to critically analyze existing research literature and design original investigations in a sub-disciplinary area of kinesiology that matches students' interests, backgrounds and goals. Topics will fall within the recognized expertise area of the instructor. Includes active learning components. Prerequisite: Pass EXMB 105 or OL 107, and EXIP 399; and complete 3 of the following courses with a minimum grade of C- in each: EXIP 345, EXIP 365, EXIP 385, EXMB 322, EXMB 323, EXMB 333, or EXMB 336. Instructor's consent required. 2 credits.

EXIP-455 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

EXIP-475 Internship

Internship is an off-campus educational field experience tailored to academic/career goals, where students carefully and thoughtfully apply content from coursework to the situation in which they are engaged. All arrangements must be completed by the student 2 weeks prior to the term in which internship work will occur. Prerequisite: 12 credits of Exercise Science coursework (EXIP & EXMB), each with a minimum grade of C-. Internship contract required. Pass/No Pass.

EXIP-481 Applied Nutrition

A comprehensive review of current research on nutritional strategies to combat obesity and chronic disease and the latest guidelines for proper fueling and hydration for physical activity. Nutritional analyses and development of individualized diet plans for Boxer Boot Camp participants will be required. Counts toward core requirement: Civic Engagement. 4 credits.

EXIP-495 Independent Research

Faculty supervised, student-conducted research activities. May be repeated for new/continuing projects. Independent study contract required.

EXIP-498 Senior Research I

This is the first formal phase of capstone work for senior Exercise Science majors. Students will propose and execute a project on a current topic in exercise science. Students must successfully complete EXIP-498 and EXIP-499 to meet the capstone requirement and normally complete these in consecutive semesters. Prerequisite: EXIP 399 and EXIP 400 with minimum grade C-. Instructor's consent required. 1 credit.

EXIP-499 Senior Research II

This is the final phase of capstone work for senior Exercise Science majors. Students will conclude and disseminate the results of the senior project via poster, presentation, or manuscript. Students must successfully complete both EXIP-498 and EXIP-499 to meet the capstone requirement and normally complete these in consecutive semesters. Prerequisite: EXIP 498 with a minimum grade of C- (or concurrent enrollment). Instructor's consent required. 1 credit.

EXMB-105 First Aid

This course provides lay responders with skills and information needed in emergency situations to help sustain life and minimize pain and consequences of injury or sudden illness until professional medical help becomes available. More advanced than standard American Red Cross first aid/CPR class. Pass/No Pass. 1 credit.

EXMB-195 Independent Study

See department for details. Independent study contract required.

EXMB-200 Exercise Science Foundations

This course presents the basic scientific foundations of and techniques used in the various sub-disciplines of Exercise Science. Prerequisite: MATH 122 with minimum grade of C (or concurrent enrollment). 2 credits.

EXMB-205 Care and Prevention of Athletic Injuries

Students will learn to prevent, evaluate, and care for injuries and other health concerns common to athletic participation. The basics of emergency care and preventive taping will also be addressed. Participation fee required. If a student drops or withdraws from the class after some expenses have been accrued the student will be responsible for those expenses. Prerequisite: EXMB 105 or OL 107. 2 credits.

EXMB-255 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

EXMB-275 Internship

See department for details. Internship contract required. 1-4 credits.

EXMB-295 Independent Study in Motor Behavior

See department for details. Independent study contract required.

EXMB-303 Medical Terminology

This course is designed to provide students with an understanding of the language of medicine. Students will be required to learn basic elements, rules of building and analyzing medical words, and medical terms associated with the body as a whole. Prerequisite: BIOL 200 or BIOL 202 with a minimum grade C-. 1 credit.

EXMB-312 Coaching Principles

General principles applicable to the coaching of sports including strategy and tactics, motivation, ethics, liability, budgeting, and development of organizational, interpersonal, and communication skills. Prerequisites: EXMB-105 and EXMB-311 with a minimum grade of C-. 2 credits.

EXMB-313 Strength & Conditioning Methods

Principles, methods and materials relevant to the design and implementation of strength, endurance, flexibility, speed, power, balance and agility enhancement for diverse populations based on sound scientific principles. Prerequisite: EXIP 385 with minimum grade of C. Recommended: EXIP 345. 2 credits.

EXMB-335 Psychosocial Factors in Exercise Science

Focuses on the social and psychological factors related to participation in sport and physical activity. Students will gain competency in theory and research through the study of such topics of personality, gender, motivation, and socioeconomic status, among others. The focus will be on the North American experience; however, examples from around the world will be used to help students gain different perspectives of the relative importance of sport in North

America, the relative abundance of opportunities to participate in physical activity in North America, and the relative increase in the number of barriers to participating in physical activity across the globe. Prerequisites: EXMB 200 and Sophomore standing or above (30 or more completed credits). 4 credits.

EXMB-350 Selected Topics in Human Movement

Study of a particular topic in the field of human movement (e.g., History of Sport, Exercise & Mental Health, Ergogenic Aids, Gender Issues in Sport) selected by the instructor and approved by the Exercise Science Department. May or may not include lab/practical activity. Prerequisite: Sophomore standing or above (30 or more completed credits); additional prerequisites may apply depending on topic. May be repeated for credit when topic varies. 2 or 4 credits.

EXMB-355 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

EXMB-366 Human Motor Development

This course is designed to use a lecture/discussion/activity structure to study issues related to the development of human motor behavior over the lifespan. Current theory and research will be discussed related to motor and behavioral changes that are commonly experienced in humans from early childhood to late adulthood. Prerequisites: EXIP 365 with minimum grade C-. 2 credits.

EXMB-395 Independent Study

See department for details. Independent study contract required.

EXMB-413 Adult Fitness Practicum: Boxer Boot Camp

A supervised practical experience working with adults in an exercise setting. Boxer Boot Camp is a Pacific University faculty/staff exercise program. Students contribute to individualized program design and serve as fitness leaders for participants. Prerequisite: EXIP 281; and EXIP 385 and EXMB 313. Instructor's consent required. Meets core requirement: Civic Engagement. Pass/No Pass. 2 credits.

EXMB-455 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

EXMB-475 Internship

Internship is an off-campus educational field experience tailored to academic/career goals, where students carefully and thoughtfully apply content from coursework to the situation in which they are engaged. All arrangements must be completed by the student 2 weeks prior to the term in which internship work will occur. Prerequisites: 12 credits of Exercise Science coursework (EXIP & EXMB), each with a minimum grade of C-. Internship contract required. Pass/No Pass.

EXMB-495 Independent Research

See department for details. Independent study contract required.

HBIO-110 Human Biology

An introduction to basic anatomy and physiology of the human organism. This course is designed for non-science majors. Laboratory is integrated with lecture. Students cannot receive credit for HBIO 110 and any combination of the following: BIOL 224, BIOL 240, BIOL 230, BIOL 231, HBIO 230 or HBIO 231. Does not count toward a Biology major or minor. 4 credits.

HBIO-230 Human Anatomy & Physiology I

Human Anatomy and Physiology is a year long course that explores the structure and function of the human body in an integrated fashion. We will cover the 11 anatomical systems and understand how the structure of the human body relates to and defines its function. Emphasis will be placed on integration of systems and information flow. Human Anatomy and Physiology I introduces cytology and histology while surveying the skeletal, nervous, muscular, endocrine and reproductive systems. Prerequisite: BIOL 200 with a minimum grade of C-. Corequisite: HBIO 230L. 4 credits.

HBIO-230L Human Anatomy & Physiology I Lab

Laboratory to accompany Human Anatomy & Physiology I lecture. Corequisite: HBIO 230. 0 credits. Letter graded.

HBIO-231 Human Anatomy & Physiology II

Human Anatomy and Physiology is a year long course that explores the structure and function of the human body in an integrated fashion. We will cover the 11 anatomical systems and understand how the structure of the human body relates to and defines its function. Emphasis will be placed on integration of systems and information flow. Human Anatomy and Physiology II emphasizes sensory physiology, circulatory, lymphatic, immune, respiratory, digestive and urinary systems. Prerequisite: HBIO 230 with a minimum grade of C-. Corequisite: HBIO 231L. 4 credits.

HBIO-231L Human Anatomy & Physiology II Lab

Laboratory to accompany Human Anatomy & Physiology II lecture. Corequisite: HBIO 231. 0 credits. Letter graded.

HBIO-440 Advanced Human Anatomy and Lab

Advanced study of gross and histological structure of the human body. Focus is on musculoskeletal, nervous and cardiovascular systems. Prerequisite: BIOL 240 or BIOL 231 or HBIO 231 with a minimum grade of C-. 4 credits.

HPER-101 Cardio Sculpt

Exercise emphasizing dance movements. May be repeated for credit. Up to 8 activity credits may count toward the 124 credits required for graduation. Pass/No Pass. 0-1 credit.

HPER-102 Step Aerobics

Step aerobics. May be repeated for credit. Up to 8 activity credits may count toward the 124 credits required for graduation. Pass/No Pass. 0-1 credit.

HPER-103 Body-Mind Fitness

Workouts emphasizing mindful movements informed by yoga, martial arts, dance, and other modalities. May be repeated for credit. Up to 8 activity credits may count toward the 124 credits required for graduation. Pass/No Pass. 0-1 credit.

HPER-104 Circuit Training for Women

Multi-station fitness training with enrollment limited to women. May be repeated for credit. Up to 8 activity credits may count toward the 124 credits required for graduation. Pass/No Pass. 0-1 credit.

HPER-105 Fitness Walk/Jog

Exercise emphasizing locomotor activities. May be repeated for credit. Up to 8 activity credits may count toward the 124 credits required for graduation. Pass/No Pass. 0-1 credit.

HPER-106 Speed, Quickness, and Agility

Exercise emphasizing rapid anaerobic movements. May be repeated for credit. Up to 8 activity credits may count toward the 124 credits required for graduation. Pass/No Pass. 0-1 credit.

HPER-107 Swimming

Aquatic exercise; not for non-swimmers. May be repeated for credit. Up to 8 activity credits may count toward the 124 credits required for graduation. Pass/No Pass. 0-1 credit.

HPER-108 Weight Training

Basic resistance training. May be repeated for credit. Up to 8 activity credits may count toward the 124 credits required for graduation. Pass/No Pass. 0-1 credit.

HPER-109 Tai Chi

Balance and stability exercise with an Eastern flair. May be repeated for credit. Up to 8 activity credits may count toward the 124 credits required for graduation. Pass/No Pass. 0-1 credit.

HPER-111 Yoga

Develops balance, flexibility, and strength. May be repeated for credit. Up to 8 activity credits may count toward the 124 credits required for graduation. Pass/No Pass. 0-1 credit.

HPER-113 Strength Training for Women

Resistance training class limited to women. May be repeated for credit. Up to 8 activity credits may count toward the credits required for graduation. Pass/No Pass. 0-1 credit.

HPER-121 Badminton

Basic instruction and play. May be repeated for credit. Up to 8 activity credits may count toward the 124 credits required for graduation. Pass/No Pass. 0-1 credit.

HPER-122 Bowling

Basic instruction and activity; off campus. Participation fee required. If a student drops or withdraws from the class after some expenses have been accrued the student will be responsible for those expenses. May be repeated for credit. Up to 8 activity credits may count toward the 124 credits required for graduation. Pass/No Pass. 0-1 credit.

HPER-123 Golf

Basic instruction and activity; off campus. Participation fee required. The fee is paid to the golf course and is for the use of golf course, rental clubs, and range balls during class times. If a student drops or withdraws from the class after some expenses have been accrued the student will be responsible for those expenses. to the golf course for May be repeated for credit. Up to 8 activity credits may count toward the 124 credits required for graduation. Pass/No Pass. 0-1 credit.

HPER-124 Handball

Basic instruction and play. May be repeated for credit. Up to 8 activity credits may count toward the 124 credits required for graduation. Pass/No Pass. 0-1 credit.

HPER-125 Pickleball

A tennis-like game played on a smaller indoor court. May be repeated for credit. Up to 8 activity credits may count toward the 124 credits required for graduation. Pass/No Pass. 0-1 credit.

HPER-126 Racquetball

Basic instruction and play. May be repeated for credit. Up to 8 activity credits may count toward the 124 credits required for graduation. Pass/No Pass. 0-1 credit.

HPER-127 Rowing

Basic instruction and activity; off campus. Participation fee required. If a student drops or withdraws from the class after some expenses have been accrued the student will be responsible for those expenses. May be repeated for credit. Up to 8 activity credits may count toward the 124 credits required for graduation. Pass/No Pass. 1 credit.

HPER-128 Taekwondo

Basic instruction and training. May be repeated for credit. Up to 8 activity credits may count toward the 124 credits required for graduation. Pass/No Pass. 0-1 credit.

HPER-129 Tennis

Basic instruction and play. May be repeated for credit. Up to 8 activity credits may count toward the 124 credits required for graduation. Pass/No Pass. 0-1 credit.

HPER-130 Ultimate Frisbee

Basic instruction and play. May be repeated for credit. Up to 8 activity credits may count toward the 124 credits required for graduation. Pass/No Pass. 0-1 credit.

HPER-131 Volleyball

Basic instruction and play. May be repeated for credit. Up to 8 activity credits may count toward the 124 credits required for graduation. Pass/No Pass. 0-1 credit.

HPER-142 Hula

Basic instruction and performance. May be repeated for credit. Up to 8 activity credits may count toward the 124 credits required for graduation. Pass/No Pass. 0-1 credit.

HPER-143 Recess

Various youthful play activities as exercise. May be repeated for credit. Up to 8 activity credits may count toward the 124 credits required for graduation. Pass/No Pass. 0-1 credit.

HPER-144 Women's Personal Self Defense

Basic instruction and training. May be repeated for credit. Up to 8 activity credits may count toward the 124 credits required for graduation. Pass/No Pass. 0-1 credit.

HPER-156 Alpine Skiing

Instruction and activity at Mt. Hood. Transportation fee (non-refundable) billed to students upon registration. Students will also pay Mt. Hood Meadows directly for the package they select. Prices for the most popular packages are listed in the course schedule; others are available. May be repeated for credit. Up to 8 activity credits may count toward the 124 credits required for graduation. Pass/No Pass. 0-1 credit.

HPER-157 Outdoor Recreation

Day and overnight wilderness outings. Participation fee required. The fee is used for class outings (i.e. transportation, food, campsites and permits). If a student drops or withdraws from the class after some expenses have been accrued the student will be responsible for those expenses. May be repeated for credit. Up to 8 activity credits may count toward the 124 credits required for graduation. Pass/No Pass. 0-1 credit.

HPER-158 Rock Climbing

Basic instruction and in-field activity. Participation fee required. The fee for is used for class outings (i.e. transportation, food, campsites and permits). If a student drops or withdraws from the class after some expenses have been accrued the student will be responsible for those expenses. May be repeated for credit. Up to 8 activity credits may count toward the 124 credits required for graduation. Pass/No Pass. 0-1 credit.

HPER-159 Introduction to Kayaking

White water and coastal sea kayaking for beginners. Participation fee required for class outing costs (e.g., transportation, food, permits). If a student drops or withdraws after some expenses have been accrued, the student will be responsible for those expenses. May be repeated for credit. Up to 8 activity credits may count toward the 124 credits required for graduation. Pass/No Pass. 0-1 credit.

HPER-160 Snowboarding

Instruction and activity at Mt. Hood. Transportation fee (non-refundable) billed to students upon registration. Students will also pay Mt. Hood Meadows directly for the package they select. Prices for the most popular packages are listed in the course schedule; others are available. May be repeated for credit. Up to 8 activity credits may count toward the 124 credits required for graduation. Pass/No Pass. 0-1 credit.

HPER 171 – 193: Intercollegiate athletic team membership. May be repeated for credit. Up to 8 activity credits may count toward the 124 credits required for graduation. Pass/No Pass. 0-1 credit:

- HPER-171 Intercollegiate Baseball
- HPER-172 Intercollegiate Basketball-M
- HPER-173 Intercollegiate Basketball-W
- HPER-174 Intercollegiate Cross Country-M
- HPER-175 Intercollegiate Cross Country-W
- HPER-176 Intercollegiate Football
- HPER-177 Intercollegiate Golf-M
- HPER-178 Intercollegiate Golf-W
- HPER-179 Intercollegiate Lacrosse
- HPER-180 Intercollegiate Soccer-M
- HPER-181 Intercollegiate Soccer-W
- HPER-182 Intercollegiate Softball
- HPER-183 Intercollegiate Swimming-M
- HPER-184 Intercollegiate Swimming-W
- HPER-185 Intercollegiate Tennis-M
- HPER-186 Intercollegiate Tennis-W
- HPER-187 Intercollegiate Track&Field-M
- HPER-188 Intercollegiate Track&Field-W
- HPER-189 Intercollegiate Volleyball
- HPER-190 Intercollegiate Wrestling-M
- HPER-191 Intercollegiate Wrestling-W
- HPER-192 Intercollegiate Rowing-W
- HPER-193 Intercollegiate Cheerleading

GENDER AND SEXUALITY STUDIES

Alex Bove, Jennifer Bhalla, Lisa Carstens, Jason Dameron, Jeanne-Sarah de Larquier, Amanda Duncan, Lorely French, Aaron Greer, Jennifer Hardacker, Jessica Hardin, Lawrence Lipin, Katharine Loevy, Ellen Margolis, Darlene Pagan, Sarah Phillips, Kathlene Postma, Adam Rafalovich, Martha Rampton, Dawn Salgado, Paul Snell, Tim Thompson, Enie Vaisburd, Jaye Cee Whitehead

Gender and Sexuality Studies (GSS) is an interdisciplinary minor that investigates the significance of sex and gender in all areas of human experience. Grounded in the notion that sexuality and gender are crucial factors in understanding human experience, the Gender and Sexuality Studies minor features courses that investigate and reevaluate the meanings of "male" and "female," while also focusing on progressive gender-identities that challenge these traditional binaries, such as gay, queer, and transgender. The GSS minor includes courses that reevaluate the assumptions at work in traditional disciplines and expand the study of individuals, cultures, social institutions, social policy and other areas of scholarly inquiry. The GSS minor is designed to encourage students to critically interrogate and actively engage in social processes related to gender and sexuality. The GSS minor is the academic and research arm of the Center for Gender Equity (CGE), the mission of which is to support gender equity through dialogue, programming, service, research, education, and advocacy in order to facilitate collaborative, humane, and sustainable University, local and global communities.

The Gender and Sexuality Studies minor has as its framework 1) the introductory course, 2) the "GSS in Practice" requirement, and 3) topics courses. 1) The introductory course lays the groundwork for the minor by exposing students to the guiding questions, frameworks and theories in Gender and Sexuality Studies. 2) The "GSS in Practice" requirement allows students to apply, outside the classroom, the theoretical constructs covered in GSS courses. The "GSS in Practice" options are mentoring students, working on the staff of the Center for Gender Equity, and engaging in an independent artistic/research project. 3) Elective topics courses concentrate on contemporary issues and provide a multidisciplinary approach to the study of gender and sexuality.

The GSS minor requires students to take a breadth of electives. Students must not take more than 8 elective credits within one of the three schools (Social Sciences, Art & Humanities, and Natural Sciences). Students should plan to take GSS 201 in the spring semester of either their freshman or sophomore year. GSS 201 will be taught only in the spring. Students who wish to declare the Gender and Sexuality Studies minor are advised to do so by the spring of their sophomore year.

Program Learning Outcomes

- The Gender and Sexuality Studies minor includes courses that evaluate the assumptions at work in traditional disciplines and expand the study of individuals, cultures, social institutions, social policy and other areas of scholarly inquiry.
- The minor also encompasses courses that examine the roles of people of all genders, the nature of work and the family, and the importance of race, ethnicity, class, and culture through the study of sexuality and gender.
- The Gender and Sexuality Studies minor is designed to encourage students to critically interrogate and actively engage in social processes related to the construction of gender.

Gender and Sexuality Studies: Requirements for the Minor

GSS 201	Intro to Gender & Sexuality Studies	4 credits
OR		
GSS 303*	Advanced Gender & Sexuality Theory	4 credits
GSS in Practice		4 credits
GSS 341	Service for Gender Equity (2 credits)	
GSS 453	Creative Work/Research (2 credits)	
GSS 456	Mentoring in GSS (2 credits)	
GSS Electives:		12 credits

For GSS course electives that are cross-listed, students may not take more than 8 credits in one school; at least 4 should be upper division. GSS 303 may count as an elective if not taken in place of GSS 201. Students may take a third GSS in Practice for elective credit.

TOTAL: 20 credits

* Students who have taken at least two upper division GSS courses may substitute GSS 303 for GSS 201

COURSES

GSS-113 Islamic Mid-East: 570-1300

This is a survey of the history of the Islamic Middle East from the birth of Muhammad in 570 to the rise of the Ottoman Turks in 1300. The course concentrates on political developments and institutions as well as the growth and evolution of Islam and Islamic cultures. The course includes a segment on the roles, prerogatives, and challenges of Muslim women in the past and contemporary societies. A field trip to a Mosque and several speakers, including Muslim women, are integral to the course. Counts toward core requirement: Diverse Perspectives and/or International Perspectives. Also listed as HIST 113. 4 credits.

GSS-200 Introduction to Queer Studies

This course will provide an overview of queer communities through an interdisciplinary approach including a focus on the intersections of ethnicity, class, culture, sex and gender among gay, lesbian, bisexual, trans and other sexual and gender identities. Theoretical, political, historical, and social frameworks will inform the basis of learning how queer communities negotiate identities outside of the hegemonic mainstream concepts of sexuality and gender. Counts toward core requirement: Humanities and Diverse Perspectives. 4 credits.

GSS-201 Introduction to Gender & Sexlty Studies

This introductory level course explores the various foundations of gender and sexuality studies with an interdisciplinary focus. The course aims to explore several issues of gender and sexuality in the media, cinema, literature, and theory. Students review and critique the construction of gender and sexuality under patriarchy in the past and study similar yet different structures of power in current discourse. The course consists of two components: a

classroom experience with an emphasis on the breadth of literature on feminism, queer theory, and masculinities, and field work in the community. Counts toward core requirement: Humanities and Diverse Perspectives. 4 credits.

GSS-206 Sex, Gender, Culture

In all societies, people organize social relationships and identities, ideologies and symbolic systems, in terms of gender and sexuality, but they do so in different ways. In this course, we will examine the ways in which individuals and societies imagine, experience, impose and challenge gender and sexuality systems in a diversity of cultural contexts, including those of the United States, Oceania, Africa, and Asia. One of the aims throughout the course will be to explore other societies as a means of better understanding and critiquing our own. Also listed as ANTH 206. Prerequisites: GSS 201, ANTH 101, SOC 101, SOC 102, SOC 110, SOC 120, or SOC 130. Counts toward core requirement: Diverse Perspectives and International Perspective. Offered triennially. 4 Credits.

GSS-211 Preparation for Travel in India

This is a course that will prepare students for Travel in India: Gender, Culture and Service, a Winter III course sponsored by the Center for Gender Equity. This course will provide students with the information necessary to help them get the most of their WIII experience. The content will cover the basic history, religion, culture, geography, and politics of India. Also listed as HUM 211. Counts toward core requirement: International Perspectives. 2 credits.

GSS-212 Theatre for Gender Equity

This workshop course will devise new work or engage with existing texts to present theatrical performance on a given theme and in accord with the mission of the Center for Gender Equity. Also listed as THEA 212. May be repeated once for credit. 2 credits.

GSS-220 Literature and Human Concerns

See the Gender and Sexuality Studies department for the course description. May be repeated for credit. 4 credits.

GSS-247 Gender & Sexuality in Victorian America

This course treats the development and spread of Victorian culture in the United States during the nineteenth century, particularly as it defined ideas about gender and sexuality. Focus is on the creation of "women's sphere" and ways in which women accommodated themselves to domesticity, rebelled against it, or used it themselves to discipline their husbands and sons. Also listed as HIST 247. Counts towards core requirement: Diverse Perspectives. 4 credits.

GSS-255 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

GSS-265 Gender, Sexuality, & Sport

This course examines the intersection of culturally-based gender ideologies within the systems of sport and physical activity across various competitive levels. Sport continues to be an expression of dominant masculinity and shapes the (hetero)gender binary system. This course will examine and investigate the intersections between gender, race, and sexuality using a variety of theoretical frameworks (e.g., feminism, critical race theory, queer theory) while considering the history of sport and Title IX, relative to women's emergence into athletics, and the commonalities and differences of men's and women's experiences in sport. Counts toward Diverse Perspectives core requirement. 2 credits.

GSS-275 Internship

See department for details. Internship contract required. 1-4 credits.

GSS-280 Women in Art

This course is designed to explore the place of women in art. The course investigates both the image of women in art and women as artists. The course will be thinking about women's relationship to art at different times and in different cultures. The goal of the class is to shine light on material that has often been overlooked by the traditional art history canon. Feminist theory class desirable. Also listed as ARTHI 280. Meets Gender & Sexuality Studies minor requirement. 4 credits.

GSS-295 Independent Study

See department for details. Independent study contract required.

GSS-300 Special Topics in Gender & Sexuality

This is a special topics course focusing on the specific interests of the faculty and students in the Gender and Sexuality Studies minor program. Topics addressed in the course will be derived from a variety of disciplinary standpoints, and may involve interdisciplinary collaboration. Some examples of topics that may be offered through this course are: "The Development of Gender," "Women and Film," and "Feminist Epistemology" to name a few. Prerequisite: GSS 201. May be repeated for credit. 4 credits.

GSS-302 Multi-Media for Sexual Health Promotion

This course provides students with skills and experience in planning and executing a multi-media health campaign as applied to contemporary sexual health issues. The course includes the development of useful sexual health messages based on community needs, exploration of various mass communication strategies, technical experience in the use of various media sources, a critical understanding of the theoretical foundations for intervention methods, as well as media-based intervention evaluation. Students will have an opportunity to take an active role in creating their own interventions as well as exploring personal attitudes and values surrounding sexual health messages. Content areas may include public service announcements, film and drama, web-based and social media (Blogs, website, YouTube, Facebook, and Twitter), one-on-one education via tabling events, print, radio, or podcast. Particular attention will be paid to the practical application of communication and learning theories, collaborative relationships, and strategies for dealing with potential challenges. Prerequisite: Junior Standing or above (60 or more completed credits). 4 credits.

GSS-303 Advanced Gender and Sexuality Theory

This course will expand upon, and develop a more advanced understanding of, the academic discourses and theories of gender and sexuality introduced in GSS 201. We will draw on a range of theoretical frameworks, including post-Marxism, poststructuralism, psychoanalytic criticism, feminism, and queer theory, in order to address social concerns and analyze gender themes in the media, cinema, and literature. We will explore the ways in which the concept of gender is socially constructed through institutional power arrangements, popular culture representations, and everyday social dynamics, and examine how contemporary feminist theory differs from the early feminist movement. Discussions will address questions such as: what does it mean to "queer" cultural norms or political traditions and how does queer and feminist theory enable a more broad and inclusive discussion of politics in contemporary society. Also listed as PSJ 303. Prerequisite: GSS 201. Counts toward core requirement: Humanities (2010 catalog) and Diverse Perspectives. 4 credits.

GSS-309 Families

The primary emphasis is on the relationship between the familial institution and the society in which it is being studied. Attention is given to trans-historical and cross-cultural data and how social change impacts the institution. Additional areas of investigation include definitions of the family, socialization, cohabitation, courtship, marriage, divorce, gender and sex roles, sexuality, socio-economic forces, family violence, alternative forms, and the future of the family. Also listed as SOC 309. Prerequisite: SOC 101, SOC 102, SOC 110, SOC 120, SOC 130, or SOC-150. Counts toward core requirement: Social Sciences (2010 catalog). 4 credits.

GSS-310 Travel in India: Gender Society Service

Travel in India: Gender, Culture and Service is a Winter term course sponsored by the Center for Gender Equity. It consists of two and a half weeks travel in southern India during the month of January. The bulk of the course is conducted at Lady Doak College, a small liberal arts women's college in Madurai, India in Tamilnadu. The course consists of lecture and discussion by Lady Doak faculty, service learning, discussion with local service agencies, fieldwork on a topic of the student's choice, and travel to sites of cultural and historic importance. The participant is required to register for HUM 211 the fall semester prior to the travel portion of the class. Also listed as HUM 310. Prerequisite: HUM 211. Counts toward core requirement: Civic Engagement and/or International Perspectives. 2 credits.

GSS-311 Medicine, Body and Culture

This course is an introduction to critical areas of inquiry in medical anthropology. By examining the socio-cultural dimensions of sickness and healing cross-culturally, we will explore how anthropologists have approached historical and contemporary problems in the global field of medicine. While our course trajectory will lead us to treat Western biomedicine as only one among many systems of meaning and authority, we will also spend some time deconstructing the often unspoken assumptions that govern this field, thereby complicating the notion that the latter is somehow insulated from the reach of culture. We will also focus on issues of power, inequality, and gender and health. Pre-requisite: ANTH-101, GSS-201, SOC-101, ANTH-140, SOC-217 OR PH-101. Counts towards core requirement: International Perspectives, Diverse Perspectives, Civic Engagement. 4 credits.

GSS-316 Gender & Sexuality

An introduction to the theories and methods used by sociologists to study gender and sexuality as social performances and historical constructions. Topics include masculinities, intersectionality, sexual culture, pornography, and gender inequality in the workplace. Also listed as SOC 316. Prerequisite: SOC 110, SOC 120, SOC 130, or SOC 150. Must be 18 years of age. Counts toward core requirement: Diverse Perspectives. Course offered biennially. 4 credits.

GSS-321 Women's Writing in Francophone World

Survey of women's writing in the Francophone world throughout the 20th Century. Special focus on the novel and the development of alternate prose forms. Authors from France, Switzerland, Belgium, Quebec, the French Caribbean, Senegal, and Algeria may be included. Taught in French. Also listed as FREN 320. Prerequisite: FREN 202 or placement. Counts toward core requirement: International Perspectives. Offered intermittently. 4 credits.

GSS-341 Service for Gender Equity

This course entails designing, organizing, and carrying out service projects and programming for The Center for Gender Equity (CGE). Students will be expected to place their work within an analytical context informed by service learning and "civic engagement" theory. Instructor's consent required. Counts toward core requirement: Civic Engagement. May be repeated once for credit. 2 credits.

GSS-342 Studies in Fiction

A study of the development of the short story and novel, with an emphasis on exploring interpretive models. Also listed as ENGL 342 when content allows. Prerequisite: 2 credits of 200-level ENGL. Offered every year. 4 credits.

GSS-343 Food, Fat, and Fitness

The United States is a culture obsessed with food, fat, and fitness. As efforts to reduce obesity increase, rates of obesity actually increase. Why is that? This anthropology course depends heavily on interdisciplinary perspectives to explore the connections between body size and culture, examining food, fat, and fitness not just as public health issues but as culturally and historically constructed categories related to gender, race, sexuality, and class. While we will explore biocultural approaches to obesity, this course is not a biomedical study of the "obesity epidemic." Instead we examine the discourses and vocabulary used to describe this current "crisis." Also listed as GSS 343 and ANTH 343. Prerequisites: ANTH 101, GSS 201, SOC 101, ANTH 140, SOC 217, or PH 101. Offered alternate years. 4 credits.

GSS-344 Studies in Criticism & Theory

Ranging from Structuralism and Deconstruction to Psychoanalysis, Gender and Sexuality Studies, Post-colonialism, and Film Theory, this course explores some of the most important and influential schools of thought in the twentieth and twenty-first centuries and their impact on literary criticism, literature, art and culture. Class discussions will draw on different critical approaches, such as psychoanalysis, post-humanism, and gender and sexuality theory, to interpret an array of subjects ranging from novels to films to current political affairs and cultural trends. Also listed as ENGL 343 and PHIL 343. Prerequisite: 2 credits of 200-level ENGL. Offered alternate years. 4 credits.

GSS-355 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

GSS-361 Psychology of Gender

Psychology of gender will provide students with a survey of psychological theory and research on the influence of gender, gender identity, and gender labels on the cognitive, social, physical states of humans across the lifespan. Course materials will include intersections of gender with other key social identities including race/ethnicity, socioeconomic status, ableness, ageism, and sexual orientation. Prerequisite: Junior standing (60 or more completed credits), PSY 150 with a minimum grade of C, and one of the following: PSY 350, PSY 348, SOC 301, SOC 300, ANTH 301, SOCWK 310, or PH 300. Counts towards core requirement: Diverse Perspectives. 4 credits.

GSS-363 Gender, Sexuality, & Performance

This course examines gender in and as performance, bringing feminist and queer studies lenses and contemporary theories of gender construction to a variety of performances and texts. Topics will include representations of gender and sexuality within the canon; construction of gender through performances on stage and in everyday life; and the challenging of roles and assumptions through dynamic choices in playwriting, directing, acting, and design. Also listed as THEA 363. Prerequisite: Sophomore standing or above (30 or more completed credits). Counts toward core requirement: Diverse Perspectives. 4 credits.

GSS-365 Advanced Gender, Sexuality, & Sport

This course examines the intersection of culturally-based gender ideologies within the systems of sport and physical activity across various competitive levels. Sport continues to be an expression of dominant masculinity and shapes the (hetero)gender binary system. This course will examine and investigate the intersections between gender, race, and sexuality using a variety of theoretical frameworks (e.g., feminism, critical race theory, queer theory) while considering the history of sport and Title IX, relative to women's emergence into athletics, and the commonalities and differences of men's

and women's experiences in sport. Course material for this advanced section will extend beyond the introductory level. Students will be required to complete additional assignments to those of GSS 265. Counts toward core requirement: Diverse Perspectives. 2 credits.

GSS-395 Independent Study

See department for details. Independent Study contract required.

GSS-400 Medieval Women

This course is a seminar on the attitude towards, roles, work, and responsibilities of women in the period from the first century to the fifteenth century. Women in their roles as nuns, witches, prostitutes, brewers, mothers, queens, and consorts are discussed. The course is thematic as well as chronological, and investigates anthropological, feminist, and political theories and paradigms associated with the study of women generally. Assigned reading consists of primary sources, secondary monographs, and journals. Also listed as HIST 400. Prerequisite: Junior standing or above (60 or more completed credits). 4 credits.

GSS-421 Women's Writing in Francophone World

Survey of women's writing in the Francophone world throughout the 20th Century. Special focus on the novel and the development of alternate prose forms. Authors from France, Switzerland, Belgium, Quebec, the French Caribbean, Senegal, and Algeria may be included. Students taking the course at the 400-level must complete more elaborate assignments in French that require more expertise in French. Taught in French. Also listed as FREN 420. Prerequisite: Two 300-level FREN courses or 12 upper-division credits earned overseas in a French-speaking country. Counts toward core requirement: International Perspectives. Offered intermittently. 4 credits.

GSS-425 Studies/20th Cent Lit

Intensive studies in major writers of the period. Prerequisite: Junior standing or above (60 or more completed credits), GSS 201, and two courses (minimum 2 credits each) from 200-level ENGL or above. 4 credits.

GSS-430 Major Writers

A detailed study of the works of selected writers: for example, Chaucer, Milton, Dickens, Blake, Yeats, Thoreau, Woolf. Also listed as ENGL 430 when content allows. Prerequisite: Junior standing or above (60 or more completed credits), GSS 201, and 2 courses (minimum 2 credits each) from 200-level ENGL or above. May be repeated for credit when content varies. Offered intermittently. 4 credits.

GSS-453 Creative Work or Research in GSS

This course is designed to allow students an opportunity to conduct creative work or research in the area of Gender and Sexuality Studies; including individual research studies, creative projects or participation in organizing and/or conducting the annual GSS interdisciplinary conference. The project will be developed in consultation with the chair of GSS. Prerequisite: GSS 201 and two GSS electives. May be repeated for credit. Offered Fall and Spring. 2 credits.

GSS-455 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

GSS-456 Gender & Sexuality Studies Mentoring

This course is designed to allow advanced GSS minors to guide students new to GSS. Students enrolled in this course will mentor students enrolled in GSS 201. The specific duties and assignments will be developed in consultation with the professor of GSS 201. Prerequisite: Junior standing or above (60 or more completed credits), GSS 201, and 2 additional courses from GSS. May be repeated for credit. 2 credits.

GSS-475 Internship

See department for details. Internship contract required.

GSS-495 Independent Study

See department for details. Independent Study contract required.

HEALTH PROFESSIONS EDUCATION

Hannah Seagrave, MS
Advantages-Pathway Coordinator
Career Development Center

COURSES

HPE-190 Passport in Health Professions Education

An introductory course that provides students with a survey of health care careers, including pathways to prepare to enter these careers. Invited speakers will discuss opportunities and challenges, as well as educational and other requirements for various health care careers. Pass/No Pass. 0-1 credit.

HPE-275 Internship

See department for details. Internship contract required. 1-4 credits.

HPE-290 Intro to Clinical Practice

This course is designed for sophomores in the Advantage Program. Course topics include HIPAA, procuring internships, ethical issues in health care, health care as a business, funding professional education, and community service and healthcare. Prerequisite: HPE-190 or EXMB-100. Instructor's consent required. Pass/No Pass. 0-1 credit.

HPE-390 Manage Grad School Application Process

This course is designed for juniors in the Advantage Program. Course topics include personal statements and essays for graduate school applications, test-taking strategies for standardized exams, graduate school time management and interviewing for graduate school. Prerequisite: HPE 290 and cumulative GPA of 3.2 or better. Instructor's consent required. Pass/No Pass. 1 credit.

HPE-475 Internship

See department for details. Internship contract required. 1-14 credits.

HISTORY

Larry Lipin, Chair; Richard Ivan Jobs, Martha Rampton, Lisa Szefel, Timothy Yang

The discipline of history is central to the liberal arts; it draws on and contributes to neighboring fields, such as political science, literature, philosophy and the arts, to name but a few. History is essential to an understanding of the evolutionary nature of the institutions and values that have not only shaped the past but inform the present. The study of history prepares students for a wide range of professions, including law, government, archival and museum work, professions in travel and teaching.

The major in History is designed to provide the student with a broad range of offerings in various fields of history. Through these studies, the department seeks to teach its majors to conduct creative and comprehensive research projects, to read historical materials with understanding, to engage in critical analysis from an historian's perspective and to write polished communicative prose.

The curriculum established by the History major leads the student from broad-based survey classes that cover the U.S., Europe, South America, Islamic Middle East and Asia to more narrowly defined upper-division classes in the specialty of the student's choice. Students encounter the scholarly methodology employed by historians that contributes to the development of verbal, analytical and reading skills. More specifically, throughout the curriculum, history courses require students to produce written work that emphasizes focused analysis supported by historical evidence. In addition, at the lower-division level, students become familiar with basic historical narratives. At the upper-division level, students use primary sources in pursuit of questions of an increasingly thematic nature. Their research capitalizes on the electronic resources currently available. As juniors, History majors participate in a seminar emphasizing historical perspectives, methodological techniques, and a variety of interpretive historical models. History majors complete a thesis in the last semester of their senior year that demonstrates competence with historical theory and methods.

Program Learning Outcomes

- Provide students with a broad range of offerings in various fields of history
- Teach majors to conduct creative and comprehensive research projects
- Read historical materials with discernment
- Engage in critical analysis from a historical perspective
- Write polished communicative prose

History: Requirements for the Major

Students must take at least one course from each geographic field: American (including Latin America), Asian (including Middle East), and European.

At least 8 credits from the following:

HIST 101, 103, or 104	Western Civilization I, II, III
HIST 115	East Asian Civilization
HIST 113	Middle East
HIST 141, 142	American History I & II

At least 8 credits must be at the 200-level in history

At least 24 additional credits taken at the 300-level or above in history (not including 391), with at least 4 credits in a 400-level seminar-style class (not including 491 or 492) or an approved internship.

HIST 391	Research and Methods in History	4 credits
HIST 491	Senior Thesis I Fall	2 credits
HIST 492	Senior Thesis II Spring	2 credits

TOTAL: 48 Credits

History: Requirements for the Minor

For a minor in History, a student must complete 24 credits in the History Department, at least 12 of which must be at the 300-level or above

TOTAL: 24 Credits

COURSES

HIST-101 Western Civilization I

This course covers the development of western culture and institutions from the Ancient World to the late Middle Ages. 4 credits.

HIST-103 Western Civilization II

This course covers the development of western culture and institutions from the late Middle Ages to the Enlightenment. 4 credits.

HIST-104 Western Civilization III

This course covers the development of western culture and institutions in Europe from the Enlightenment to the Contemporary Era. 4 credits.

HIST-113 Islamic Mid-East: 570-1300

This is a survey of the history of the Islamic Middle East from the birth of Muhammad in 570 to the rise of the Ottoman Turks in 1300. The course concentrates on political developments and institutions as well as the growth and evolution of Islam and Islamic cultures. The course includes a segment on the roles, prerogatives, and challenges of Muslim women in the past and contemporary societies. A field trip to a Mosque and several speakers, including Muslim women, are integral to the course. Counts toward core requirement: Diverse Perspectives and/or International Perspectives. Also listed as GSS 113. 4 credits.

HIST-115 East Asian Civilization

A historical survey of three Asian countries: China, Japan, and Korea. We will begin with an introduction to the historical, cultural, and philosophical foundations of East Asia. Then we will examine how East Asia became modern, focusing on socio-economic transformations and geopolitical

challenges from the 16th century to the dawn of the 21st century. Major themes include Confucianism, Buddhism, and Daoism; Imperial China and Korea; Tokugawa Japan; Pan-Asianism; Imperialism; and post-World War Two reconstruction and reforms. Counts toward core requirement: International Perspective. 4 credits.

HIST-141 American History I

The first of a two-part survey of American history from European settlement to the Civil War, and from Reconstruction to the present. The parts may be taken separately. 4 credits.

HIST-142 American History II

The second of a two-part survey of American history from Reconstruction to the present. The parts may be taken separately. 4 credits.

HIST-155 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

HIST-195 Independent Study

See department for details. Independent study contract required.

HIST-200 The Geography and Politics of Africa

A general survey of the geography of Africa and a more detailed analysis on the basic characteristics of politics in Africa with attention to the role of the military, violence, and ethnicity. Individual countries will be used to illustrate the great variety of politics, especially in comparing North Africa from sub-Saharan Africa. Ghana, South Africa, Egypt, and the Democratic Republic of the Congo are usually covered in more detail. 2 credits.

HIST-205 History of the Crusades

This class is a history of the causes and course of the crusades (ca. 1070-1291) from the perspective of both the Christian Europeans and the Muslim Arabs and Turks. The class will cover Europe from the beginning of the eleventh century when the reform movements that set the crusades in motion began, until the end of crusading in the early thirteenth century; and the social/cultural history of the interaction between Muslims and Christians in the Holy Land during the period of the crusades. The focus will be on events in the Middle East rather than in Europe. Instruction will be based on lecture, discussion, videos, and writing assignments. 4 credits.

HIST-208 England From Rome to Revolution

This course covers the history and culture of England from the Roman period through the Glorious Revolution of 1688. Equal attention is given to political and social/cultural aspects of English history. Through reading of primary sources, discussions and lecture, the course deals with the distinctiveness of England, as well as placing the nation within a broad European historical context. 4 credits.

HIST-216 History of Modern Japan

Introduces students to the history of modern Japan, from the Meiji Restoration of 1868 to the present. Major themes and events include Japan's development as a nation-state, its colonial empire, the Asia-Pacific War, and its "miraculous" postwar recovery and growth. Although the course ostensibly surveys the history of a single nation and society, the emphasis will be on how this history relates to broader socio-economic and political phenomena throughout the world. Offered alternate years. Counts toward core requirement: International Perspectives. 4 credits.

HIST-217 Making of Modern China

This course provides a survey introduction to the history of modern China from the Qing dynasty in the nineteenth century through China's tumultuous twentieth century. Major themes include: the Opium War; the 1911 Revolution; China's exploration of different systems of government like republicanism, militarism, nationalism, and socialism; intraregional cooperation and conflict; the battle between the Nationalists and the Communists; and urban-rural social divides. The latter part of the course will focus on the post-1949 era marked by state socialism and events such as the Great Leap Forward, the Cultural Revolution, and Tiananmen Square. 4 credits.

HIST-232 The Holocaust

This course explores the rise of Adolf Hitler and Nazism, the persecution of Jews and others in the Third Reich, and the ultimate extermination of the Jews of Europe, Gypsies, political enemies, and others deemed undesirable by the Nazi dictatorship of Europe during the Second World War. Counts toward core requirement: Diverse Perspectives. 4 credits.

HIST-233 WWII: Global & Social Issues

This class will analyze the origins and impact of the Second World War. We will begin in 1918 by looking at the Treaty of Versailles that ended the Great War, trace the rise of Mussolini and Hitler, examine the world-wide economic crisis in the 1930s, and isolationism in America. We will also investigate American life during the war, Japanese internment and negative portrayals of Japanese in US propaganda, the Holocaust, atomic warfare, the plight of gay and black soldiers, and the postwar world that led to American global power as well as a new Cold War with the Soviet Union. 4 credits.

HIST-234 The Trial of Galileo

The Trial of Galileo shows the confrontation between Copernicanism, as brilliantly propounded by Galileo, and the elegant cosmology of Aristotle, as defended energetically by conservatives within the Inquisition. The issues range from the nature of faith and the meaning of the Bible to the scientific principles and methods as advanced by Copernicus, Kepler, Tycho Brahe, Giordano Bruno, and Galileo. The course is organized as a role-playing game with each student adhering to individual game objectives with written and oral assignments specific to each role. 2 credits.

HIST-235 Europe Since World War II

This course examines the history of Europe and its relation to the world at large from the close of World War II to the current examining questions of the continent's future in the global community. Since 1945, Europe has struggled to redefine itself in the context of the war's problematic legacy, the cold war's competing ideologies, nationalist struggles of independence, discrepancies of affluence and poverty, and the difficulties of global market competition. It is a process that continues today as the continent moves slowly toward economic and political integration. 4 credits.

HIST-239 Latin America I: Conquest-Independence

Survey of Latin American history from 200 C.E. to 1810 C.E. with a focus on the pre-Columbian Mayan, Aztec, and Inca civilizations; the conquest and settlement of Mexico, Central America, and South America by the Spanish and Portuguese; and the colonial institutions in Spanish America and Brazil up to the beginnings of the movements toward independence. Special emphasis will be given to the clash of indigenous and European religious/spiritual outlooks, political economy, and the interaction of issues of race, class, and gender in the emergence of syncretic New World societies. Also listed as POLS 239. Counts toward core requirement: International Perspectives. 4 credits.

HIST-245 Race in Modern America

A history of African American politics, culture, and thought since the end of the Civil War. 4 credits.

HIST-246 American West: Hist Memory Pop Culture

A historical investigation into the reality, and remembered realities, that have gone into historical and cultural representation of the American conquest of the west and encounters with Native Americans, with an emphasis on 1870-1925. Students will be exposed to literary, anthropological, artistic, and cinematic representations of these matters as well as recent historical scholarship. Counts toward core requirement: Diverse Perspectives. 2 credits.

HIST-247 Gender & Sexuality in Victorian America

This course treats the development and spread of Victorian culture in the United States during the nineteenth century, particularly as it defined ideas about gender and sexuality. Focus is on the creation of "women's sphere" and ways in which women accommodated themselves to domesticity, rebelled against it, or used it themselves to discipline their husbands and sons. Also listed as GSS 247. Counts towards core requirement: Diverse Perspectives. 4 credits.

HIST-248 Public Health, Private Bodies

This course explores the changing relationship between institutional and societal efforts to maintain public health, contemporary knowledge about human bodies, disease, and "health," and the efforts by individuals and local communities to control their own health through the course of American history. Students will confront the efforts by the state and institutions to expand their power and deploy their knowledge in efforts to control unsanitary environments, the ways in which new forms of technology has transformed the healthiness of environments, as well as the ways in which that this knowledge of bodies and health was informed by historical understandings of poverty, of race, and of gender. Also listed as PH 248. 4 credits.

HIST-255 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

HIST-256 Leaders & Leadership

Provides an overview of leaders and leadership from ancient times to the modern era. We will assess how the historical context as well as notions of gender, race, sexuality, and class have shaped convictions about effective leadership. Reading texts from Herodotus, the Bible, Saint Augustine, Machiavelli, Sun Tzu, and theories put forth in contemporary leadership studies, we will analyze the use of rhetoric, political skills, emotional intelligence, passion, team work, decision-making, conflict resolution, and grit that has propelled leaders in the fields of politics, business, the military, social movements, and religion. We will investigate the characteristics deemed necessary in a leader, various leadership styles (situational, autocratic, facilitative, cross-cultural, servant, transformational), the tension between effectiveness and ethics, and the emerging fields of thought leaders and "influencers." Offered alternate years. 4 credits.

HIST-275 Internship

See department for details. Internship contract required. 1-4 credits.

HIST-295 Independent Study

See department for details. Independent study contract required.

HIST-301 The Medieval World: 400-1500

This class treats the medieval world from the development of medieval institutions in the first century AD through the mid-fifteenth century. The class stresses social/cultural issues, but also provides an understanding of political and constitutional developments of the period. The class is run as a seminar with some lecture. Class discussions are based on reading of primary texts. Prerequisite: Junior standing or above (60 or more completed credits). 4 credits.

HIST-305 The History of Magic & Witchcraft

This course deals with medieval and early European conceptions of and reactions to magic, sorcery, and witchcraft from pre-Christian Late Antiquity through the early modern period. The major themes of the course are (1) the development of ecclesiastical/intellectual notions of magic and heresy, (2) popular beliefs and practices regarding magic and witchcraft, (3) placing the great witch trials of the late medieval/early modern periods in an historical context of contemporary persecutions of various minorities, (4) explication of the "mature witchcraft theory" and the process of the witch trials. Prerequisite: Junior standing or above (60 or more completed credits). 4 credits.

HIST-306 The Roman Empire

This course is a history of the Roman Empire in Western Europe beginning with its origins in the eighth century BCE and ending with the ethnic, political, and social changes in the fifth century CE. In addition to dealing with classical Rome, the course covers the rise of Christianity in the first century and the immigration of the so-called barbarians beginning in the third century. The course focuses equally on (a) institutional, military, and political developments, and (b) social, intellectual and cultural traditions. Class time is devoted to lecture, films, discussion of readings, and student presentations. Prerequisite: Junior standing or above (60 or more completed credits) or HIST 101. 4 credits.

HIST-313 World War II in History & Memory

This course examines the changes in public memory of World War II in different countries in Asia, Europe, and North America from the immediate aftermath of the war to the present. It pays particular attention to the heightened interest in the war in recent decades and the intersections between memory and history played out in various media forms. Prerequisite: Junior standing or above (60 or more completed credits), HIST 232, or HIST 235. 4 credits.

HIST-318 The Business of Capitalism in East Asia

In the past sixty-odd years, Japan, South Korea, Hong Kong, Singapore, Taiwan, and, most recently, China, have all become leading economic powers in the world. How did this happen? Why did it happen? Is there such a thing as an "East Asian Business Model"? This course is a comparative history of how capitalism developed in East Asia, with a particular focus on the post-World War Two era. Topics will include the role of science and technology, the interwar economy, the so-called East Asian Model of development, the "Japanese miracle," the rise of "Market Socialism" in China, the Japanese "bubble economy," and the role of "traditional" Asian cultures and heritages. Prerequisites: Junior standing (60 or more completed credits). Counts toward core requirement: International Perspectives. 4 credits.

HIST-319 Rise and Fall of the Japanese Empire

This course examines imperialism in East Asia in the nineteenth and twentieth centuries. It explores colonial ideologies and structures of rule of Western imperialist powers compared to that of Japan. Major topics include Pan-Asianism, anti-colonial nationalism, wartime mobilization, life under colonial rule, and the postcolonial legacy of Japan's empire. Counts toward core requirement: International Perspective. 4 credits.

HIST-326 Public History: Theory & Practice

This course will introduce the work, craft and literature of historians whose careers are based in institutions outside of the academy and who specialize in presenting aspects of history, culture and heritage to a variety of audiences. The work of the course will focus on exploring historical interpretations,

preservation and education through lectures, reading, discussions and conversations with practitioners. Does not count toward core requirements prior to 2010 catalog. Prerequisite: Junior standing or above (60 or more completed credits). 4 credits.

HIST-333 History of the British Empire

This course examines the history of modern British Empire from the nineteenth century race for empire to the post-colonial world. Using the lens of the British Empire, the largest of all European empires, the course examines the political and economic impulses for imperialism, the nature of various imperial systems, the impact of imperialism on both the colonizer and the colonized, the turmoil of national independence and decolonization, and the lasting legacies of imperialism in the post-colonial world. Prerequisite: Junior standing or above (60 or more completed credits) or HIST 103 or HIST 104 with a minimum grade of C-. 4 credits.

HIST-335 The Era of the First World War

This course explores the historical period of the First World War in Europe. It focuses on the causes, course and effects of the war within a European perspective in terms of the political, social, cultural and intellectual contexts. It is designed to consider the impact of WWI on European society as the formative event of the 20th century Prerequisite: Junior standing or above (60 or more completed credits). 4 credits.

HIST-338 Era of the French Revolution

This course explores the historical period of the French Revolution from the Enlightenment through the defeat of Napoleon. It focuses on the causes, course and effects of the Revolution in terms of the political, social, cultural and intellectual contexts. It is designed to consider the impact of the French Revolution as the defining moment of the modern period. Prerequisite: Junior standing or above (60 or more completed credits). 4 credits.

HIST-341 American Revolution & Constitution

This course covers the ideological, social, economic, and political causes of the American break with the British Empire, the democratizing influence of the revolution on the new state government, and the relationship between this tendency and the construction of the Constitution. The course incorporates research regarding women, African-Americans, and common people into the broader movement. Prerequisite: Junior standing or above (60 or more completed credits) or HIST 141. 4 credits.

HIST-342 Civil War & Reconstruction

This course treats the Civil War and its aftermath in context of a broader Western move away from bonded servitude and reconstructions on human liberty toward free labor and democracy, and will measure successes and failures, particularly with regard to the legacy of racial division that the war was unable to eradicate. The course will cover the causes of sectional conflict, the military problems of the war, the political, social, and economic conditions within both North and South, and the cultural and political sources of support and opposition to Reconstruction. Prerequisite: Junior standing or above (60 or more completed credits); or HIST 141 or HIST 142. 4 credits.

HIST-343 Industrialization, Labor & St in America

This course covers the rise of modern industry in the United States beginning with the 1870s, the struggles of workers in response to these changes, and the steps taken government, both at the state and federal level, to regulate the new economy, beginning with the laissez faire governance of the late nineteenth century and concluding with the full elaboration of FDR's New Deal. The course focuses on social, economic, and political forces. Also listed as PSJ 343. Prerequisite: Junior standing or above (60 or more completed credits) or HIST 142. 4 credits.

HIST-355 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

HIST-361 The Reagan Era

This class traces the significant developments in US politics, economics, and culture from Franklin Roosevelt's "New Deal Coalition" to the Reagan presidency. 1980s culture and the neoconservative moral vision for foreign policy and domestic culture are the major focus. Prerequisite: Junior standing or above (60 or more completed credits) and HIST 142. 4 credits.

HIST-363 Cold War America

A research seminar on the key developments in American foreign policy and domestic life from the Yalta Summit to the Gulf of Tonkin resolution. Prerequisite: Junior standing or above (60 or more completed credits) or HIST 142. 4 credits.

HIST-369 Get Rich! Wealth in American History

An analysis of attitudes toward wealth from the Puritans to the present. The history of capitalism, labor, and poverty, and the role of gender and race in shaping views will also be addressed. Prerequisite: Junior standing or above (60 or more completed credits). 4 credits.

HIST-370 Crime, Corruption, & Scandal

Using newspapers, speeches, sensational public trials, fiction, film, and scholarship this class will trace shifting concerns about crime and corruption from the Salem Witch trials through Jackson's "Corrupt Bargain," Indian wars, the lawless "Wild West," as well as the Robber Barons of the Gilded Age. We will analyze how reform efforts from the Progressive era until today reflect convictions about human nature, gender, race, sexuality, class, and age. Primary topics include historical patterns of violence, the role and organization of the police, origins of the 2008 economic crash, and the National Security Agency's unchecked surveillance of private citizens. Prerequisites: Junior standing (60 or more completed credits). Counts toward core requirement: Diverse Perspectives. Offered alternate years. 4 credits.

HIST-391 Research Methods in History

This course is an introduction to research methods for students in history and the humanities. It examines the principles of research design, methodology, and the analytic and theoretical frameworks of interpretation used by historians. In conjunction, it will study how historical methodology and patterns of interpretation have changed over time. It introduces students to the fundamentals of primary and secondary research conducted both in libraries and archives. It is required of all History majors. Prerequisite: Junior standing or above (60 or more completed credits). Does not count toward core requirements. 4 credits.

HIST-395 Independent Study

See department for details. Independent study contract required.

HIST-400 Medieval Women

This course is a seminar on the attitudes towards, roles, work, and responsibilities of women in the period from the first century to the fifteenth century. Women in their roles as nuns, witches, prostitutes, brewers, mothers, queens, and consorts are discussed. The course is thematic rather than chronological, and investigates anthropological, feminist, and political theories and paradigms associated with the study of women generally. Assigned reading consists of primary sources, secondary monographs, and journals. Also listed as GSS 400. Prerequisite: Junior standing or above (60 or more completed credits). 4 credits.

HIST-401 The World of Charlemagne

This course is a seminar on the age of Charlemagne and the European empire he forged in the early Middle Ages. The course material starts in the early sixth century as the Roman West was mutating, and ends with the decline of the Carolingian Empire in the face of Viking attacks and fratricidal warfare. The class concentrates on political and social/cultural developments in this very important period which formed a bridge from the Classical world to the beginnings of the modern age. The class uses anthropological paradigms as one type of historical methodology. Assigned reading consists of primary sources, secondary monographs and journal articles. Prerequisite: Junior standing or above (60 or more completed credits). 4 credits.

HIST-413 History of Modern Drugs and Medicines

This interdisciplinary and interregional course explores drugs and medicines as commodities in the nineteenth and twentieth centuries. The first part of the course traces the commodity chain of well-known substances like opium, quinine, and cocaine -- from production to distribution to consumption -- in order to examine how drugs and medicines have influenced geopolitics, shaped social relations, and influenced peoples' habits across the globe. The second part of the course involves applying concepts and ideas learned from part one to specific case studies around the world. The overall goal is to have students think and write critically about the role of drugs and medicines in relation to the larger questions concerning capitalism, colonialism, and modernity. How do different societies determine the difference between a drug versus a medicine? 4 credits.

HIST-415 Pan-Pacific Histories

Reading seminar that examines transnational connections among Asia, Hawaii, and the United States. Major topics and themes include colonialism and resistance, global migration and diasporas, race relations, World War II, the Cold War, and globalization. Prerequisites: Junior standing (60 or more completed credits). Counts toward core requirement: International Perspectives. Offered alternate years. 4 credits.

HIST-435 1968: Youth and Social Change in World

This colloquium explores the historical scholarship surrounding the tumultuous events of 1968 in global perspective. It explores the events of 1968 as transnational phenomena with a particular emphasis placed upon the significant role played by youth in the various movements and uprisings worldwide. It will consider the emergence of youth as a social, political, and cultural force within the larger ferment of the late-sixties and early-seventies. Importantly, this is a rigorous readings course akin to a graduate colloquium. Prerequisite: Junior standing or above (60 or more completed credits). 4 credits.

HIST-439 World War II

This class is designed to help students understand the origins of totalitarianism, the causes, course, and consequences of World War II, Holocaust, the Cold War, and to analyze the morality of war. Through film, monographs, and on-line archives, students will assess the wide-ranging impact of war on the economy, gender, sexuality, race, and creation of the post-war world. Prerequisite: HIST 104, HIST 142, or HIST 232. Offered biennially. 4 credits.

HIST-441 Environmental History

This course focuses on historical scholarship that has addressed the changing relationship between human societies and "nature". The course explores the development of ecological science and environmental politics; it also explores the ways in which Americans of European and indigenous background imposed their understandings on the landscape, and the consequences of these impositions. Other subjects include National Park Service policy, game conservation and class conflict, and the development of governmental agencies dedicated to protecting or controlling the environment. Also listed as ENV 441. Prerequisite: Junior standing or above (60 or more completed credits). 4 credits.

HIST-455 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

HIST-465 Civil Rights Movement

An investigation of the origins, major goals, and strategies of the civil rights movement, beginning in the Jim Crow era. 4 credits.

HIST-475 Internship

See department for details. Internship contract required.

HIST-491 Independent Research I

This is student-conducted individual research leading to a senior thesis. It is required of all History majors. Prerequisite: Senior standing (90 or more completed credits) and declared History major. Offered Fall semester. 2 credits.

HIST-492 Independent Research II

This is student-conducted individual research leading to a senior thesis. It is required of all History majors. Prerequisite: HIST 491. Offered Spring semester. 2 credits.

HUMANITIES

David DeMoss

The Humanities are composed of the courses in Humanities, English, History, Media Arts and Communication, Philosophy, and World Languages and Literatures. While these departments have their own goals and specialized programs, they are united in a common endeavor to discover and make relevant the historical direction and essence of humans' cultural endeavors and to help students prepare for a life of quality and meaning. In this sense, the Humanities are at the heart of liberal arts education.

COURSES

HUM-100 Origins, Identity & Meaning

A required seminar for first-semester first-year students that introduces students to college academic life and the skills needed for success in that life. It is a humanities-based course in its content, intended to engage students in the task of personal and cultural critique, and designed to provide a common learning experience for the entire first-year class. Students will also experience the educational advantages of having a diversity of teaching methods and approaches both within and among various sections of the seminar; although cross-sectional themes, texts, and events may be adopted by current HUM 100 faculty, the course will be designed and taught in a manner thought most appropriate by the individual instructor. Fall semester. Does not meet Humanities core requirement. 4 credits.

HUM-195 Independent Study

See department for details. Independent study contract required.

HUM-200 Material Science for Makers

Through the lens of cultural values, this interdisciplinary course introduces students to relationships between art, craft, design, and science as applied to processes and materials used for the production of functional objects such as tools, tableware, and clothing. Throughout history, scientific and empirical approaches have been used outside of the laboratory by artisans and craftspeople to improve our food, tools, and shelters for the benefit of our health and well-being. In this course, students will use the scientific method in their work as they explore how science and culture inform and influence our choices and treatment of physical materials used to make the things we need. We will evaluate these choices for their utility and investigate the materials and processes of making using the scientific frameworks of physics and chemistry. We will also assess methods of production while considering issues of sustainability and environmental stewardship. Using Japanese culture as a unifying thread through lecture, reading, written reflection, and hands on making, students will explore attitudes towards consumption and the science behind the processes of making objects of use in indigenous, traditional, and industrial cultures. Through the course of the semester, students will complete a simple sheath knife, a raku tea bowl, and a shibori-dyed article of clothing. The course will be team taught by faculty from both the School of Natural Sciences and the School of Humanities. Corequisite: SCI 200. 2 credits.

HUM-204 Chinese Cultural Study

This course offers students a general introduction to Chinese culture as a chance to improve their knowledge and understanding of Chinese people. Culture is understood as shared ideas and meanings which a people use to interpret the world and on which to pattern their behaviors. This concept of culture includes an understanding of the history, the land, thought and religion, literature and art, music and dance, food and clothing, architecture and housing, family and gender, and holiday and leisure activities. In addition to meeting as a class to discuss and present readings on Chinese culture and customs, hands on activities such as cooking Chinese food, practicing martial arts and calligraphy, as well as field trips to the Chinese Garden in downtown Portland will be important parts of the course. Students will also conduct interviews with people from China to explore their lifestyles and ways of thinking. Taught in English. Counts toward core requirement: International Perspectives. 4 credits.

HUM-206 Latin America

A general introduction to the geography, peoples, and cultures of Latin America, and to their major social and political issues. Offered intermittently. 4 credits.

HUM-207 German Film in English

A general introduction to the film of people in the German-speaking countries, focusing on the time period from the early 20th century to the present. Special emphasis on the intersection of culture with historical, social, and political events. Offered intermittently. Counts toward core requirement: International Perspectives. 4 credits.

HUM-211 Preparation for Travel in India

This is a course that will prepare students for Travel in India: Gender, Culture and Service, a Winter III course sponsored by the Center for Gender Equity. This course will provide students with the information necessary to help them get the most of their WIII experience. The content will cover the basic history, religion, culture, geography, and politics of India. Also listed as GSS 211. Counts toward core requirement: International Perspectives. 2 credits.

HUM-213 Introduction to Japanese Literature

This class is a survey course and will provide an introduction to Japanese literature from the earliest period to the modern era (Meiji Period). We are going to read translations of poetry and of passages from myths, plays, and novels - all in chronological order. Through reading texts in various literary styles, we will not only become familiar with cultural, historical, and social issues discussed in Japan, but more importantly, gain a skill to express our thoughts, perspectives, and beliefs in Japanese literary forms such as myths, diaries, noh, linked-poetry, haikai (haiku) and I-Novel. Understanding the unique literary styles along with their philosophical or religious background will be certainly beneficial for us to expand our worldview, learn to accommodate difference, and acknowledge humanistic issues beyond national boundaries. Counts toward core requirement: International Perspectives. 4 credits.

HUM-215 Modernity in Japanese Narrative

This course will cover various thematic and stylistic expressions behind Japanese short stories and novels, and we will examine the meaning of modernity in the Japanese context. Special attention will be given to the establishment of modern Japanese literature, the rise of children's literature and the impact of Japanese animations. During the Edo Period between the 17th and the early 19th centuries, Japan experienced the first rise of modernity in which various entertainment/art forms became popular among middle-class people - kabuki, ukiyo-zousi, and haikai. The second phase of modernity started in the late 19th century, when after the contact with the West, new literary genres such as I-novel, haiku, douwa (children's literature) and animations were born as the result of unifying original and the Western literary and aesthetic traditions. By comparatively analyzing two phases of modernity in Japan, we will come to a further understanding of the role of popular literature in the construction of modernity. Counts toward core requirement: International Perspectives. 4 credits.

HUM-221 Ethics & Civic Engagement

An investigation of the role of civic engagement and ethical living. Students will work in groups on particular projects on campus or the surrounding community chosen in consultation with the professor, as well as read and write on civic engagement. Also listed as PSJ 221. Offered annually. 2 credits.

HUM-222 Introduction to East Asian Studies

Provides a multidisciplinary approach to the study of East Asia. Through an examination of fiction, film, memoirs, historical documents, and scholarly writings, we will examine East Asia's place in the modern world. We will begin with an examination of the shared cultural and philosophical foundations—i.e. Confucianism, Buddhism, and Daoism—that make East Asia a coherent region. We will focus on the eighteenth through twenty-first centuries, and particularly how various forms of media shed light on East Asian modernity. Also listed as IS 222. Counts toward core requirement: International Perspectives. 4 credits.

HUM-255 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

HUM-260 U.S. Latinas/os & Pop Culture

Introduces students to the varied historical, cultural and political experiences and expressions of Latinas/os in the United States through the study of diverse cultural texts. In particular, this course examines the diverse ways in which Latinas/os articulate their identities in music, film, television, literature and performance. The class explores the histories and experiences of non-migrant Latino populations in the U.S. as well as the roots of Latina/o immigrations to the U.S. by examining texts such as formal letters in the colonial period, songs and legends from the annexation period of northern Mexico to the U.S. to film, music and performances in the twentieth and twentieth first centuries. Students learn to engage critically with forms of popular culture, viewing these texts as both part of "the practice of everyday life" and as sites for the construction and negotiation of identities and national discourses. Counts towards core requirement: Diverse Perspectives. 4 credits.

HUM-275 Internship

See department for details. Internship contract required. 1-4 credits.

HUM-295 Independent Study

See department for details. Independent study contract required. 1-18 credits.

HUM-300 Mentoring in the Humanities

Each student serves as a mentor in one section of HUM 100, the required First-Year Seminar course. Mentors attend all HUM 100 classes and co-curricular events and complete all of the readings. They do not take exams, write papers, or participate in the evaluation of students in HUM 100. The mentor is to act as a peer in helping first-year students make the transition from high school to college. They hold study sessions and help with note taking, writing assignments, and the development of proper study skills. They work closely with faculty in developing the means to good mentoring in their section of HUM 100. They meet with the First-Year Seminar Coordinator one hour each week to review their work and to discuss pedagogical issues associated with teaching the humanities. Mentors are selected by an application process in the spring. Instructor's consent required. Does not meet Humanities core requirement. Offered Fall semester. Pass/No Pass. 4 credits.

HUM-306 Latino Fiction

A study of the fiction of Latino writers representing the diverse Hispanic cultures of the U.S. with emphasis on the themes of immigration, culture adaptation, and the unique characteristics of the author's Hispanic heritage. Offered intermittently. 4 credits.

HUM-310 Travel in India: Gender Society Service

Travel in India: Gender, Culture and Service is a Winter term course sponsored by the Center for Gender Equity. It consists of two and a half weeks travel in southern India during the month of January. The bulk of the course is conducted at Lady Doak College, a small liberal arts women's college in Madurai, India in Tamilnadu. The course consists of lecture and discussion by Lady Doak faculty, service learning, discussion with local service agencies, fieldwork on a topic of the student's choice, and travel to sites of cultural and historic importance. The participant is required to register for HUM 211 the fall semester prior to the travel portion of the class. Also listed as GSS 310. Prerequisite: HUM 211. Counts toward core requirement: Civic Engagement and/or International Perspectives. 2 credits.

HUM-311 Globals Skills I: Prepare

In our globalized world, the ability to engage with cultural difference is a valuable skill. This course is designed to develop your intercultural communication skills and broaden your worldview for a smoother adaption to study abroad or other cross-cultural contexts. You'll get the most out of your cross-cultural experience and learn to communicate in diverse social and cultural settings. "Global Skills I" is part of a 3-course program to maximize your learning experience; see IS/HUM 312 and IS/HUM 313. Also listed as IS 311. Counts toward core requirements: International Perspective and Diverse Perspectives. 2 credits.

HUM-312 Global Skills II: Engage

This is an online course to support Pacific students studying abroad or participating in a semester-long cross-cultural experience, and it is open to international students studying at Pacific. Through online discussions, experiential assignments and written reflection, you will engage in processing your intercultural experiences while they are happening. As a result, you will adapt more effectively and deeply with your host culture. Global Skills 2 is part of a 3-course program to develop intercultural competence. Prerequisite: IS 311 or HUM 311 (exception for international students at Pacific University). Corequisite: Pacific University Study Abroad Program. Counts toward core requirements: International Perspectives and Diverse Perspectives. 1 credit.

HUM-313 Global Skills III: Leverage

In this course, you will learn how to articulate your intercultural experience as an advantage on resumes and during job interviews. Additionally, the course is designed to help you retain your intercultural communication skills, which typically fade after re-entry. The course will support you through your "reverse culture shock" and help you to transition from study-abroad or cross-cultural programs. GS 3 students may help mentor GS 1 students. Global Skills 3 is part of a 3-course program to develop intercultural competence. See descriptions for IS/HUM 311 & 312. Prerequisites: IS 311 or HUM 311 AND IS 312 or HUM 312. Counts towards core requirements: International Perspectives and Diverse Perspectives. 1 credit.

HUM-325 Hispanics in the United States

A study of the history, literature, culture, and demographics of Hispanic groups in the U.S. An interdisciplinary approach will be taken toward placing in perspective the major political, social, and educational issues facing these groups. Students will simultaneously be engaged in a field internship in the Hispanic community. Prerequisite: SPAN 102. 4 credits.

HUM-339 History of Science

A study of the development of science as doctrine, process and social institution, from early Greek science to the present. Emphasis is on western science, including Arab and Islamic contributions. It examines the impact of culture on science and science on culture. Prerequisite: Sophomore standing or above (30 or more completed credits). 4 credits.

HUM-351 Traditional Theater of East Asia

This course introduces students to traditional theater of China, Korea, and Japan. Students learn historical backgrounds of the six main theatrical art forms, examine literary and aesthetic theories, and understand the establishment and the distinctiveness of cultural identities within East Asia. In addition to learning about traditional theatrical performances, students will read innovative, contemporary plays inspired by traditional theater of East Asia. The goal is to understand the essential aspects of traditional theater that could be accessible and appreciated beyond language and culture. Prerequisite: Sophomore standing or above (30 or more completed credits). 4 credits.

HUM-355 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

HUM-360 Advanced Topics: U.S. Latina/o Studies

This course offers advanced study on topics related to the varied historical, cultural and political experiences and expressions of Latinas/os in the United States. The class examines the histories and experiences of non-migrant Latino populations in the U.S. as well as Latin American immigrants, and how these histories and experiences are constructed in diverse cultural texts. Students learn to engage critically with various cultural texts, viewing them as sites for the construction and negotiation of identities and national discourses. Prerequisite: HUM 260 or Sophomore Standing (30 or more completed credits). Counts toward core requirement: Diverse Perspectives. 4 credits.

HUM-395 Independent Study

See department for details. Independent study contract required.

HUM-455 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

HUM-475 Internship

See department for details. Internship contract required.

HUM-495 Research

See department for details. Independent study contract required.

INTERDISCIPLINARY STUDIES

The Self-Designed Interdisciplinary Major (SDIM) is an opportunity for highly capable students to pursue unusual intellectual paths. Students participating in the SDIM must have exceptional self-discipline and self-direction. A minimum GPA of 3.0 is required to apply to the SDI Major and a minimum GPA of 3.2 in the SDI Major is required to graduate. Proposed SDIMs must clearly define a field of study that falls within the liberal arts and sciences.

Note: The SDIM will not be approved as a substitute for extant disciplinary major or minor programs of study available within the College of Arts and Sciences. Nor will an SDIM be approved for strictly vocational education or strictly preparatory programs such as pre-optometry or pre-pharmacy.

Students may pursue a single Self-Designed Interdisciplinary Major. Students may not be awarded a minor for a subset of courses within their approved SDI Major. Students should complete the SDIM approval process during the sophomore year.

Students completing the SDIM must meet all other graduation requirements within the College of Arts and Sciences. The SDIM replaces the major requirement only.

Students interested in pursuing a Self-Designed Interdisciplinary Major should contact the Director of Academic Advising at 503-352-2201 for information on requirements and the application process.

COURSES

ID-155 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

ID-355 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

ID-491 Senior Capstone I

The focus of this course is to assist students in selecting an area of interest in order to define their senior project, to complete a literature review, to develop a research methodology, and/or to begin data collection. This course is required of all SDIM majors in their final year. Prerequisite: Senior standing (90 or more completed credits) and declared SDI major. 2 credits.

ID-492 Senior Capstone II

In this course, students further refine and develop their senior project. Students complete their senior project and prepare for the public presentation of their project for Senior Project's Day. Prerequisite: ID 491 with minimum grade C-. 2 credits.

INTERNATIONAL PROGRAMS

Stephen J. Prag, Director

The Office of International Programs provides services to international students and scholars and to students participating in study-abroad programs. International Programs provides immigration and cross-cultural services to Pacific University's community of international students, scholars and faculty. International Programs also coordinates and administers semester and year-long study-abroad programs (see Study Abroad section), working with faculty to ensure academic integrity.

International Programs staff are active members of NAFSA: Association of International Educators, as well as other international education professional organizations, and represent Pacific University locally, regionally and nationally in professional conferences, workshops, meetings and other symposia.

International Student and Scholar Advising

International Programs staff are knowledgeable in the areas of F & J visa regulations and provide assistance to international students and scholars in complying with the complex and ever-changing immigration regulations. International Programs also provides services designed specifically to assist students with adjusting to the challenges of a new academic and cultural environment. These services include the provision of pre-departure information, airport pick-up, accommodation assistance, an orientation program and social programming.

Study Abroad

In accordance with the University's mission statement and goals, Pacific University study abroad programs provide students with a unique opportunity to develop skills and knowledge that will prepare them for the diverse community, nation, and world. Pacific University considers international study important and encourages all students to gain exposure to other cultures, languages, and ways of life.

Study abroad is required for all majors in the department of World Languages and Literatures and for a major in International Studies, but is open to all students who meet the selection criteria. Pacific University students who participate in a study abroad program can earn a maximum of 31 credits that will count toward their graduation. However, students should consult with their faculty advisor(s) to determine which courses taken abroad can and cannot be used toward their majors or to satisfy other specific University requirements.

Pacific University reserves the right to cancel programs or to make changes in affiliation at any time for reasons of safety, finances, or administrative concerns. For detailed descriptions of programs, please refer to the Study Abroad section of the catalog or consult the International Programs office.

More information is available on page [233](#).

English Language Institute

English Language Institute Transition Program

Pacific's English Language Institute (ELI) offers an intensive year-round language study program for students learning English. ELI students live with American roommates in the residence halls or in homestays with local families. Qualifying students may combine ESL and undergraduate classes to earn credit toward an undergraduate degree through the English Language Institute Transition Program. The ELI also offers regular opportunities for students to take the institutional TOEFL.

More information is available on page [134](#).

INTERNATIONAL STUDIES

Jann Purdy, Chair; Nancy Christoph, Jeanne-Sarah De Larquier, Lorely French, Aaron Greer, Deke Gundersen, Richard Jobs, Yasutaka Maruki, Martha Rampton, Victor Rodriguez, Philip Ruder, Jeff Seward, Mike Miller

Students majoring in International Studies build the knowledge and skills needed to understand and work effectively in a global society. In addition to examining theories and practices of international relations and affairs, students engage in multi-disciplinary study in order to appreciate the politics, history, economy, language, and culture of a particular region of the world.

The International Studies Major consists of three parts: a set of core courses, an international experience, and a second multi-disciplinary set of courses to support the student's chosen international experience.

International Studies majors are required to study outside of the United States. The semester prior to their study abroad, students enroll in Global Skills 1, the preparation course. Before departing abroad, students should notify the Registrar that they will enroll in Global Skills 2, the online course that they will complete during their semester abroad. Upon their return from study abroad, students enroll in Global Skills 3, the re-entry course. Courses taken while studying abroad may be accepted as elective courses in the major with approval of the International Studies Chair.

Students unable to leave the United States for study abroad are encouraged to consider a minor in International Studies. The minor does not require international travel.

The goals and formal requirements for the major in each of the four areas of emphasis are listed below. Please note that these requirements are slightly different from those for students who complete a major in American Studies.

Program Learning Outcomes

Students completing Pacific University's International Studies major will:

- Demonstrate basic competency in a second language as well as competency in intercultural communication
- Have broad exposure to a chosen region of the world through multiple disciplines and perspectives
- Demonstrate broad knowledge of global issues, policies, processes and trends
- Demonstrate critical thinking and insight in issues of international policies, processes and trends
- Be able to clearly articulate, consider and argue issues requiring diverse frames of reference and cultural ambiguity
- Demonstrate writing and presentation skills needed to convey complex global issues with clarity and understanding

International Studies: Requirements for the Major

A minimum of 16 (sixteen) credits of the major must be upper-level.

Core Courses

IS 220	Introduction to International Studies	4 credits
IS 201	Intercultural Communication	4 credits
ECON 102	Economics of Governments and Markets	4 credits
POLS 345	International Political Economy	
OR		
POLS 340	Security, Rights and Globalization	4 credits
IS 401	Senior Seminar	4 credits
IS 402	Senior Seminar and Thesis	2 credits

Core Courses require a grade of C- or higher

Language Proficiency

		0-8 credits*
CHIN 202	Intermediate Chinese	
FREN 202	Intermediate French	
GER 202 I	Intermediate German	
JAPN 201 & 202	Intermediate Japanese	
SPAN 202	Intermediate Spanish	
SPAN 211	Spanish for Heritage Speakers	

*Students proficient in a second language beyond the 202 level may waive these credits/courses. Approval of the Chair of the World Languages Department is required for a waiver.

Note: Students should plan to complete their 202 language course prior to study abroad.

International Experience

IS/HUM 311	Global Skills 1 - Prepare	2 credits
IS/HUM 312	Global Skills 2 - Engage	1 credit
IS/HUM 313	Global Skills 3 – Leverage	1 credit

Study Abroad for one semester*

*Students unable to study abroad during a regular semester may request to substitute a summer international experience of at least 8 credits for the study abroad requirement. The summer international experience must be approved by the Chair of International Studies.

Electives

4 credits

Take four credits from the following:

ANTH/REL140	Intro to Comparative Religion
BA 312	International Business
BA/ECON 452	Global Finance
ECON 329	International Economics
ECON 328	Macroeconomics Govt/Central Banking
ECON 341	International Trade and Development
MUS/ANTH 241	Intro to World Music
PH 325	Global Public Health
POLS 180	The U.S. in World Affairs
POLS 330	National Systems and Global Citizenship
POLS 331	Modern Dictatorship

Geographic Area of Study

8 credits

Take at least 8 credits from one group:

Europe

FREN 308/408	France Today
FREN 304/404	French and Francophone Theater
FREN 320/420	Women's Writing in the Francophone World
FREN 309/409	French Popular Culture
GER 301	Topics in German Culture
GER 305	Music, Modernism & Megalomania
GER 306	From Ruins to Reunification
GER 485	Seminar in German Studies
HIST 208	England from Rome to Revolution
HIST 232	The Holocaust
HIST 235	Europe Since World War II
HIST 301	The Medieval World
HIST 333	History of the British Empire
HIST 338	The Era of the French Revolution
HIST 401	The World of Charlemagne
HUM 207	German Film in English

Asia

ARTHI 276	Art & Architecture of Asia
HIST 215	Imperialism in East Asia
HIST 216	History of Modern Japan
HIST 217	Making of Modern China
HIST 318	The Business of Capitalism in East Asia
HIST 415	Pan-Pacific Histories
HUM 204	Chinese Cultural Study
HUM 213	Introduction to Japanese Literature
HUM 215	Modernity in Japanese Narrative
IS/HUM 222	Introduction to Asian Studies
PHIL 305	Asian Philosophy
THEA/HUM 351	Traditional Theatre of East Asia

Latin America

ANTH/REL 240	Topics in Comparative Religion
HUM 306	Latino Fiction
ENGL 227	World Literature: Magical Realism
ENGL 324	Post-Colonial Literature: Tales of Conquest Retold
POLS/HIST 239	Latin American I
POLS/HIST 241	Latin American II
SPAN 325	Mexican-American Cultural Exploration

Total Credits in major: 38-46 credits**International Studies: Requirements for the Minor**

IS 220	Introduction to International Studies	4 credits
IS 201	Intercultural Communication	4 credits
POLS 345	International Political Economy	4 credits
OR		
POLS 340	Security, Rights and Globalization	4 credits

Two additional courses (8 credits, at least 4 credits at the 300 level or above) selected to support the student's geographic area of study as listed above.

Total Credits in minor: 20**COURSES****IS-155 Special Topics**Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.**IS-201 Intercultural Communication**

This course develops awareness and skills for effective communication among people of different cultures. It explores problems related to value differences and examines perceptual relativity, cultural self-awareness, verbal and nonverbal behavior, value analysis, and communication strategies. For both United States and International students. Counts toward core requirement: International Perspectives. 4 credits.

IS-220 Introduction to International Studies

This course is designed to familiarize students with some of the many interpretive and methodological approaches used by scholars in the growing field of International Studies. The course uses an interdisciplinary approach to understand the global flow of people and commodities as well as some key events and institutions that shape contemporary power relations. Also listed as ANTH 220. 4 credits.

IS-222 Introduction to East Asian Studies

Provides a multidisciplinary approach to the study of East Asia. Through an examination of fiction, film, memoirs, historical documents, and scholarly writings, we will examine East Asia's place in the modern world. We will begin with an examination of the shared cultural and philosophical foundations- i.e. Confucianism, Buddhism, and Daoism-that make East Asia a coherent region. We will focus on the eighteenth through twenty-first centuries, and particularly how various forms of media shed light on East Asian modernity. Also listed as HUM 222. Counts toward core requirement: International Perspectives. 4 credits.

IS-255 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

IS-275 Internship

See department for details. Internship contract required. 1-4 credits.

IS-311 Globals Skills I: Prepare

In our globalized world, the ability to engage with cultural difference is a valuable skill. This course is designed to develop your intercultural communication skills and broaden your worldview for a smoother adaption to study abroad or other cross-cultural contexts. You'll get the most out of your cross-cultural experience and learn to communicate in diverse social and cultural settings. "Global Skills I" is part of a 3-course program to maximize your learning experience; see IS/HUM 312 and IS/HUM 313. Also listed as HUM 311. Counts toward core requirements: International Perspective and Diverse Perspectives. 2 credits.

IS-312 Global Skills II: Engage

This is an online course to support Pacific students studying abroad or participating in a semester-long cross-cultural experience, and it is open to international students studying at Pacific. Through online discussions, experiential assignments and written reflection, you will engage in processing your intercultural experiences while they are happening. As a result, you will adapt more effectively and deeply with your host culture. Global Skills 2 is part of a 3-course program to develop intercultural competence. Prerequisite: IS 311 or HUM 311 (exception for international students at Pacific University). Corequisite: Pacific University Study Abroad Program. Counts toward core requirements: International Perspectives and Diverse Perspectives. 1 credit.

IS-313 Global Skills III: Leverage

In this course, you will learn how to articulate your intercultural experience as an advantage on resumes and during job interviews. Additionally, the course is designed to help you retain your intercultural communication skills, which typically fade after re-entry. The course will support you through your "reverse culture shock" and help you to transition from study-abroad or cross-cultural programs. GS 3 students may help mentor GS 1 students. Global Skills 3 is part of a 3-course program to develop intercultural competence. See descriptions for IS/HUM 311 & 312. Prerequisites: IS 311 or HUM 311 AND IS 312 or HUM 312. Counts towards core requirements: International Perspectives and Diverse Perspectives. 1 credit.

IS-318 The Business of Capitalism in East Asia

In the past sixty-odd years, Japan, South Korea, Hong Kong, Singapore, Taiwan, and, most recently, China, have all become leading economic powers in the world. How did this happen? Why did it happen? Is there such a thing as an "East Asian Business Model"? This course is a comparative history of how capitalism developed in East Asia, with a particular focus on the post-World War Two era. Topics will include the role of science and technology, the interwar economy, the so-called East Asian Model of development, the "Japanese miracle," the rise of "Market Socialism" in China, the Japanese "bubble economy," and the role of "traditional" Asian cultures and heritages. Prerequisites: Junior standing (60 or more completed credits). Counts toward core requirement: International Perspectives. 4 credits.

IS-355 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

IS-395 Independent Study

See department for details. Independent study contract required.

IS-401 Senior Seminar

This course is designed to demonstrate your accumulated knowledge and skills in International Studies in a single original project of your choice, subject to the instructor's approval. The completed thesis will bring together your geographic area of interest, your international study, your language study as well as an issue of your choosing. The senior seminar will include instruction in sources, materials and methods of research, writing, and critical analysis. Prerequisite: Senior standing (90 or more completed credits) and declared International Studies major. 2 credits.

IS-402 Senior Seminar and Thesis

A continuation of IS 401. Sources, materials, and methods of research, writing, and critical analysis. Preparation and defense of major research project. Prerequisite: IS 401. 2 credits.

IS-450 Special Topics in International Studies

This seminar course is an elective which focuses on topics of special interest to students and International Studies faculty. The course allows students to explore possible topics for their thesis and the methods for approaching those topics. Students may take the course concurrently with IS 401. Prerequisite: Senior standing (90 or more completed credits) and study abroad. May be repeated for credit. 4 credits.

IS-455 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

IS-475 Internship

See department for details. Internship contract required.

IS-495 Independent Research

Designed to assist students who are embarked upon Senior Thesis work. These are student-conducted individual research projects. Senior Standing in IS. Independent study contract required.

LATINA/O STUDIES

Alyson Burns-Glover, Nancy Christoph, Daniel Eisen, Dawn Salgado, Jeff Seward, Mariana Valenzuela

A minor in U.S. Latina/o Studies allows students to acquire knowledge about Latina/o populations in the United States from an interdisciplinary perspective. U.S. Latina/o Studies is an emerging interdisciplinary field of study that examines the experiences of Latinas/os in the U.S. from a variety of perspectives, such as the historical, anthropological, political, linguistic, cultural, artistic and literary among many others. Scholarship in Latina/o Studies varies and often encompasses studies on immigration, citizenship, race, social disparities, gender, and sexuality. The category of Latinas/os in the United States encompasses recent immigrants, peoples who trace their ancestry to Spanish colonies in what is now the U.S., peoples with roots in what was formerly Mexican territory, and peoples whose families come from Latin America.

Program Learning Outcomes

Students who complete a minor in U.S. Latina/o Studies will:

1. Develop knowledge of the histories of Latinas/os in the United States in relation to broader U.S. histories
2. Comprehend the complex social, political, economic relationships between the U.S. and Latin America.
3. Understand how Latin American immigration to the U.S. relates to socio-political and economic relationships between the U.S. and Latin America.
4. Become familiar with U.S. Latina/o cultural expressions and the contributions Latinas/os have made to the U.S. cultural landscape.
5. Develop an understanding of Latina/o political activism and participation in the U.S.
6. Recognize the importance of categories of difference, i.e. race, gender, ethnicity, nationality and sexuality in shaping Latina/o experiences in the U.S.
7. Identify a number of contemporary social theories as they inform U.S. Latina/o Studies.

Latina/o Studies: Requirements for the Minor

Language Competency

Minors must demonstrate competence in the Spanish language at the SPAN 202 level. This may be demonstrated either by successfully passing SPAN 202 or SPAN 211, placing into a 300-level Spanish class or above, or otherwise demonstrating this level of competence to the satisfaction of the Chair of the World Languages program.

12 credits from the following:¹

HUM 260	U.S. Latinas/os & Pop Culture	4 credits
HUM 306	Latino Fiction	4 credits
HUM 360	Topics in U.S. Latina/o Studies	4 credits
SPAN 325	Mexican-American Cultural Exploration	4 credits

8 credits from the following:

PSY 310	Community Psychology	4 credits
PSY 358	Psychology of Ethnic Diversity	4 credits
HIST/POLS 239	Latin America I: Conquest - Independence	4 credits
HIST/POLS 241	Latin- America II: Independence - Present	4 credits
SOC 208	Race: Inequality and Identity	4 credits
SOC 360	Critical Race Theory	4 credits
Other upper-division courses related to U.S. Latina/o experience, as approved by Chair of Spanish Program or Director of U.S. Latina/o Studies minor. Includes Capstones.		4 credits

TOTAL: 20 credits

¹ Travel course to U.S.-Mexico Border and/or similar course work taken while studying abroad in Latin America could count towards minor.

² PSY 310 may count towards minor only when service-learning component is related to U.S. Latinas/os. Must be approved by Spanish Program or Director of U.S. Latina/o Studies minor in consultation with course instructor for inclusion in minor.

³ PSY 358 may count towards minor only when final research project is focused on U.S. Latinas/os. Must be approved by Spanish Program in consultation with course instructor for inclusion in minor.

MATHEMATICS

Ian Besse, Chair; Michael Boardman, William Breslin, Christine Guenther, Chris Lane, Michael Larkin, Nancy Ann Neudauer

Mathematics is universal, beautiful, and practical.

The mathematics faculty at Pacific University is dedicated to creating a welcoming environment in which every student can develop and apply analytical skills, computational fluency, and mathematical knowledge in diverse contexts. We strive to help our students appreciate mathematics as a creative endeavor and engage in the world as productive, critical-thinking citizens.

The Mathematics major provides students a strong mathematics foundation with emphases in several key areas including analysis, abstract algebra and applied mathematics. Students completing this major typically pursue careers in applied mathematics, enter graduate programs in mathematics and other fields, and complete certification requirements to teach mathematics in K-12 (see the Education section of this catalog for more details).

The department maintains common goals for all of its students (majors, minors and others). Students in our courses will learn strategies for abstract problem solving, gain a basic understanding of computers and the broad implications of their use, be exposed to mathematics as a liberal art, and be given the opportunity to hone their computational skills.

Students with a program of study in Mathematics learn abstract mathematical constructs and paradigms. They develop logical thinking and communication skills through argumentation and proof. Students study methods of mathematical modeling, and develop confidence and competence in developing models and carrying out algorithms. Students learn to read and speak the language of mathematics. Graduates of our program have gone on to engage in a wide variety of post-graduate activities, including work in mathematics and science-related fields or graduate study in mathematics or education

Program Learning Outcomes

The Pacific University Mathematics Program introduces students to mathematics as a unique mode of inquiry, a rigorous and highly creative endeavor, characterized by powerful utility as well as profound beauty. To this end, our goals are to promote, at all levels of our curriculum:

- Computational and quantitative fluency
 - Students will master mathematical notation and computational tasks at levels commensurate with their academic major and professional goals.
 - Students will interpret and express graphical and algebraic representations of quantitative information, and will be able to translate between these representations.
 - Students will display algorithmic literacy in their construction, execution, and analysis, of problem-solving and calculation routines.
- Logical reasoning and critical thought
 - Students will appreciate the precision required in formulating definitions, mathematical statements, and logical implications within an axiomatic system.
 - Students will adhere to this precision and rigorous logical reasoning in their own constructions and critiques of formal mathematical proofs.
- Abstraction and generalization
 - Students will import the mathematical techniques used in particular example problems into the context of more general problems.
 - Students will recognize how abstract study of a mathematical object's properties allows one to situate that object, and related mathematical theory, in more general settings.
- Applications of mathematics
 - Students will explore the utility of mathematics as a powerful computational tool in the natural and social sciences.
 - Students will translate problems from across disciplines into mathematical models, allowing for the leveraging of sophisticated mathematical theory that often lends new insight into these problems, and as a lens through which one gains novel perspectives on a variety of practical problems.
- Communication
 - Students will appreciate and demonstrate the uniquely mathematical style of communication whose hallmarks are clarity, concision, and rigorous logic.
 - Students will effectively communicate complex mathematical ideas and carefully reasoned arguments both orally and in writing to a range of audiences.
- Mathematics as a liberal art
 - Students will recognize the important philosophical, cultural, and historical contributions of mathematical ideas.
 - Students will appreciate mathematics for its own sake, reveling in the beauty and philosophical recreations that its study affords.
- Career Development
 - Teach mathematics majors and minors the knowledge that will enable them to pursue challenging careers in academia, industry, government, business, and education.
 - Provide students with the mathematical foundation required for graduate work in mathematics, statistics, medicine, law, engineering, and natural and social sciences.
 - Prepare undergraduates across the college for success in their chosen careers through the development of logical and critical-thinking skills.

Mathematics: Requirements for the Major

Core requirements:

<u>Calculus</u>		12 credits
Math 226	Calculus I	
Math 227	Calculus II	
Math 228	Calculus III	
<u>Intermediate Courses</u>		12 credits
Math 240	Discrete Mathematics	

Math 306	Linear Algebra	
Math 326	Introduction to Analysis	
<u>Support</u>		8 credits
CS 150	Introduction to Computer Science I	
Four credits from:		
ECON 102	Economics of Markets & Governments	
CHEM 220	General Chemistry I	
PHY 232	General Physics I	
CS 310	Theoretical Computer Science	
<u>Advanced Topics</u>		12 credits
Additional Math at the 300 or 400 level, at least 4 of which must be at the 400 level		
<u>Capstone</u>		2 credits
Math 490	Senior Capstone	
Math 492	Senior Capstone II	
Total		46 credits

Restriction: At most one course passed with a grade below "C-" can count toward the mathematics major.

Optional Specializations

These specializations are optional and not required to receive a major in mathematics. Courses can be used to satisfy both requirements for the mathematics major and an optional specialization.

Students whose career goal is in financial mathematics or the actuarial field should complete the Actuarial Science specialization. Students who will be attending graduate school in mathematics should complete the Advanced Mathematics specialization. Students interested in a career in mathematical biology should complete the Biomathematics specialization. And, students who intend to become high school teachers should complete the Secondary Mathematics Education specialization.

Students completing a specialization are well served by using some of the courses in the specialization to satisfy requirements for the core major.

Actuarial Science

MATH 316	Mathematical Statistics
ECON 101	Economics of Social Issues
ECON 102	Economics of Markets and Governments
BA 201	Accounting Principles
BA 305	Business Finance

One of the following:

BA 306	Business Law
BA 345	Corporate Finance
BA 445	Financial Modeling and valuation
ECON 321	Econometrics

Advanced Mathematics

MATH 311	Ordinary Differential Equations
MATH 402	Abstract Algebra
MATH 405	Real Analysis

Two more courses from among:

MATH 316	Mathematical Statistics
MATH 321	Higher Geometry
MATH 400	Number Theory
MATH 410	Discrete Topics
MATH 411	Partial Differential Equations
MATH 412	Complex Analysis

Biomathematics

MATH 301 Mathematical Modeling

MATH 207 and MATH 316 General Elementary Statistics and Mathematical Statistics

OR

MATH 316 and MATH 410 Mathematical Statistics and Discrete Topics

OR

MATH 311 and MATH 411 Ordinary Differential Equations and Partial Differential Equations

One of the following:

BOIL 200 and BIOL 200L	Flow of Energy and lab
BOIL 201 and BIOL 201L	Flow of Biological Information

Eight additional credits of BIOL at the 200 level or above with advisor approval

Secondary Mathematics Education

MATH 207 General Elementary Statistics

MATH 311 Ordinary Differential Equations

MATH 316 Mathematical Statistics

MATH 321 Higher Geometry

Restriction: At most one course passed with a grade below "C-" can count toward a specialization

Mathematics: Requirements for the Minor

Core Mathematics: 12 credits

MATH 226 & 227

MATH 240

Calculus I & II

Discrete Mathematics

8 credits

4 credits

Electives: 12 credits

8 additional credits of Mathematics numbered 300 or higher.

4 additional credits selected from among CS 150, and Mathematics courses numbered 200 or higher, excluding MATH 221 and MATH 223.

TOTAL: 24 credits

Restriction: At most one course passed with a grade below "C-" can count towards the mathematics minor.

COURSES

MATH-122 College Algebra

Offers students the opportunity to polish their general algebra skills in preparation for precalculus, statistics and other courses where a working knowledge of algebra without trigonometry is a prerequisite. Throughout the course, students are asked to translate information back and forth between grammatical and mathematical forms. Topics include modeling, graphing, and analysis with linear, quadratic and general polynomial expressions, solving linear, quadratic and general polynomial equations and inequalities and functions. 4 credits.

MATH-125 Precalculus

Most science and mathematics courses require that students be comfortable working with functions symbolically, graphically, and numerically. Precalculus offers students the background they need to pursue these courses. An integral component of the course is translating information back and forth between grammatical and mathematical forms. Concentrating on functions and their properties, the course includes the study of several classes of functions including polynomial, rational, exponential, logarithmic, and trigonometric functions. The conic sections are also studied. Prerequisite: MATH 122 with a minimum grade of C or placement. 4 credits.

MATH-155 Special Topics in Mathematics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

MATH-165 Modern Topics in Mathematics

This course exposes students to abstraction and problem solving with mathematical constructs. Elements of descriptive and inferential statistics give students the foundation to understand visual and numerical representations of data and to make informed judgments about survey and experimental study results. Various topics chosen from among management science, finance, voting theory, game theory, symmetry, proportionality, or other modern topics offer the opportunity to see connections of mathematics to business, political science, art and other fields. 4 credits.

MATH-195 Independent Study

See department for details. Independent study contract required.

MATH-207 General Elementary Statistics

This course covers the basic theory and practice of descriptive and inferential statistics including the presentation and structure of data sets, histograms, correlation, and regression analysis. Sampling distributions, binomial, normal, and chi-square probability distributions, confidence intervals, estimation, and hypothesis testing including t-tests and analysis of variance will also be discussed. Includes an introduction to a statistical software package. Prerequisite: MATH 122 with a minimum grade of C or placement. 4 credits.

MATH-212 Language and Logic

A survey of formal syntactic and semantic features of language, including topics such as sentential logic, predicate logic, axiomatic systems and set theory, and nonclassical extensions such as multivalued logics. Also listed as PHIL 212. Offered annually. 4 credits.

MATH-221 Mathematics for Elementary Teachers I

Designed for future elementary teachers. Elements of logic, numeration, the number systems of arithmetic, elementary number theory, the algorithms of arithmetic, introductory concepts of statistics and probability. Alternate years 2014-2015. 4 credits.

MATH-223 Mathematics for Elementary Teachers II

Designed for future elementary teachers. Intuitive geometry in two and three dimensions, systems of measurement, estimation and approximation. Alternate years 2015-2016. 4 credits.

MATH-226 Calculus I

The study of functions and their rates of change. Topics include the concept of derivative as rate of change, limits and continuity, differentiation and its applications, Intermediate, Extreme and Mean Value Theorems, introduction to integrals, and the Fundamental Theorem of Calculus. Prerequisite: MATH 125 with a minimum grade of C or placement. 4 credits.

MATH-227 Calculus II

Investigation of single variable integration including techniques of symbolic integration, numerical integration and error analysis, applications of integration, and improper integrals. Infinite sequences, infinite series, and Taylor series will be introduced. Prerequisite: MATH 226 with a minimum grade of C or placement. 4 credits.

MATH-228 Calculus III

The study of calculus of several variables. Topics include visualization techniques, vectors and solid analytic geometry, vector arithmetic, partial differentiation and its applications, gradients, optimization techniques, iterated integrals, line integrals, divergence, curl and related theorems. Prerequisite: MATH 227 with a minimum grade of C. 4 credits.

MATH-240 Discrete Mathematics

This course introduces the fundamentals of number systems, sets, functions and relations, logic and proof, elementary combinatorics, Boolean algebra and graph theory. It plays the role of a transition course for mathematics majors, moving them from calculus to the upper division courses in mathematics, and as an important course in logic for computer science majors. Prerequisite: MATH 226 with a minimum grade of C or placement. 4 credits.

MATH-255 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

MATH-275 Internship

See department for details. Internship contract required. 1-4 credits.

MATH-301 Mathematical Modeling

A wide variety of physical and social systems can be described and analyzed using mathematics. In this course, students will learn about the mathematical modeling process through examination and analysis of frequently used models in physics, chemistry, biology and other sciences. Students will also experience generating and testing new models. Prerequisite: MATH 226 with a minimum grade of C or placement. Offered alternate years. 4 credits.

MATH-306 Linear Algebra

Systems of linear equations, vector spaces, dependence, basis, dimension, linear transformations, determinants, eigenvalues, eigenvectors, orthogonal matrices, curves of best fit, quadratic forms. Attention to computational, and graphical applications and argumentation. Prerequisite: MATH 226 and MATH 240 each with a minimum grade of C. 4 credits.

MATH-311 Ordinary Differential Equations

Topics include the theory of linear equations, investigations of non-linear equations, systems of equations, numerical methods, stability, long-term behavior and Laplace transforms. Emphasis is placed on both quantitative and qualitative descriptions of solutions and applications. Prerequisite: MATH 227 with a minimum grade of C. Offered alternate years 2014-2016. 4 credits.

MATH-316 Mathematical Probability and Statistics

This course covers the fundamentals of mathematical probability and statistics, including the axioms of probability, conditional probability, discrete and continuous random variables, multivariate distributions, moment generating functions, the binomial, geometric, Poisson, normal, and exponential distributions and the Central Limit Theorem. Additional topics from statistical inference theory such as order statistics, confidence intervals, and Chi-Square tests in addition to estimation of parameters using maximum likelihood methods will also be covered as time permits. Prerequisite: MATH 228 (may be taken concurrently) and MATH 240 each with a minimum grade of C. Alternate years. 4 credits.

MATH-321 Higher Geometry

A rigorous study of both Euclidean and non-Euclidean geometries. Prerequisite: MATH 240 with a minimum grade of C. Offered alternate years. 4 credits.

MATH-326 Introduction to Analysis

Provides a transition from calculus to real and complex analysis. Focuses on rigorous development of fundamental concepts in calculus including limits, convergence of sequences and series, compact sets, continuity, uniform continuity and differentiability of functions. Prerequisite: MATH 227 and MATH 240 each with a minimum grade of C. 4 credits.

MATH-355 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

MATH-360 Special Topics in Mathematics

The topic of this course will change from year to year, and will depend on the interests and judgment of the math department faculty. Examples of topics may include the history of mathematics, dynamical systems, foundations and logic, mathematical biology, topology, graph theory, number theory, and differential geometry. Prerequisite: MATH 240 with a minimum grade of C; additional prerequisites may apply depending on the topic. May be repeated once for credit. 4 credits.

MATH-385 Junior Seminar

This course is designed to help students learn how to read mathematics, to communicate it through mathematical writing and speaking, and to prepare students for careers in mathematics and related fields. Students will read and present two journal articles. Contents will further include the mathematical writing package LaTeX and presentation software Beamer, as well as career planning and graduate school preparation. Students will also attend mathematical colloquia and mathematics projects presented during senior project day. Prerequisite: Junior standing or above (60 or more completed credits) and 6 credits of 300-level MATH courses with a minimum grade of C. 2 credits.

MATH-395 Independent Study

See department for details. Independent study contract required.

MATH-400 Number Theory

Studies the theory of numbers with an emphasis on algebraic structures. Topics may include modular arithmetic, quadratic fields, Pell's equations, quadratic reciprocity, sums of squares, unit groups, factorization in number rings, ideals, diophantine equations, and the geometry of numbers. Prerequisite: MATH 306 with a minimum grade of C. Offered alternate years. 4 credits.

MATH-402 Abstract Algebra

A survey of fundamental concepts in abstract algebra. Topics may include Group theory, including quotient groups, fundamental results on group homomorphisms and the study of finite groups; Ring theory, including fundamental homomorphism theorems, quotient rings and Euclidean rings, vector spaces and modules; Field theory including field extensions, Galois theory and classical results concerning constructability and solvability. Prerequisite: MATH 240 and MATH 306 each with a minimum grade of C. Offered alternate years. 4 credits.

MATH-405 Real Analysis

A rigorous treatment of the limit concept, continuity, differentiation and integration. Sequence and series convergence. Uniform and pointwise convergence of sequence and series of functions. Prerequisites: MATH 326 with a minimum grade of C. Offered alternate years. 4 credits.

MATH-410 Discrete Topics

This course will provide advanced study of a topic in discrete mathematics. Topics may include graph theory, combinatorics, discrete optimization, or set theory. Prerequisite: MATH 227 and MATH 240 with a minimum grade of C; other prerequisites as required by the topic. Offered alternate years. 4 credits.

MATH-411 Partial Differential Equations

Addresses solution methods for the three basic partial differential equations of mathematical physics: the heat, wave and potential equations. Methods covered will include power series, Fourier series, Laplace transform methods, separation of variables, and the method of characteristics. Initial and

boundary data will also be covered, as well as physical applications and numerical simulations of solutions. Special topics as time permits. Prerequisite: MATH 228 and MATH 311 each with a minimum grade of C. Offered alternate years. 4 credits.

MATH-412 Complex Analysis

Complex numbers, analytic functions, elementary functions, mapping by elementary functions, integrals, series, residues and poles, conformal mapping. Prerequisites: MATH 228 and MATH 240 both with a minimum grade of C. Offered alternate years. 4 credits.

MATH-455 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

MATH-475 Internship

See department for details. Internship contract required.

MATH-490 Senior Capstone

Students will have the opportunity to use their mathematical skills and knowledge to investigate projects of their choice under the supervision of faculty in mathematics. The project will result in a final paper and senior capstone presentation. Prerequisite: Senior standing (90 or more completed credits), a declared Mathematics major, and 9 credits of upper division MATH courses with a minimum grade of C. 1 credit.

MATH-492 Senior Capstone II

This is a continuation of MATH 490. Prerequisite: MATH 490 with a minimum grade of C. 1 credit.

MATH-495 Independent Study

See department for details. Independent study contract required.

MEDIA ARTS

Jennifer Hardacker, Chair; Dan Broyles, David Cassady, Mike Geraci, Enie Vaisburd

The Pacific University Media Arts Department believes that media creation is a powerful means of effective civic engagement and positive social change. Critical media consumption and the ability to create effective and ethical media in today's media-saturated world are at the core of the curricula and classes in the Media Arts. Students in the Media Arts benefit from close faculty mentorship to develop the technical, aesthetic, and organizational skills necessary to become confident producers of media, including films/videos, interactive media, and journalism, and the skills to become informed consumers of media.

The areas of studies in the Media Arts prepare students for careers in a variety of communication and media-related fields including (but not limited to): journalism, film/video production, interactive media production, multi-media writing, communication design, broadcasting, and marketing.

In addition to courses, the department offers many opportunities for majors and non-majors to gain experience collaborating with others in media and communications-related fields. For over 120 years, the student newspaper, The Pacific Index, has provided students with real world newspaper experience. The Pacific University Media Arts student club (PUMA) provides a forum for students to interact and pursue opportunities to enhance their experiences in the department. MAPS (Media Arts Production Services) offers students an opportunity to earn money, while building their skills and resume by using their talents and skills to create videos, print media, etc. for the campus and local communities. The award-winning Pacific University Speech and Debate (Forensics) Team gives students the chance to hone their public speaking skills in the highly competitive world of intercollegiate forensics and compete in national and international competitions. Qualified media arts students are also eligible for internships in professional media outlets and organizations seeking assistance with their media-related endeavors.

Media arts students can pursue a semester abroad studying media production and theory at beautiful York St. John University in York, England.

Program Learning Outcomes

Specific departmental goals include:

- Developing graduates who are capable of understanding communication, expression, and storytelling in media
- Providing students with an understanding of the history, social and cultural roles of media in society, both through courses specifically focused on these topics, and by incorporating these themes into production-oriented courses
- Developing an aesthetic understanding of media production and technical proficiency in areas such as video and visual production, writing and digital media development.

Film and Video: Requirements for the Major

MEDA 120	Film History and Analysis	4 credits
MEDA 250	Foundations of Video Production	4 credits
MEDA 322	Post Production	4 credits
MEDA 401	Narrative Film Theory and Criticism	4 credits
MEDA 434	Mass Media Law and Ethics	4 credits
MEDA 391	Media Arts Junior Seminar	2 credits
MEDA 491	Senior Capstone in Film/Video	2 credits
MEDA 492	Senior Capstone in Film/Video	2 credits

Choose one from:

MEDA 112	Media in Society	4 credits
MEDA/CS 122	Introduction to Digital Media	2 credits
MEDA 110	Introduction to Communication	4 credits

Choose two from the following:

MEDA 302	Documentary: Studies and Practice	4 credits
MEDA 303	Experimental: Studies and Practice	4 credits
MEDA 306	Animation: Studies and Practice	4 credits
MEDA 320	Narrative Production: From Script to Screen	4 credits

Choose one from the following (or one additional from the above list):

MEDA 304	Contemporary Explorations in Video	4 credits
MEDA 353	Video for Community Engagement: Mentoring	4 credits
MEDA 332	Screenwriting	4 credits
MEDA 333/THEA 333	Directing for Stage and Screen	
MEDA 480	Internship Seminar (4 credits or more and be pre-approved by F/V advisor)	4+ credits
Approved Study Abroad	4 credits	

TOTAL: 44-46 credits

Media Arts: Requirements for the Major

MEDA 110	Introduction to Communication	4 credits
MEDA 122	Introduction to Digital Media	2 credits
ARTST 228	Photography I	2 credits
OR		
ARTST 119	Introduction to Digital Imaging	2 credits
MEDA 240	Writing for the Media	4 credits
MEDA 250	Foundations of Video Production	4 credits
OR		
MEDA 153	Video for Community Engagement	4 credits
MEDA 434	Mass Media Law and Ethics	4 credits
MEDA 391	Media Arts Junior Seminar	2 credits
One of the following pairs of courses:*		
MEDA 491/492	Senior Capstone, Film/Video	4 credits
MEDA 493/494	Senior Capstone, Integrated Media	4 credits

MEDA 497/498	Senior Capstone, Journalism/General Media	4 credits
--------------	---	-----------

*Media Arts Majors consult with Media Arts faculty to choose the Capstone Seminar sequence that best fits their project and provides the appropriate faculty guidance, but the capstone project must span at least two Modes of Communication (Film/Video, Integrated Media, Journalism, Communication).

Students select 2 clusters, and are encouraged to consult with Media Arts advisors to choose the clusters that will best prepare them for their intended capstone project and post-graduate plans. At least 8 upper-division credits must come from classes taken from both of the clusters.

Integrated Media Cluster		8 credits
MEDA 265	Web Design	
CS 205	Programming for Multimedia	
MEDA 305	Communication Design II	
MEDA 365	Advanced Web Development	
Film/Video		8 credits
MEDA 303	Experimental: Studies & Practice	
MEDA 302	Documentary: Studies/Practice	
MEDA 306	Animation: Studies & Practice	
MEDA 320	Narrative Production: From Script/Screen	
MEDA 322	Post Production	
MEDA 332	Screenwriting	
MEDA 353	Video: Community Engagement Mentor	
Journalism		8 credits
MEDA 311	Electronic News	
MEDA 340	Reporting	
MEDA 363	Publication Editing and Design	
MEDA 370	Advanced Reporting	
Communication		8 credits
MEDA 201	Interpersonal Communication	
MEDA 335	Advanced Speaking & Presentations	
MEDA 351	Intercollegiate Forensics II (repeatable)	

TOTAL: 42 credits

Integrated Media: Requirements for the Major

MEDA/ARTST 109	Intro to Communication Design	2 credits
ARTST 119	Intro to Digital Imaging	2 credits*
MEDA/CS 122	Intro to Digital Media	2 credits
CS 205	Intro to Programming for Multimedia	4 credits
ARTST 217	Digital Art I	4 credits
ARTST 218	Digital Illustration I	4 credits
ARTST 228	Photography I	2 credits
MEDA 265	Web Design	4 credits
MEDA 305	Communication Design II	4 credits
MEDA 350	Integrated Media Project Development	4 credits
MEDA 360	Integrated Media Project Design	4 credits
MEDA 365	Advanced Web Development	4 credits
MEDA 391	Media Arts Junior Seminar	2 credits
MEDA 434	Mass Media Law and Ethics	4 credits
MEDA 493	Senior Capstone	2 credits
MEDA 494	Senior Capstone	2 credits

TOTAL: 48 - 50 credits*

* ARTST 119 can be waived for students who have prior experience with computer graphics applications

Journalism: Requirements for the Major

MEDA 112	Media in Society	4 credits
MEDA 122	Introduction to Digital Media	2 credits
ARTST 228	Photography I	2 credits
OR		
MEDA 250	Foundations of Video Production	4 credits
OR		
MEDA 153	Video for Community Engagement	4 credits
MEDA 240	Writing for the Media	4 credits
MEDA 340	Reporting	4 credits
MEDA 363	Publication Editing and Design	4 credits
MEDA 370	Advanced Reporting	4 credits
OR		
MEDA 311	Electronic News	4 credits
MEDA 434	Mass Media Law and Ethics	4 credits

Choose six credits from:		6 credits
MEDA 150	Pacific Index	
MEDA 450	Pacific Index Management	

MEDA 475	Media Internship	
MEDA 480	Internship Seminar	
Four credits of upper-division elective(s) in the Media Arts:		4 credits
MEDA 497	Senior Project	2 credits
MEDA 498	Senior Project	2 credits

TOTAL: 42 - 44 credits

MINORS IN THE MEDIA ARTS

Communication: Requirement for the Minor

MEDA 110	Introduction to Communication	4 credits
Eight additional MEDA credits from all courses listed below, 4 must be upper-division		8 credits
Elective credits, including 4 upper-division credits from the courses listed below.		12 credits
A minimum of 4 credits must be taken from <u>each</u> of the three categories. All courses are 4 credits unless noted (*).		

Perceiving Self and Culture

ANTH 317	Sociology of Popular Culture
IS 201	Intercultural Communication
MEDA 201	Interpersonal Communication
PSY 160	Culture and Behavior
PSY 308	Social Psychology
SOC 208	Race: Inequality and Identity
SOC 217	Gender and Sexuality

Oration and Performance

MEDA 101	Fundamentals of Speaking*
MEDA 335	Advanced Speaking and Presentations*
MEDA 351	Advanced Intercollegiate Forensics*
THEA 110	Acting I: Fundamentals*
THEA 385	Eco-Theatre: Community and Performance

Mediated Communication

MEDA 112	Media in Society
MEDA 122	Introduction to Digital Media*
MEDA 220	Film and Society*
MEDA 401	Narrative Film Theory and Criticism
POLS 221	Politics in Literature and Film*
POLS 301	Politics and the Media

TOTAL: 24 credits

Communication Design: Requirements for the Minor

MEDA 109/ARTST 109	Introduction to Communication Design	2 credits
ARTST 210	Observational and Expressive Drawing I	4 credits
ARTST 119	Introduction to Digital Imaging	2 credits
OR		
MEDA 122/CS 122	Introduction to Digital Media	2 credits
ARTST 218	Digital Illustration I	4 credits
MEDA 319	Information Design	4 credits
MEDA 363	Publication Editing and Design	4 credits
OR		
MEDA 305	Designing for Electronic Media	4 credits
MEDA 475	Internship	2 credits
OR		
MEDA 460	Design Workshop	2 credits

TOTAL: 22 credits

Film and Video Production: Requirements for the Minor

MEDA 250	Elements of Production	4 credits
OR		
MEDA 153	Video for Community Engagement	4 credits

Take a Minimum of 18 Credits from the following:

MEDA 120	Film History and Analysis	4 credits
MEDA 220	Film and Society	2 credits
MEDA 302	Documentary: Studies and Practice	4 credits
MEDA 303	Experimental Studies and Practice	4 credits
MEDA 304	Contemporary Explorations in Video	4 credits
MEDA 306	Animation: Studies and Practice	4 credits
MEDA 320	Narrative Production: From Script to Screen	4 credits
MEDA 322	Post Production	4 credits
MEDA 323	Cinematography	2 credits
MEDA 353	Video for Community Engagement: Mentoring	4 credits
MEDA 401	Narrative Theory and Criticism	4 credits

MEDA 434	Mass Media Law and Ethics	4 credits
----------	---------------------------	-----------

TOTAL: 22-24 credits

Film Studies: Requirements for the Minor

MEDA 120	Film History and Analysis	4 credits
MEDA 250	Elements of Production	4 credits
MEDA 401	Narrative Theory and Criticism	4 credits

Choose three courses from the following:

MEDA 302	Documentary: Studies and Practice	4 credits
MEDA 303	Experimental Studies and Practice	4 credits
MEDA 304	Contemporary Explorations in Video	4 credits
MEDA 306	Animation: Studies and Practice	4 credits
MEDA 353	Video for Community Engagement: Mentoring	4 credits
MEDA 434	Mass Media Law and Ethics	4 credits

Any approved film or literature-related courses offered by other departments including, but not limited to, English, Politics and Government, and World Languages. Courses must be approved by professor Jennifer Hardacker.

TOTAL: 24 credits

Media Arts: Requirements for the Minor

MEDA 110	Intro to Communication	4 credits
MEDA 122	Introduction to Digital Media	2 credits
MEDA 240	Writing for the Media	4 credits
MEDA 250	Foundations of Video Production	4 credits

OR

MEDA 153	Video for Community Engagement	4 credits
MEDA 434	Mass Media Law and Ethics	4 credits

Four credits of upper-division elective(s) in the Media Arts (excluding MEDA 351, 450, 475, or 480; or MEDA 353 if MEDA 153 already was taken)

TOTAL: 22 credits

Integrated Media: Requirements for the Minor

MEDA/ARTST 109	Intro to Communication Design	2 credits
ARTST 119	Intro to Digital Imaging	2 credits *
MEDA/CS 122	Intro to Digital Media	2 credits
ARTST 217	Digital Art I	4 credits

OR

ARTST 218	Digital Illustration I	
-----------	------------------------	--

MEDA 265	Web Design	4 credits
MEDA 305	Communication Design II	4 credits
MEDA 434	Mass Media Law and Ethics	4 credits

TOTAL: 20- 22 credits*

* ARTST 119 may be waived for students who have prior experience with computer graphics applications

Journalism: Requirements for the Minor

MEDA 112	Media in Society	4 credits
MEDA 122	Introduction to Digital Media	2 credits
MEDA 240	Writing for the Media	4 credits
MEDA 340	Reporting	4 credits
MEDA 363	Publication Editing and Design	4 credits

OR

MEDA 311	Electronic News	4 credits
MEDA 434	Mass Media Law and Ethics	4 credits

TOTAL: 22 credits

COURSES

MEDA-101 Fundamentals of Speaking

This course includes study of communication theory and the preparation and delivery of speeches. Students are expected to give a number of relatively short speeches before the class. Emphasis is on the development of speaking skills before an audience. Counts toward core requirement: Humanities (2010 catalog). 2 credits.

MEDA-109 Introduction to Communication Design

Students will explore the many ways in which design is used to enhance meaning, add value, and achieve desired outcomes with print and electronic communications while becoming conversant in many fundamental principles and techniques in the field of visual design. Also listed under ARTST 109. 2 credits.

MEDA-110 Introduction to Communication

An introduction to the study of human communication. Communication principles will be applied to interpersonal, small group, public, organizational and mass media contexts. Counts toward core requirement: Humanities. 4 credits.

MEDA-112 Media in Society

A survey of the evolution of the mass media and their role in society. Looks at historical development of print and electronic media as well as their status in today's world. Counts toward core requirement: Humanities. 4 credits.

MEDA-120 Film History and Analysis

Introduces the study of film by examining its history. Film movements, national cinemas, the development of technology, the evolution of the industry, and major directors are areas that are explored. Additionally, the course will introduce the student to film analysis by examining how the film's narrative form works in tandem with mise en scene, editing, cinematography and sound to create meaning. The course is international in scope and regular screenings are included. 4 hours plus additional film screening time. Counts toward core requirement: Humanities. 4 credits.

MEDA-121 Our Digital World

An exploration of the impact and effects of the Internet on all aspects of our lives as global citizens. This course examines the ethical, cultural, economic and political aspects of the Internet as a social technology. 2 credits.

MEDA-122 Introduction to Digital Media

An introduction to producing, editing and publishing computer-based media including computer graphics, Web sites, and streaming media. Includes a survey of modern communications formats such as blogs, podcasts, and social networks. Also listed as CS 122. 2 credits.

MEDA-150 Pacific Index

Working for the student newspaper in editorial, reporting, advertising, design and other capacities. May be repeated for credit. Pass/No Pass. 1 credit.

MEDA-151 Intercollegiate Forensics I

Students will participate in forensics as part of the Pacific University Speech and Debate Team and will be expected to assist with administrative responsibilities for the team or compete in the novice or junior divisions of Public Address, Interpretations of Literature, Limited Preparation, or Debate events. Particular emphasis will be placed on effective research, organization, and presentational skills required for intercollegiate forensics tournaments. Members of the Speech and Debate team are required to enroll in one section of MEDA 151 or MEDA 351 each semester they attend Pacific. Sections of MEDA 151 and MEDA 351 will meet concurrently each week. May be taken for repeat credit. Pass/No Pass. 0-1 credits.

MEDA-153 Video for Community Engagement

This integrated video production and studies course, is designed to enable students to engage the ways that: video media can impact identity formation; video media can be a means for self-empowerment; video media-making can be a tool for community building; video media can be a powerful tool for social change. The class will engage in exercises meant to explore making meaning through video images. Finally, Students will partner with non-profit groups whose objective it is to assist or enrich the community, and the students will collaborate on a video project as a means to further the community group's goals and tell their story. These groups' goals may include issues of social welfare, advocacy, environmental issues, sustainability, etc. Students are encouraged to use their strengths from other disciplines to better inform their storytelling. Meets 3 hours with substantial group production work outside of the classroom expected. MEDA 153 is designed for non-Film/Video majors with little or no prior production experience. Counts toward core requirement: Humanities (2010 catalog) and Civic Engagement. 4 credits.

MEDA-155 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

MEDA-195 Independent Study

See department for details. Independent study contract required.

MEDA-201 Interpersonal Communication

Examines the interpersonal dimension of communication. Principles, concepts, and theories of relationships will be analyzed, discussed and evaluated in their application to daily interaction. Emphasis on how interpersonal communication is structured and how it functions in transactions. Counts toward core requirement: Humanities (2010 catalog). 4 credits.

MEDA-220 Film and Society

Film and Society is a revolving topics course that examines major societal changes through the lens of a cinematic movement or genre. Film Noir and its reflection of post WWII anxieties in the US or the cinema of the French New Wave and its reflection of pre 1968 restlessness in France are examples of characteristic topics. Counts toward core requirement: Humanities. May be repeated for credit when topics vary. 2 credits.

MEDA-240 Writing for the Media

A course in basic media writing with emphasis on writing for print and electronic media. Spring. 4 credits.

MEDA-250 Foundations of Video Production

This class explores the creative possibilities of visual storytelling by learning the foundations of video production with regards to technical and visual language skills. Students produce short pieces in the narrative, experimental, and documentary form. Includes production planning, camera work, lighting, sound, and editing. Substantial production work outside of class is required. Those intending to be Film/Video majors are strongly advised to first complete MEDA 120 Film History and Analysis. Prerequisite: Instructor Consent. Counts toward core requirement: Humanities (2010 catalog). 4 credits.

MEDA-255 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

MEDA-265 Web Design

A study and practice in the creation of web sites. Students will approach web design from both an aesthetic and technical perspective and will employ standards-based practices in the design and development of sites using modern tool sets and languages. Prerequisite: CS/MEDA 122 with a minimum grade of C. 4 credits.

MEDA-275 Internship

See department for details. Internship contract required. 1-4 credits.

MEDA-295 Independent Study

See department for details. Independent study contract required.

MEDA-302 Documentary: Studies/Practice

The history, analysis and production of the documentary. Explores the documentary as personal essay, autobiography, journalism, political propaganda and social advocacy. Course provides a historical evolution of documentary form and students produce short documentary projects. Production work outside of class is required. Prerequisite: MEDA 250 with a minimum grade of C-. Counts toward core requirement: Humanities (prior to 2010 catalog). Offered alternate years. 4 credits.

MEDA-303 Experimental: Studies & Practice

The History, analysis and production of experimental film. Explores the creative and the innovative in film form and content through different movements in experimental film history. Students produce short experimental and personal projects. Production work outside of class is required. Prerequisite: MEDA 120 and MEDA 250. 4 credits.

MEDA-304 Contemporary Explorations

This course will explore rotating contemporary topics such as sustainability, the environment, intercultural and interdisciplinary subjects through creative film/video productions. Emphasis will be placed in exploring a subject or a concept and expressing it in creative ways. Coursework could include installation projects, travel projects or collaborations between disciplines. Prerequisite: MEDA 320 with a minimum grade of C-. 4 credits.

MEDA-305 Communication Design II

Students will expand their knowledge of communication design, while increasing technical skills to construct successful communication and brand identities in print and digital forms. Prerequisite: MEDA 109 and ARTST 218. 4 credits.

MEDA-306 Animation: Studies & Practice

This course will introduce students to the art of animation from a historical, theoretical, and technical standpoint. Students will be introduced to different formats and techniques of animation and will get to experiment with various animation techniques as a part of the coursework. Prerequisite: MEDA 250 with a minimum grade of C-. 4 credits.

MEDA-311 Electronic News

A course on developing electronic news stories for broadcast and the web. Prerequisite: MEDA 112, MEDA 250, and MEDA 340. 4 credits.

MEDA-319 Information Design

A course in the many disciplines of information design. Students will apply design concepts and techniques to qualitative and quantitative data sets in order to improve their communicative aspects. Prerequisite: MEDA 109 or ARTST 109; and ARTST 218. 4 credits.

MEDA-320 Narrative Production: Script-Screen

With a focus on narrative modes of production, this class will guide students from project conception through principle photography. The class will cover short-screenplay writing and revision, storyboarding, production design, directing, sound recording and cinematography in the service of a creative narrative film production. Prerequisite: MEDA 250 with a minimum grade of C-. 4 credits.

MEDA-322 Post Production

This course is focused on editing, sound design, and other postproduction skill necessary to create an effective video project. The class explores both technical and critical skills necessary to finesse a video that will effectively engage an audience. Film/Video majors take this course in sequence with MEDA 320. Prerequisite: MEDA 320. Instructor consent required. 4 credits.

MEDA-323 Cinematography

In this class, students will explore principles of lighting and camera technique and apply these concepts in video production situations. Students will learn to pre-visualize lighting design and to render that vision in hands on video production. Prerequisites: MEDA 250. Offered biennially. 2 credits.

MEDA-332 Screenwriting

Scriptwriting will familiarize the beginning screenwriter with the principles of screenplay structure and writing for the screen. We will study previously written scripts and produced films as well as screenwriting structure and form. Through exercises, readings, screenings and the workshop of students' writing, we will examine dramatic structure, plot, scene construction, character arc and re-writing. Prerequisite: ENGW 201, ENGW 202, or ENGW 203. 4 credits.

MEDA-333 Directing for Stage and Screen

A director shares his or her vision with collaborators and sees it through to a fully realized expression in time and space. In this course, students who aspire to work in theatre, film, and other media will learn skills and gain practice in responding to texts; developing robust concepts; communicating with actors, designers, and other collaborators; making eloquent staging choices to enhance storytelling; and managing multi-faceted projects. Throughout the semester, our touchstone will be the relationship between artistic vision and practical decision-making. We will also look at and learn from the work of seminal theorists and practitioners. Also listed as THEA 333. Prerequisite: THEA 110 and THEA 120; or MEDA 250. 4 credits.

MEDA-335 Advanced Speaking & Presentations

As an extension of MEDA 101, this course explores the advanced theoretical and practical skills necessary for delivering a variety of oral presentations. Students are required to give at least two individual presentations and one group presentation. Strong emphasis is placed on the development of critical thinking, organization, and oral presentation skills. Prerequisite: MEDA 101. Counts toward core requirement: Humanities (2010 catalog). 2 credits.

MEDA-340 Reporting

Development of news-gathering and reporting skills, and techniques for the mass media. Prerequisite: MEDA 240. Offered alternate years. 4 credits.

MEDA-345 Current Journalistic Practices

This course centers on advanced instruction in journalistic skills including feature and opinion writing, photojournalism, publication editing and design, and multi-media journalism. Subject matter will vary. Instructor's consent required. May be repeated for credit when topic varies. 2 credits.

MEDA-350 Integrated Media Production

Explores the use of advanced multimedia tools in the development of a significant multimedia project. Students combine the various fundamental principles of design and human technology interface to create a single interactive multimedia application for an external client. Prerequisite: MEDA 360. 4 credits.

MEDA-351 Intercollegiate Forensics II

Students will participate in forensics as part of the Pacific University Speech and Debate Team and will be expected to assist with administrative responsibilities for the team or compete in the open division of Public Address, Interpretations of Literature, Limited Preparation, or Debate events. Particular emphasis will be placed on effective research, organization, and presentational skills required for intercollegiate forensics tournaments. Members of the Speech and Debate team are required to enroll in one section of MEDA 151 or MEDA 351 each semester they attend Pacific. Sections of MEDA 151 and MEDA 351 will meet concurrently each week. Prerequisite: MEDA 101, MEDA 110, or MEDA 151. May be taken for repeat credit. Pass/No Pass. 0-2 credits.

MEDA-353 Video: Community Engagement Mentor

This integrated video production and studies course, is designed to enable students to engage the ways that: video media can impact identity formation; video media can be a means for self-empowerment; video media-making can be a tool for community building; video media can be a powerful tool for social change. Students enrolled in MEDA 353 act as mentors to the students enrolled in 153. Mentoring will involve: learning what it is to be a mentor and creating a video project that explores this topic, working with 153 students which includes tutoring, assisting in production, and leading several class meetings. Meets 3 hours with substantial group production work outside of the classroom expected. Prerequisite: MEDA 320. Counts toward core requirement: Humanities (2010 catalog) and Civic Engagement. 4 credits.

MEDA-355 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

MEDA-360 Integrated Media Proj Design

Provides students the opportunity to apply their advanced knowledge of interactive media to the planning and design of a major project. Using industry-standard project management methodologies, students develop a complete specification to define an interactive solution for an external client. Students are strongly encouraged to enroll in MEDA 350 in the following semester. Prerequisite: Junior standing or above (60 or more completed credits) and MEDA 265. Counts toward core requirement: Civic Engagement. 4 credits.

MEDA-363 Publication Editing & Design

Copy editing and print layout and design techniques with the emphasis on publication editing and design. Prerequisite: Junior standing or above (60 or more completed credits). Alternate years. 4 credits.

MEDA-365 Advanced Web Development

Builds on the fundamental concepts of web page design and construction by providing students with the opportunity to explore and use modern tool sets and techniques as they relate to advanced web site production and deployment. Prerequisite: MEDA 265 with a minimum grade of C. Offered alternate years in Spring. 4 credits.

MEDA-370 Advanced Reporting

Investigation of in-depth reporting techniques with specific attention paid to background and analysis and the production of multi-source, multi-part stories. Emphasis is in idea conception and development as well as information gathering and packaging. Prerequisite: MEDA 340. Offered alternate years. 4 credits.

MEDA-391 Media Arts Junior Seminar

Students will explore professional opportunities in Media Arts. For example, they will identify entry-level positions in their chosen field, develop a resume, set up a job-shadow or internship experience, and learn how to find and apply to graduate programs. Students will research and develop plans for their Senior Capstone project in Media Arts. Prerequisite: Junior standing or above (60 or more completed credits) and declared major in Media Arts. 2 credits.

MEDA-395 Independent Study

See department for details. Independent study contract required.

MEDA-401 Narrative Film Theory & Criticism

a survey of historical and contemporary issues in film theory (structuralist, post-structuralist, feminist, post-colonial, semiotic, genre theory, etc.) Prerequisite: MEDA 120 with a minimum grade of C-. Counts toward core requirement: Humanities (2010 catalog). 4 credits.

MEDA-425 Special Topics in the Media Arts

A rotating topics course that focuses on important and timely media-related issues related to the social, cultural, creative, ethical, and legal landscape of media creation, distribution, and utilization. May be repeated when content varies. Offered intermittently. 4 credits.

MEDA-434 Mass Media Law and Ethics

A study of the legal and ethical parameter in which the media work. Prerequisite: Senior standing (90 or more completed credits). 4 credits.

MEDA-450 Pacific Index-Management

Working in an editorial or advertising management position for the student newspaper. Instructor's consent required. May be repeated for credit. Pass/No Pass. 2 credits.

MEDA-455 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

MEDA-475 Internship

An internship consists of a field experience in a student's specific career choice. Application of theories is emphasized. Internship contract required. Pass/No Pass.

MEDA-480 Internship Seminar

An intensive review of internship experiences with emphasis on the media work experience and the community in which the experience was gained. Prerequisite: Approved internship. Instructor's consent required. Students may not receive credit for MEDA 475 and MEDA 480 for the same internship experience. May be repeated once for credit. Pass/No Pass. 1-4 credits.

MEDA-491 Senior Capstone Film/Video

The Film/Video student creates a video or film studies project that demonstrates a culmination of the student's instruction in the department. The project will be expected to meet rigorous professional and/or academic standards. Emphasis is on planning, research and proposal of the project. Prerequisite: Senior standing (90 or more completed credits) and must be a Film/Video major or General Media Major. Instructor's consent required. 2 credits.

MEDA-492 Senior Capstone Film/Video

Second half of the year-long Film/Video-focused Capstone Project. The emphasis is on the execution and finessing of the project. Prerequisite: MEDA 491. 2 credits.

MEDA-493 Senior Capstone Integrated Media

The Integrated Media student creates an interactive and/or Web-based project that demonstrates a culmination of the student's education and experience in the department. The project will be expected to meet rigorous professional and/or academic standards. Emphasis is on the planning, research and design of the project. Prerequisite: Senior standing (90 or more completed credits) and must be an Integrated Media or General Media major. Instructor's consent required. 2 credits.

MEDA-494 Senior Capstone Integrated Media

Second half of the year-long Integrated Media-focused Capstone Project. The emphasis is on the development, testing, and delivery of the project. Prerequisite: MEDA 493. 2 credits.

MEDA-497 Senior Capstone Journalism

The student will engage in research or the creation of a written or visual project that demonstrates a culmination of the student's education and experience in the department. The project will be expected to meet rigorous professional and/or academic standards. Emphasis is on the planning, research and design of the project. Prerequisite: Senior standing (90 or more completed credits) and must be a Journalism or General Media major. Instructor's consent required. 2 credits.

MEDA-498 Senior Capstone Journalism

Second half of the year-long Journalism focused Capstone Project. The emphasis is on the writing, design, and publication or distribution of the project. Prerequisite: MEDA 497. 2 credits.

MUSIC

Scott Tuomi, Chair; Michael Burch-Pesses, Christine Korb, Dijana Ihas, Tim Stephens

Instructors/Accompanists

Hannah Brewer, Accompanist
Lars Campbell, Instructor in Low Brass
Janet Coleman, Accompanist
Steve Conrow, Instructor in Trumpet
Arlyn Curtis, Instructor in Bass
Cessaries Galusha, Instructor in Piano
Les Green, Instructor in Voice
Dijana Ihas, Assistant Professor, Viola
Alan Juza, Instructor in Oboe
Steve Kravitz, Instructor in Woodwinds
Konstantin Kvach, Instructor in Voice
Adam LaMotte, Instructor in Violin/Viola
Doug McMickle, Instructor in Guitar
Angela Niederloh, Instructor in Voice
Melissa Parkhurst, Instructor in Musicology and Ethnomusicology
Jeff Peyton, Instructor in Percussion
Anne Reed, Instructor in Voice
Noah Seitz, Instructor in Cello
David Rivas, Accompanist
Kelli Brown Stephens, Instructor in Piano
Tamara Still, Instructor in Organ
John Stowell, Instructor in Jazz Guitar
Scott Tuomi, Professor, Voice
Harold Vreeland, Instructor in Clarinet
Santha Zaik, Instructor in Horn

The Music Department offers the following General Studies courses for students with little or no previous experience in music (Note: All 4-credit and 2-credit Music courses, as well as select 1-credit ensembles, count toward satisfying the Arts requirement in the Academic Core):

MUS 101	Introduction to Classical Music	4 credits
MUS 102	History of Jazz and Rock	4 credits
MUS 110	Music Notation	4 credits
MUS 131	Introduction to MIDI Lab	1 credit
MUS 181	Class Voice I	1 credit
MUS 182	Class Voice II	1 credit
MUS 183	Class Piano I	1 credit
MUS 184	Class Piano II	1 credit
MUS 187	Class Guitar I	1 credit
MUS 188	Class Guitar II	1 credit
MUS 241	Introduction to World Music	4 credits
All performing ensembles	0 or 1 credit	
Private instruction		0.5 or 1 credit

Ensembles are open to all students. See course descriptions.

MUS 151/352	Jazz Band
MUS 153/353	Concert Choir
MUS 158/358	Orchestra
MUS 159/359	Chamber Ensembles (various)
MUS 163/363	Chamber Singers
MUS 165/365	Symphonic Band
MUS 167/367	Jazz Choir

Ensemble courses are considered activity courses. 8 credits may be taken as activity courses toward the 124 credits required for graduation.

MUSIC PROGRAMS

The Music Department offers:

- Bachelor of Arts in Music
- Bachelor of Arts in Music: Performance Emphasis
- Bachelor of Arts in Music Education
- Minor in Music
- Bachelor of Music Therapy

Music majors and Music Therapy students are allowed to apply a maximum of 60 credits in Music toward graduation. The remaining 64 credits must be from other academic disciplines. To conveniently facilitate compliance with this regulation, Music majors are encouraged to complete an academic minor in another discipline.

The Department of Music is accredited by the National Association of Schools of Music. It also is accredited by the Oregon Teacher Standards and Practices Commission and fulfills five major functions within the University:

- provides access to courses in music for all students of the University regardless of their previous involvement or experience
- provides opportunities for active music-making in a variety of instrumental and vocal ensembles for all interested students, faculty, staff and members of the community
- prepares elementary and secondary teachers of music

- provides applied music instruction in voice, wind, percussion, string and keyboard instruments and offers degrees with performance emphasis in voice and piano
- prepares students for graduate study in music

Program Learning Outcomes

The Music Department at Pacific University seeks to prepare students:

- for lifelong interest, participation and enjoyment in music
- to become informed audience members (intelligent listeners and evaluators) of music and musical performances
- to be functionally literate in the language of music-reading, writing, speaking and listening
- to pursue active music-making, both vocally and instrumentally
- to create their own music
- to discover relationships between music, the other arts and disciplines other than the arts
- to broaden and deepen their understanding of the music of our cultural heritage
- to increase their appreciation of musical systems and traditions of cultures other than our own
- to become more proficient in the music technologies appropriate to their areas of musical interest
- to prepare for careers in elementary and secondary music education
- to pursue rigorous and dedicated activity as performers specializing in voice or piano
- to prepare for graduate study in music composition, music education or performance

Music Core Courses: Required for all Bachelor of Arts in Music majors

<u>Music Theory:</u>		16 credits
MUS 111	Music Theory I	
MUS 112	Music Theory II	
MUS 211	Music Theory III	
MUS 212	Music Theory IV	

<u>Music History:</u>		8 credits
MUS 220	Music Survey I	
MUS 221	Music Survey II	

<u>Ensembles:</u>		0-8 credits
Large ensemble appropriate to the student's instrument or voice each semester in residence; may be taken for 0 or 1 credit.		
MUS 153/353	Pacific University Concert Choir	
MUS 158/358	Orchestra	
MUS 163/363	Chambers Singers	
MUS 165/365	Symphonic Band	

<u>Applied Music:</u>		8 credits
Private instruction with a Pacific University instructor every semester in residence (MUS 171, 172, 271, 272, 371, 372, 471, 472)		

<u>Piano:</u> (and pass the Piano Proficiency Test)		2 credits
MUS 185*	Functional Piano I	
MUS 186*	Functional Piano II	

<u>Recital Attendance:</u>		
MUS 100 (0-credit) seven semesters		0 credit

* Waived for students who pass the Piano Proficiency Test without enrolling in these courses

TOTAL: 34-42 credits

Music: Requirements for the Major

<u>Music Core Courses</u>		38 credits
---------------------------	--	------------

<u>Music History (one of the following):</u>		4 credits
MUS 321	Music History: Antiquity to 1585	
MUS 322	Music History: 1585-1809	
MUS 323	Music History: Classis/Romantic	
MUS 324	Music History: The 20 th Century	

<u>Required Courses</u>		
Electives in Music (with a minimum of 2 upper-division credits)		
Music Capstone: MUS 495	2 credits	12 credits

TOTAL: 56 credits

Music Education: Requirements for the Major

<u>Music Core Courses</u>		38 credits
---------------------------	--	------------

<u>Techniques and Methods: choose four*:</u>		4 credits
MUS 181	Class Voice	
MUS 233	String Methods	
MUS 234	Woodwind Methods	
MUS 235	Brass Methods	
MUS 236	Percussion Methods	

<u>Music Education:</u>		12 credits
MUS 284	Teaching Music	

MUS 301	Music in the Elementary School	
MUS 302	Music in Secondary School (choral)	
OR		
MUS 303	Music in Secondary School (instrumental)	
<u>Conducting:</u>		
MUS 282	Basics of Conducting	4 credits
MUS 482	Instrumental Conducting	
OR		
MUS 483	Choral Conducting	
<u>Required Courses:</u>		
MUS 241	Introduction to World Music	4 credits
MUS 310	Orchestration and Arranging	2 credits
MUS 495	Music Capstone	2 credits

* A Music education major is to take the methods courses not representing the family of his or her major instrument or voice.

Note: This curriculum does not include teaching licensure/certification. Students majoring in Music Education and seeking licensure to teach in public schools may elect one of two paths: 1) They may complete licensure courses through the College of Education concurrently with or following undergraduate study (34 credits), typically requiring an additional year beyond the baccalaureate degree, or degree and licensure in five years; or 2) pursue a Master of Arts in Teaching degree (twelve-month program) which includes licensure requirements. Licensure requirements can be found in the Pacific University College of Arts and Sciences Catalog under Education/Required Professional Courses for Early Childhood & Elementary School Authorizations or Middle School and High School Authorizations, as appropriate; and Master of Arts in Teaching requirements can be found in the College of Education section of the Pacific University Graduate and Professions Catalog.

TOTAL: 66 credits

Music: Requirements for the Major with a Performance Emphasis

This emphasis is for students whose primary instrument is voice or piano.

Vocal Performance

Music Core Courses 38 credits

<u>Required Courses:</u>		
MUS 326	Song Literature	4 credits
MUS 282	Basics of Conducting	2 credits
MUS 490	Intro to Vocal Pedagogy	4 credits
MUS 351	Diction for Singers	2 credits
MUS 394	Junior Recital	1 credit
MUS 494	Senior Recital	2 credits
Electives in Music		4 credits

TOTAL: 57 credits

Vocal performance majors are also encouraged to take courses in European languages, including German, French and Italian, THEA 110 Acting I: Fundamentals, and any introductory course in Dance.

Piano Performance

Music Core Courses: 38 credits

<u>Music History (one of the following):</u>		
MUS 321	Music History: Antiquity to 1585	4 credits
MUS 322	Music History: 1585-1809	
MUS 323	Music History: Classis/Romantic	
MUS 324	Music History: The 20 th Century	

<u>Required Courses:</u>		
MUS 282	Basics of Conducting	2 credits
MUS 491	Piano Pedagogy	2 credits
MUS 391	Piano Literature	2 credits
MUS 394	Junior Recital	1 credit
MUS 494	Senior Recital	2 credits
Electives in Music		4 credits

TOTAL: 55 credits

Instrumental Performance

Music Core Courses 38 credits

<u>Required Courses:</u>		
MUS 282	Basics of Conducting	2 credits

Methods Courses (as appropriate) 2 credits
(MUS 233, 234, 235, 236)

Two upper-division electives in Music History from the following courses: 8 credits
 MUS 321 Music History: Antiquity to 1585
 MUS 322 Music History: 1585-1809
 MUS 323 Music History: Classic/Romantic
 MUS 324 Music History: The 20th Century

Recitals:
 MUS 394 Junior Recital 1 credit
 MUS 494 Senior Recital 2 credits

TOTAL: 53 credits

At the end of the second year of music study, the progress of Music majors and minors will be assessed to evaluate the student's potential to complete upper-division music requirements.

Music courses fulfilling requirements for the Music Major or Music Minor must be passed with a grade of "C-" or higher.

Music: Requirements for the Minor

MUS 111	Music Theory I	4 credits
MUS 112	Music Theory II	4 credits
MUS 220	Music Survey I	4 credits
MUS 221	Music Survey II	4 credits
MUS 185*	Functional Piano I	1 credit
MUS 186*	Functional Piano II	1 credit
MUS 100	Recital Attendance (four semesters)	0 credit
Applied Music on student's primary instrument or voice (MUS 171, 172, 271, 272)		2 credits
Large ensemble participation for four semesters (appropriate to instrument/voice: MUS 153, 158, 163, 165)		0-4 credits

*Waived for students who pass the Piano Proficiency Test without enrolling

TOTAL: 20-24 Credits

Other Requirements

Students of piano at the 300-level or above are required to provide designated departmental accompanying, which substitutes for major ensemble participation. Pianists accompanying a departmental ensemble are to enroll for that ensemble. Those engaged in other departmental accompanying are to enroll in MUS 280.

Bachelor of Music Therapy

With the combination of an aging population and the growing acceptance of the healing powers of music, Music Therapy is one of the fastest growing fields in music today. The discovery of new applications for music in the health professions has caused and increased demand for board certified music therapists.

Music Therapy: Requirements for the Major

Music Foundation

MUS 100	Recital Attendance (seven semesters)	0 credits
MUS 185*	Functional Piano I	1 credit
MUS 186*	Functional Piano II	1 credit
MUS 187	Class Guitar I	1 credit
MUS 182	Class Voice II	1 credit
MUS 111	Music Theory I	4 credits
MUS 112	Music Theory II	4 credits
MUS 211	Music Theory III	4 credits
MUS 212	Music Theory IV	4 credits
MUS 220	Music Survey I	4 credits
MUS 221	Music Survey II	4 credits
MUS 282	Conducting	2 credits
MUS 236	Percussion Methods	1 credit
MUS 131	Midi-Lab	1 credit
MUS 495	Music Capstone	2 credits

* Waived for students who pass the Piano Proficiency Test without enrolling in these courses

Ensembles: 0-4 credits

Large ensemble appropriate to the student's instrument or voice for four semesters	
MUS 153/353	Pacific University Concert Choir
MUS 158/358	Orchestra
MUS 163/363	Chambers Singers
MUS 165/365	Symphonic Band

Applied Music: 6 credits

Private instruction with a Pacific University instructor for 6 semesters
(MUS 171, 172, 271, 272, 371, 372, 471, 472)

Music Therapy Courses

MT 190	Introduction to Music Therapy	2 credits
MT 290	Clinical Processes in Music Therapy 1	2 credits

MT 390	Clinical Processes in Music Therapy 2	2 credits
MT 391	Theory and Practice with Children	2 credits
MT 392	Theory and Practice with Adults	2 credits
MT 491	Psychology of Music	4 credits
MT 493	Research in Music Therapy	4 credits
MT 496	Improvisation and Songwriting for Music Therapy	2 credits
MT 494	Clinical & Professional Issues in Music Therapy	1 credit
MT 294, 296, 394, 396	Music Therapy Practicum	4 credits

Additional Competency Requirements*

PSY 211	Abnormal Psychology	4 credits
PSY 358	Psychology of Ethnic Diversity	4 credits
SOCWK 325	Counseling & Interviewing Techniques	4 credits
PHIL 307	Medicine, Ethics and Health Care	4 credits
OR		
PHIL 202	Ethics and Society	
SOC 301	Social Statistics	4 credits
OR		
PSY 350	Behavioral Statistics	
OR		
MATH 207	General Elementary Statistics	4 credits
BIOL 110	Human Biology	4 credits
OR		
BIOL 224	Human Anatomy	

*These competency requirements also fulfill key core requirements.

Fifth-Year Music Therapy Internship:

MT 498	Clinical Internship I	2 credits
MT 499	Clinical Internship II	2 credits

TOTAL: 89-93 credits

COURSES

MT-155 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

MT-190 Introduction to Music Therapy

An overview of the history, theories and current practice of music therapy in various clinical settings and to the many populations served by the discipline. This course includes field observations and is open to all students and professions interested in learning more about the field. 2 credits.

MT-255 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

MT-290 Clinical Processes in Music Therapy 1

This course serves as an overview of the therapeutic use of music and is an introduction to the music therapy clinical process with cases that illustrate clinical competencies contained in the AMTA Professional Competencies document. Assessment, treatment planning, clinical observation, data collection, session design, evaluation and documentation will be covered. Prerequisite: MT 190, MUS 111, and MUS 112. 2 credits.

MT-294 Music Therapy Practicum 1

Supervised field experience co-facilitating sessions with children. In addition to clinical work, students participate in a weekly on-campus seminar. Prerequisite: MT 190. 1 credit.

MT-295 Independent Study

See department for details. Independent study contract required.

MT-296 Music Therapy Practicum 2

Supervised field experience facilitating sessions with physically challenged clients. In addition to clinical work, students participate in a weekly on-campus seminar. Prerequisite: MT 294. 1 credit.

MT-355 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

MT-390 Clinical Processes in Music Therapy 2

This course will continue deepening the scope of knowledge surrounding the clinical processes. Assessment, observation, goals and objectives, data collection, evaluation and documentation will be reviewed. A variety of musical skills and techniques for the design and implementation of music therapy will be explored. Prerequisite: MT 290. 2 credits.

MT-391 Theory & Practice With Children

Study of methods and techniques in music therapy with children with disabilities and the disorders and treatment methods utilized with children and adolescents. Students will learn the developmental patterns of infants, children, and adolescents, combined with strategies to foster coping skills and improvement. Prerequisite: MT 290. 2 credits.

MT-392 Theory & Practice With Adults

Clinical strategies/approaches/competencies in exceptionality relevant to work with adult psychiatric patients and older adults. Developmental theories of adulthood, ethical considerations, psychotherapeutic models and their relationship to music therapy clinical practice will be addressed. Prerequisite: MT 391. 2 credits.

MT-394 Music Therapy Practicum 3

Supervised field experience facilitating sessions with emotionally challenged adults. In addition to clinical work, students participate in a weekly on-campus seminar. Prerequisite: MT 296. 1 credit.

MT-395 Independent Study

See department for details. Independent study contract required.

MT-396 Music Therapy Practicum 4

Supervised field experience facilitating sessions with clients of student's preference in preparation of internship population. In addition to clinical work, students participate in a weekly on-campus seminar. Prerequisite: MT 394. 1 credit.

MT-397 Music Therapy Practicum 5

Supervised clinical experience to take place in Hawaii. Occurs over a summer, offered periodically. Not required but suggested. Prerequisite: MT 396. 1 credit.

MT-455 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

MT-475 Internship

See department for details. Internship contract required.

MT-491 Psychology of Music

An in-depth study of the psychological foundations of musical behavior including human response to music, music preference and ability, psycho-acoustical parameters, and research in the field. Prerequisite: PSY 150. MT 190 recommended. 4 credits.

MT-493 Research in Music Therapy

Experiences in reading, interpreting and creating ideas for qualitative and quantitative research. Interpretation of statistical analysis is also expected in this course. Prerequisite: MT 491. 4 credits.

MT-494 Clinical/Prof Issues in Music Therapy

This senior capstone course covers issues and trends in the field and prepares the student for the music therapy internship. Reimbursement, marketing, grant writing, the development of a music therapy business proposal and a professional presentation are course highlights. Prerequisite: MT 394. 1 credit.

MT-495 Independent Study

See department for details. Independent study contract required.

MT-496 Improv & Songwriting for Music Therapy

This course is designed to provide improvisatory and songwriting skills for use in the clinical setting. Students will develop musical and interactive skills and will practice leadership and facilitation skills as related to improvisation and songwriting with clients. Prerequisite: MT 296. 2 credits.

MT-498 Clinical Internship I

A supervised 6-9 month internship at an AMTA approved site or a University Affiliated Internship site is a graduation requirement and culminates in the eligibility to sit for the national examination administered by the Certification Board for Music Therapy. This course is semester 1 of a two-semester sequence. Prerequisite: MT 396. 1 credit.

MT-499 Clinical Internship II

A supervised 6-9 month internship at an AMTA approved site or a University Affiliated Internship site is a graduation requirement and culminates in the eligibility to sit for the national examination administered by the Certification Board for Music Therapy. This course is semester 2 of a two-semester sequence. Prerequisite: MT 498. 1 credit.

MUS-100 Concert Hour

All music majors must enroll in recital attendance for seven semesters and attend at least seven performances per semester. All music minors must enroll in recital attendance for four semesters and attend at least five performances per term. May be repeated. Pass/No Pass. 0 credits.

MUS-101 Introduction to Classical Music

This course pursues the development of listening skills, principally with respect to the traditions of Western Classical Music. Emphasis is placed on the development of an aural sense of historical, stylistic, and idiomatic contexts. Previous musical knowledge or experience is neither required nor assumed. Offered each semester. 4 credits.

MUS-102 History of Jazz and Rock

Surveys the impact of jazz and rock music from both the social/historical and the musical points of view. Emphasis is placed on historical context and development of aural skills. The time frame will be 1900 to the present. Offered Fall semester. 4 credits.

MUS-110 Music Notation

Introduction to the expressive elements of music and musical notation. Topics include rhythm, scales, keys, intervals, melody, harmony, texture, and form. Recommended for those preparing for the music theory sequence, elementary teachers, aspiring songwriters, and all those with a desire to read or write music. Emphasis on aural skills and music reading. No previous musical background necessary. Offered each semester. 4 credits.

MUS-111 Music Theory I

Introductory studies in harmony and counterpoint. Emphasis placed on scales, intervals, triads, non-harmonic tones and seventh chords. Projects will include students' original composition. Prerequisite: placement exam. Corequisite: MUS 100. Offered Fall semester. 4 credits.

MUS-112 Music Theory II

A continuation of MUS 111. Emphasis is on the harmonic, melodic, rhythmic and basic formal procedures of the common practice period. Primary topics will be secondary dominants, modulation, Neapolitan and Augmented sixth chords, modulation and analysis. Projects will include students' original compositions. Prerequisite: MUS 111. Corequisite: MUS 100. Offered Spring semester. 4 credits.

MUS-131 Introduction to MIDI Lab

Introduction to Musical Instrument Digital Interface (MIDI) fundamentals and its practical implications for music education and composition. Basic Macintosh computer skills required. 1 credit.

MUS-151 Jazz Band

A jazz band open to all University students. The band regularly performs with regionally and nationally-known soloists. Repertoire ranges from early Jazz and Big Band to Jazz/Rock fusion. Audition required. May be repeated for credit. 0-1 credit.

MUS-153 Pacific Univ. Concert Choir

This class is designed to provide a large ensemble choral experience for students of all ability levels. Students will learn basic vocal and choral techniques including breath support, correct posture, diction, tone production, blend and balance. Additionally, basic musicianship and performance skills will be taught through the rehearsal and performance of a diverse selection of choral literature from a variety of historical periods, styles and cultures. Fulfills Music major/minor large ensemble requirement. May be repeated for credit. 0-1 credit.

MUS-155 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

MUS-158 Orchestra

A large instrumental ensemble open to University students, faculty, staff, and other interested members in the community. The orchestra performs major concerts of standard orchestral literature each semester and for other various events. Counts as upper division credit for upper division students. Prerequisite: Audition and high school level or better ability to play a string, woodwind, brass, or percussion instrument. May be repeated for credit. 0-1 credit.

MUS-159 Chamber Ensembles

Small ensembles of many different instrumentations and voices open to Pacific students, faculty, staff, and other interested members in the community. Works from all periods and of all styles are studied. It is the responsibility of the students to form an appropriate ensemble and arrange for the appropriate faculty member to provide coaching prior to enrolling in the course. This course counts toward Activity Credit (not large ensemble such as Orchestra, Symphonic Band, Chamber Singers, and Concert Choir) for music majors and minors. Co-requisite for string players: MUS 158. Prerequisite for string players and/or all MUS 159 string sections: audition. Prerequisite for MUS 159-06, MUS 159-07 and MUS 159-08: audition. May be repeated for credit. 0-1 credit.

MUS-163 Chamber Singers

A select mixed ensemble that performs regularly both on campus and off campus. Open to all students. Rehearsal and performance of choral literature from the Renaissance to the present. Three to five major performances per year, plus participation in choral festivals and tour on alternate years. Audition required. May be repeated for credit. 0-1 credit.

MUS-165 Symphonic Band

A large instrumental ensemble open to University students, faculty, staff, and other interested members in the community. The band performs major concerts of standard wind ensemble literature each semester and for other various events. Prerequisite: high school level or better ability to play a wind or percussion instrument. May be repeated for credit. 0-1 credit.

MUS-167 Jazz Choir

This ensemble is a performance outlet for singers, both majors and non-majors, who wish to explore jazz from a vocal perspective. Performances will be both on and off campus and participation in Northwest Vocal Jazz Festivals is also planned. Prerequisite: audition. May be repeated for credit. 0-1 credit.

MUS-171 Applied Music: 1st Sem Private Lessons

Private instruction is available on all band and orchestral instruments, piano, organ, guitar, and voice for all University students, whether they are music majors or minors or not, for an additional fee. The lesson fee is waived for music majors up to the number of credits required for their course of study, provided the major is declared no later than the add/drop date of the term in which the student is registered for lessons; a maximum of 1 credit may be waived per term; waivers are only given for the student's primary instrument. The X71/X72 sequence of courses is proficiency-based using nationally accepted criteria for advancement through the sequence of levels. Exact course requirements will be indicated on course syllabi and determined by the instructor to best serve the student's individual needs and experience. Music majors and minors taking private instruction are required to participate in the appropriate large ensemble for their primary instrument; and individual daily practice is required. Lessons are letter graded. Applied Music jury exams are required of all Applied Music students at the end of each semester, except MUS 171. Music majors and minors enrolled in Applied Music courses 271 and higher are required to perform in a Student Performance forum (student recital) each semester. Full-hour weekly lessons, earning one credit per semester, are the norm for music majors; half-hour lessons, earning one-half credit, are the norm for music minors. Course credit for full-hour or half-hour lessons is based on twelve lessons per semester. See the Music Department Chair for course section assignment when enrolling for Applied Music for the first time. 0.5-1 credit.

MUS-172 Applied Music: 2nd Sem Private Lessons

Private instruction is available on all band and orchestral instruments, piano, organ, guitar, and voice for all University students, whether they are music majors or minors or not, for an additional fee. The lesson fee is waived for music majors up to the number of credits required for their course of study, provided the major is declared no later than the add/drop date of the term in which the student is registered for lessons; a maximum of 1 credit may be waived per term; waivers are only given for the student's primary instrument. The X71/X72 sequence of courses is proficiency-based using nationally accepted criteria for advancement through the sequence of levels. Exact course requirements will be indicated on course syllabi and determined by the instructor to best serve the student's individual needs and experience. Music majors and minors taking private instruction are required to participate in the appropriate large ensemble for their primary instrument; and individual daily practice is required. Lessons are letter graded. Applied Music jury exams are required of all Applied Music students at the end of each semester, except MUS 171. Music majors and minors enrolled in Applied Music courses 271 and higher are required to perform in a Student Performance forum (student recital) each semester. Full-hour weekly lessons, earning one credit per semester, are the norm for music majors; half-hour lessons, earning one-half credit, are the norm for music minors. Course credit for full-hour or half-hour lessons is based on twelve lessons per semester. See the Music Department Chair for course section assignment when enrolling for Applied Music for the first time. Prerequisite: MUS 171 with minimum grade of C. 0.5-1 credit.

MUS-181 Class Voice

A course designed for non-music majors to improve their singing skills. Emphasis is placed on improving the vocal technique, breath support, and tone quality of each member of the class in a no-pressure, supportive group situation. Offered Fall semester. 1 credit.

MUS-182 Class Voice II

A continuation of MUS 181, this course explores vocal technique for those with some previous knowledge of singing who seek improvement as soloists and/or choral singers. Students study both classical and contemporary (musical theatre) literature and perform selections in a supportive group environment. Prerequisite: MUS 181. 1 credit.

MUS-183 Class Piano I

Class piano for non-music majors/minors with little or no basic music or piano skills; scales, arpeggios, chords, and reading skills necessary for the playing of piano for personal enjoyment. 1 credit.

MUS-184 Class Piano II

A continuation of MUS 183. Prerequisite: MUS 183. 1 credit.

MUS-185 Functional Piano I

Class piano for music majors/minors with little or no basic piano skills; scales, arpeggios, chords, and reading skills necessary for the playing of simple accompaniments in the public school or private studio. Prerequisite: Declared Music major or minor. 1 credit.

MUS-186 Functional Piano II

A continuation of MUS 185. Prerequisite: MUS 185. 1 credit.

MUS-187 Class Guitar I

An examination of various techniques and styles of guitar playing including chord formations, positions, tuning and tone quality. 1 credit.

MUS-188 Class Guitar II

A continuation of MUS 187. Prerequisite: MUS 187. 1 credit.

MUS-191 Beginning Jazz Improvisation I

Techniques and materials used in the performance of basic instrumental jazz styles such as the Blues and Standards. Studies will include jazz theory, keyboard harmony, solo transcription, and required listening. Prerequisite: MUS 112. 1 credit.

MUS-195 Independent Study

See department for details. Independent Study contract required. 0.5-3 credits.

MUS-211 Music Theory III

A continuation of MUS 112. Emphasis is on the melodic, harmonic, rhythmic, and basic formal procedures of selected Medieval, Renaissance, Baroque, Classical and Romantic schools and styles. Projects will include students' original compositions. Prerequisite: MUS 112. Corequisite: MUS 100. Offered Fall semester. 4 credits.

MUS-212 Music Theory IV

A continuation of MUS 211. This course examines the basic harmonic, melodic, rhythmic, and formal procedures of late 19th and 20th century music. Primary topics will be the extension of tonality, chromaticism, impressionism, quartal harmony, atonality, serialism, electronic media, and minimalism. Projects will include students' original compositions. Prerequisite: MUS-211 Corequisite: MUS-100. Offered Spring semester. 4 credits.

MUS-220 Music Survey I

This course serves as an introduction to Western Music History beginning with antiquity, continuing through medieval music, the Renaissance and concluding with the music of the Baroque period (1750). It is designed to give a historical overview of the concepts, genres, theoretical practices and composers associated with these periods. The course will also address the significant social, political, artistic and historical events associated with these periods as a prerequisite to more advanced study in music history. Prerequisite: MUS 112. 4 credits.

MUS-221 Music Survey II

This course serves as an introduction to Western Music History beginning with the Classical period, continuing through the Romantic era and concluding with music of the 20th and 21st centuries. It is designed to give a historical overview of the concepts, genres, theoretical practices and composers associated with these periods. The course will also address the significant social, political, artistic and historical events associated with these periods as a prerequisite to more advanced study in music history. Prerequisite: MUS 112. 4 credits.

MUS-233 String Methods

Laboratory classes in playing and teaching the string instruments of the orchestra. Violin, viola, cello or bass are presented with members of the class playing the instrument. Particular emphasis is given to the techniques of strong class teaching. Prerequisite: Declared Music major. 1 credit.

MUS-234 Woodwind Methods

Laboratory classes in playing and teaching the woodwind instruments. Flute, oboe, clarinet, saxophone, and bassoon are presented with emphasis on class teaching procedures, positions, and tone production, the care and minor repairs of the instruments. Prerequisite: Declared Music major. Offered alternate years. 1 credit.

MUS-235 Brass Methods

Laboratory classes in playing and teaching trumpet, trombone, baritone, French horn and tuba. Emphasis is placed on class teaching procedures, positions, tone production, and embouchure. Prerequisite: Declared Music major. Offered alternate years. 1 credit.

MUS-236 Percussion Methods

Laboratory classes in playing and techniques for teaching, tuning, and care of idiophones, and membranophones. Prerequisite: Declared Music major. Offered alternate years. 1 credit.

MUS-241 Introduction to World Music

Through lecture, discussion, structured listening and participation, students will explore various music cultures throughout the world including those in Japan, Eastern Europe, Latin America, Africa, Indonesia and India. In addition, the course includes an examination of Afro-American and Native American music as well as other less commonly known North American forms and genres. Also listed as ANTH 241. Counts toward core requirement: International Perspectives. 4 credits.

MUS-255 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

MUS-271 Applied Music: 3rd Sem Private Lessons

Private instruction is available on all band and orchestral instruments, piano, organ, guitar, and voice for all University students, whether they are music majors or minors or not, for an additional fee. The lesson fee is waived for music majors up to the number of credits required for their course of study, provided the major is declared no later than the add/drop date of the term in which the student is registered for lessons; a maximum of 1 credit may be waived per term; waivers are only given for the student's primary instrument. The X71/X72 sequence of courses is proficiency-based using nationally

accepted criteria for advancement through the sequence of levels. Exact course requirements will be indicated on course syllabi and determined by the instructor to best serve the student's individual needs and experience. Music majors and minors taking private instruction are required to participate in the appropriate large ensemble for their primary instrument; and individual daily practice is required. Lessons are letter graded. Applied Music jury exams are required of all Applied Music students at the end of each semester, except MUS 171. Music majors and minors enrolled in Applied Music courses 271 and higher are required to perform in a Student Performance forum (student recital) each semester. Full-hour weekly lessons, earning one credit per semester, are the norm for music majors; half-hour lessons, earning one-half credit, are the norm for music minors. Course credit for full-hour or half-hour lessons is based on twelve lessons per semester. See the Music Department Chair for course section assignment when enrolling for Applied Music for the first time. Prerequisite: MUS 172 with minimum grade of C. 0.5-1 credit.

MUS-272 Applied Music: 4th Sem Private Lessons

Private instruction is available on all band and orchestral instruments, piano, organ, guitar, and voice for all University students, whether they are music majors or minors or not, for an additional fee. The lesson fee is waived for music majors up to the number of credits required for their course of study, provided the major is declared no later than the add/drop date of the term in which the student is registered for lessons; a maximum of 1 credit may be waived per term; waivers are only given for the student's primary instrument. The X71/X72 sequence of courses is proficiency-based using nationally accepted criteria for advancement through the sequence of levels. Exact course requirements will be indicated on course syllabi and determined by the instructor to best serve the student's individual needs and experience. Music majors and minors taking private instruction are required to participate in the appropriate large ensemble for their primary instrument; and individual daily practice is required. Lessons are letter graded. Applied Music jury exams are required of all Applied Music students at the end of each semester, except MUS 171. Music majors and minors enrolled in Applied Music courses 271 and higher are required to perform in a Student Performance forum (student recital) each semester. Full-hour weekly lessons, earning one credit per semester, are the norm for music majors; half-hour lessons, earning one-half credit, are the norm for music minors. Course credit for full-hour or half-hour lessons is based on twelve lessons per semester. See the Music Department Chair for course section assignment when enrolling for Applied Music for the first time. Prerequisite: MUS 271 with minimum grade of C. 0.5-1 credit.

MUS-275 Internship

See department for details. Internship contract required. 1-4 credits.

MUS-280 Accompanying

A basic study of accompanying technique for both instrumental and vocal literature. The course addresses problems of balance, ensemble, texture, and interpretive style. Prerequisite: Declared Music major or minor. May be repeated for credit. 1 credit.

MUS-282 Basics of Conducting

Introduction to conducting gestures, movement and basic analysis of scores for both vocal and instrumental ensembles. Students will conduct other musicians with graded verbal and video feedback from the instructor. Prerequisite: MUS-112. This class is a prerequisite for MUS-482 and/or MUS-483. Offered alternate years. 2 credits.

MUS-284 Teaching Music

This course is designed to serve as the first music education course in the music education curriculum, as well as the survey of concrete applications to all who would like to learn how to incorporate music in their curriculum (preschool and classroom teachers). The course will provide an overview of the theoretical, philosophical, historical, social, and psychological foundations of teaching music. Its practical component will examine developmentally appropriate music teaching approaches from early childhood to adolescence along with the practicalities of motivating students, managing the classroom, and assessing learning outcomes. 4 credits.

MUS-295 Independent Study

See department for details. Independent study contract required. 0-6 credits.

MUS-301 Music in the Elementary School

An examination of techniques and materials for teaching classroom vocal and instrumental music in the elementary school for the prospective music specialist. Emphasis on lesson planning, Orff, Kodaly methods; the rote song, reading-readiness, the reading song, the rhythm program, the listening lesson, and creative music. Observation of music-making in the elementary school classroom and directed teaching. Prerequisite: MUS 112. Offered alternate years. 4 credits.

MUS-302 Music in Secondary Schools (Choral)

Selection and presentation of choral music for the high school and middle school; conducting skills refined; examination of typical problems encountered in high school and middle school ensembles; methods and materials for classroom as well as individual teaching; introduction to basic vocal techniques; curriculum development, and organizational practices. Observation in public schools. Prerequisite: MUS 212 and MUS 282. Offered alternate years. 4 credits.

MUS-303 Music in Secondary Schools (Instrument)

Selection and presentation of instrumental music for the high school; conducting skills; examination of typical problems encountered in high school music ensembles; methods and materials for classroom as well as individual teaching; introduction to basic instrumental techniques; curriculum development, and organizational practices. Observation. Prerequisite: MUS 212 and 282. Offered alternate years. 4 credits.

MUS-310 Orchestration and Arranging

Techniques of scoring and transcribing for various combinations of orchestral and band instruments. Prerequisite: MUS-212. Offered alternate years. 2 credits.

MUS-311 Counterpoint

Intensive studies in contrapuntal techniques and styles, species and modal, as they developed in music history. Prerequisite: MUS-212. Offered on an arrangement basis. 2 credits.

MUS-321 Music History: Antiquity to 1585

A study of musical development beginning in Ancient Greece and including Medieval, Renaissance, and early Baroque periods. Attention will also be given to the relationship among music, the visual arts, and historical events. Prerequisite: MUS 111. Offered Fall semester alternate years. 4 credits.

MUS-322 Music History: 1585-1809

A study of works from the early Baroque to the late Classic. The approach will be similar to that described for MUS-321. Prerequisite: MUS-111. Offered Fall semester alternate years. 4 credits.

MUS-323 Music History: Classic/Romantic

A study of works from the late Classic, though the Romantic to the early 20th century. The approach will be similar to that described for MUS-321. Prerequisite: MUS-112. Offered alternate years. 4 credits.

MUS-324 Music History: The 20th Century

Surveys the major trends in twentieth-century compositional thought and practice: chromatic tonality, atonality, serialism, neo-classicism, nationalism, avant-gardism, etc. Emphasis will be on various composers, approaches to the problems of tonal language. Prerequisite: MUS 112. Offered alternate years. 4 credits.

MUS-326 Song Literature

Surveys the development of the art song, beginning with the troubadour and the trouvère songs of the 13th century and extending through contemporary techniques in the genre. Score study and in-class performance required. An elective course for vocal performance majors/minors. Prerequisite: MUS-272, MUS-323, and MUS-324. Offered Fall semester alternate years. 4 credits.

MUS-327 String Pedagogy and Repertoire

The purpose of this course is to provide students with theoretical and practical foundations of four major beginning/intermediate string pedagogy approaches: Rolland, Suzuki, Havas, and Boronoff. Successful completion of this course will prepare students to effectively teach four bowed string instruments (violin, viola, cello, and double bass) in individual and group educational settings. In addition to pedagogy, students will study varied materials and repertoire for beginning and intermediate string players and groups. Completion of this course is a prerequisite for teaching in Pacific University's String Project. Corequisite: Take MUS 158 or MUS 358. 4 credits.

MUS-341 Music in World Religions

This course will explore the use of music as an important expression of spiritual engagement. Students will participate in an examination of the various liturgical and musical practices found in the five primary world religions including: Christianity, Judaism, Islam, Hinduism and Buddhism. The course will examine how music is used to enhance liturgy, "engage the mind and move the heart" of participants in worship. ENGW 201 and a basic ability to follow musical notation recommended. Also listed as REL 341. Counts toward core requirement: International Perspectives. 4 credits.

MUS-351 Diction for Singers

An introduction to International Phonetic Alphabet and its application to the pronunciation of English, Italian, German, French, and Ecclesiastical Latin. A required course for vocal performance majors. Prerequisite: MUS 171 and 172. Offered Spring semester alternate years. 2 credits.

MUS-352 Advanced Jazz Band

This is an upper-division version of MUS 151. Upper-division options for these practical courses recognize junior and senior students' leadership and advanced contributions to the performance process. A jazz band open to all University students. The band regularly performs with regionally and nationally-known soloists. Repertoire ranges from early jazz and Big Band to Jazz/Rock fusion. Audition required. Prerequisite: Junior standing or above (60 or more completed credits). May be repeated for credit. 0-1 credit.

MUS-353 Advanced Concert Choir

This is an upper-division version of MUS 153. Upper-division options for these practical courses recognize junior and senior students' leadership and advanced contributions to the performance process. Prerequisite: Junior standing or above (60 or more completed credits). May be repeated for credit. 0-1 credit.

MUS-355 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

MUS-358 Advanced Philharmonic Orchestra

This is an upper-division version of MUS 158. Upper-division options for these practical courses recognize junior and senior students' leadership and advanced contributions to the performance process. A large instrumental ensemble open to University students, faculty, staff, and other interested members in the community. The orchestra performs major concerts of standard orchestral literature each semester and for other various events. Prerequisite: Audition and high school level or better ability to play a string, woodwind, brass, or percussion instrument. Prerequisite: Junior standing or above (60 or more completed credits). May be repeated for credit. 0-1 credit.

MUS-359 Advanced Chamber Ensembles

This is an upper-division version of MUS 159. Upper-division options for these practical courses recognize junior and senior students' leadership and advanced contributions to the performance process. Small ensembles of many different instrumentations and voices open to Pacific students, faculty, staff, and other interested members in the community. Works from all periods and of all styles are studied. It is the responsibility of the students to form an appropriate ensemble and arrange for the appropriate faculty member to provide coaching prior to enrolling in the course. Prerequisite: Junior standing or above (60 or more completed credits). May be repeated for credit. 0-1 credit.

MUS-363 Advanced Chamber Singers

This is an upper-division version of MUS 163. Upper-division options for these practical courses recognize junior and senior students' leadership and advanced contributions to the performance process. A select mixed ensemble that performs regularly both on and off campus. Open to all students. Rehearsal and performance of choral literature from the Renaissance to the present. Three to five major performances per year, plus participation in choral festivals and tour on alternate years. Audition required. Prerequisite: Junior standing or above (60 or more completed credits). May be repeated for credit. 0-1 credit.

MUS-365 Advanced Symphonic Band

This is an upper-division version of MUS 165. Upper-division options for these practical courses recognize junior and senior students' leadership and advanced contributions to the performance process. A large instrumental ensemble open to University students, faculty, staff, and other interested members in the community. The band performs major concerts of standard wind ensemble literature each semester and for other various events. Prerequisite: Junior standing or above (60 or more completed credits) and high school level or better ability to play a wind or percussion instrument. May be repeated for credit. 0-1 credit.

MUS-367 Advanced Jazz Choir

This is an upper-division version of MUS 167. Upper-division options for these practical courses recognize junior and senior students' leadership and advanced contributions to the performance process. This ensemble is a performance outlet for singers, both music majors and non-majors, who wish to explore jazz from a vocal perspective. Performances will be both on and off campus, and participation in Northwest vocal jazz festivals is also planned. Audition required. Prerequisite: Junior standing or above (60 or more completed credits). May be repeated for credit. 0-1 credit.

MUS-371 Applied Music: 5th Sem Private Lessons

Private instruction is available on all band and orchestral instruments, piano, organ, guitar, and voice for all University students, whether they are music majors or minors or not, for an additional fee. The lesson fee is waived for music majors up to the number of credits required for their course of study, provided the major is declared no later than the add/drop date of the term in which the student is registered for lessons; a maximum of 1 credit may be waived per term; waivers are only given for the student's primary instrument. The X71/X72 sequence of courses is proficiency-based using nationally accepted criteria for advancement through the sequence of levels. Exact course requirements will be indicated on course syllabi and determined by the instructor to best serve the student's individual needs and experience. Music majors and minors taking private instruction are required to participate in the appropriate large ensemble for their primary instrument; and individual daily practice is required. Lessons are letter graded. Applied Music jury exams are required of all Applied Music students at the end of each semester, except MUS 171. Music majors and minors enrolled in Applied Music courses 271 and higher are required to perform in a Student Performance forum (student recital) each semester. Full-hour weekly lessons, earning one credit per semester, are the norm for music majors; half-hour lessons, earning one-half credit, are the norm for music minors. Course credit for full-hour or half-hour lessons is based on twelve lessons per semester. See the Music Department Chair for course section assignment when enrolling for Applied Music for the first time. Prerequisite: MUS 272 with minimum grade of C. 0.5-1 credit.

MUS-372 Applied Music: 6th Sem Private Lessons

Private instruction is available on all band and orchestral instruments, piano, organ, guitar, and voice for all University students, whether they are music majors or minors or not, for an additional fee. The lesson fee is waived for music majors up to the number of credits required for their course of study, provided the major is declared no later than the add/drop date of the term in which the student is registered for lessons; a maximum of 1 credit may be waived per term; waivers are only given for the student's primary instrument. The X71/X72 sequence of courses is proficiency-based using nationally accepted criteria for advancement through the sequence of levels. Exact course requirements will be indicated on course syllabi and determined by the instructor to best serve the student's individual needs and experience. Music majors and minors taking private instruction are required to participate in the appropriate large ensemble for their primary instrument; and individual daily practice is required. Lessons are letter graded. Applied Music jury exams are required of all Applied Music students at the end of each semester, except MUS 171. Music majors and minors enrolled in Applied Music courses 271 and higher are required to perform in a Student Performance forum (student recital) each semester. Full-hour weekly lessons, earning one credit per semester, are the norm for music majors; half-hour lessons, earning one-half credit, are the norm for music minors. Course credit for full-hour or half-hour lessons is based on twelve lessons per semester. See the Music Department Chair for course section assignment when enrolling for Applied Music for the first time. Prerequisite: MUS 371 with minimum grade of C. 0.5 -1 credit.

MUS-391 Piano Literature

A chronological study of standard and lesser known works for solo piano, from pre-Bach to the present. Consideration of editions and library techniques included along with regular short performances by class members. Prerequisite: piano major or minor. 2 hours.

MUS-394 Junior Recital

Candidates for the degree of Bachelor of Arts in Music Performance are required to research and perform one-half of a recital (one-half hour minimum). This course is also open to other majors and to qualified non-majors enrolled in Performance Studies. 1 credit.

MUS-395 Independent Study

See department for details. Independent study contract required.

MUS-413 Composition

Techniques of composition and arranging for various combinations of instruments and voices. Prerequisite: MUS 212. May be repeated for credit. 1 credit.

MUS-428 History of Singing on Stage

A comprehensive study tracing the development of opera and music drama through analysis, listening, and performance attendance. The course will concentrate on works beginning with Claudio Monteverdi and continue through modern innovations in the genre. An elective class for music majors/minors. Prerequisite: MUS 112, 323, and 324. Offered Fall semester alternate years. 4 credits.

MUS-471 Applied Music: 7th Sem Private Lessons

Private instruction is available on all band and orchestral instruments, piano, organ, guitar, and voice for all University students, whether they are music majors or minors or not, for an additional fee. The lesson fee is waived for music majors up to the number of credits required for their course of study, provided the major is declared no later than the add/drop date of the term in which the student is registered for lessons; a maximum of 1 credit may be waived per term; waivers are only given for the student's primary instrument. The X71/X72 sequence of courses is proficiency-based using nationally accepted criteria for advancement through the sequence of levels. Exact course requirements will be indicated on course syllabi and determined by the instructor to best serve the student's individual needs and experience. Music majors and minors taking private instruction are required to participate in the appropriate large ensemble for their primary instrument; and individual daily practice is required. Lessons are letter graded. Applied Music jury exams are required of all Applied Music students at the end of each semester, except MUS 171. Music majors and minors enrolled in Applied Music courses 271 and higher are required to perform in a Student Performance forum (student recital) each semester. Full-hour weekly lessons, earning one credit per semester, are the norm for music majors; half-hour lessons, earning one-half credit, are the norm for music minors. Course credit for full-hour or half-hour lessons is based on twelve lessons per semester. See the Music Department Chair for course section assignment when enrolling for Applied Music for the first time. Prerequisite: MUS 372 with minimum grade of C. 0.5-1 credit.

MUS-472 Applied Music: 8th Sem Private Lessons

Private instruction is available on all band and orchestral instruments, piano, organ, guitar, and voice for all University students, whether they are music majors or minors or not, for an additional fee. The lesson fee is waived for music majors up to the number of credits required for their course of study, provided the major is declared no later than the add/drop date of the term in which the student is registered for lessons; a maximum of 1 credit may be waived per term; waivers are only given for the student's primary instrument. The X71/X72 sequence of courses is proficiency-based using nationally accepted criteria for advancement through the sequence of levels. Exact course requirements will be indicated on course syllabi and determined by the instructor to best serve the student's individual needs and experience. Music majors and minors taking private instruction are required to participate in the appropriate large ensemble for their primary instrument; and individual daily practice is required. Lessons are letter graded. Applied Music jury exams are required of all Applied Music students at the end of each semester, except MUS 171. Music majors and minors enrolled in Applied Music courses 271 and higher are required to perform in a Student Performance forum (student recital) each semester. Full-hour weekly lessons, earning one credit per semester, are the norm for music majors; half-hour lessons, earning one-half credit, are the norm for music minors. Course credit for full-hour or half-hour lessons is based on twelve lessons per semester. See the Music Department Chair for course section assignment when enrolling for Applied Music for the first time. Prerequisite: MUS 471 with minimum grade of C. 0.5-1 credit.

MUS-475 Internship

See department for details. Internship contract required.

MUS-482 Instrumental Conducting

A detailed study of conducting techniques and instrumental rehearsal procedures. The approach will be through music analysis, and will include beat patterns, body movements, and baton technique. Students will work with instrumental ensembles and conduct a work in concert. Prerequisite: MUS-212 and MUS-282. Offered alternate years. 2 credits.

MUS-483 Choral Conducting

A study of conducting techniques and choral rehearsal procedures to include the teaching of vocal production, breathing, diction, basic musicianship, and performance. Choral literature for ensembles of various age groups and experience will also be examined. In-class conducting and observation of choral performances. Score study. Prerequisite: MUS 212 and MUS 282. Corequisite: MUS 353 or MUS 363. Offered alternate years. 2 credits.

MUS-490 Introduction to Vocal Pedagogy

Laboratory classes in singing and teaching of voice. Emphasis is placed on class teaching procedures, tone production, and healthy singing techniques. Offered Spring semester alternate years. 4 credits.

MUS-491 Piano Pedagogy

Provides pianists with the skills to teach reading, techniques, and basic musical expression to beginning, intermediate, or advanced piano students. Prerequisite: Declared Music major or minor. 2 credits.

MUS-494 Senior Recital

Candidates for the degree of Bachelor of Arts in Music Performance are required to research and perform a full-length public recital of music (one hour minimum) from various periods during their senior year. Open to other students enrolled in Applied Music only with approval of the Music Department. Prerequisite: Declared Music major or minor. Corequisite: MUS 471 or MUS 472. 2 credits.

MUS-495 Music Capstone

The culminating event in undergraduate music study, Music Capstone is typically a half recital, meeting requirements similar to those of MUS 494. In consultation with the Music faculty, other formats such as lecture-recital, demonstrations, composition, or written thesis may be acceptable. Prerequisites: Senior standing (90 or more completed credits). Corequisite: MUS 471 or 472. Instructor's consent required. 2 credits.

OUTDOOR LEADERSHIP

Philip Friesen, Samuel Morrison

Outdoor Leadership Minor

The academic home of the Outdoor Leadership (OL) minor is with Exercise Science. The aim of the OL minor is to prepare individuals to lead others in backpacking, canoeing, kayaking and/or rock climbing activities. Training in generalizable leadership skills (e.g., judgment, group facilitation and risk management) that can be used throughout life will be provided. Students interested in this pursuit should consult with the the Phil Friesen (Outdoor Pursuits Director) or the chair of the Exercise Science department as early as possible, as this program requires at least 2 years. The credits required can vary (18-33 credits) due to course selection options and the possibility to test out of certain requirements.

Program Learning Outcomes

A student completing a minor in Outdoor Leadership will demonstrate the ability to:

- Assess and manage risks involved in leading others in wilderness setting
- Apply experiential education theory toward the development of participants' skills in a variety of outdoor adventure activities.
- Design and implement an expedition plan for an outdoor adventure to allow others to experience a sense of discovery.
- Explain the interconnection between outdoor education, sustainability and our daily lives.
- Provide pertinent feedback to others and develop self-awareness of one's own abilities and limits in this field.
- Value diversity through intense and sustained adventures that encourage people to understand different perspectives, beliefs and backgrounds.

Outdoor Leadership: Requirements for the Minor

Complete all of the following:

HPER 157	Outdoor Recreation*	1 credit
OL 107	Wilderness First Responder*	2 credits
OL 207	Intro to Outdoor Leadership	2 credits
OL 307	Applied Outdoor Leadership	4 credits
OL 407	Outdoor Leadership Seminar	1 credit

Complete one of the following:

OL 475	Internship	2-4 credits
OL 395	Independent Study	2-4 credits

Complete one of the following course pairings:

HPER 158	Rock Climbing	1 credit
AND		
OL 308	Rock Climbing Instruction	2 credits
HPER 159	Introduction to Kayaking	1 credit
AND		
OL 309	Coastal Sea Kayaking Instructor	2 credits

Complete one of the following (Environmental & Sustainability Awareness):

ENV 121	Our Global Environment	4 credits
ENV 200	Intro Environmental Science	4 credits
ENV 260	Oregon Natural History	4 credits
ENV 321	Environmental Ethics	4 credits
HIST/ENV 441	Environmental History	4 credits
POLS 224	Environmental Politics	4 credits
ECON 333	Environmental Economics	4 credits
PSY 313	Environmental Psychology	4 credits
PH 320	Environmental Health	4 credits

Complete one of the following (Working with Diverse Populations):

SOC 208	Race: Inequality and Identity	4 credits
SOC 360	Critical Race Theory	4 credits
GSS 200	Introduction to Queer Studies	4 credits
GSS 201	Intro Gender and Sexuality Studies	4 credits
GSS/PSY 261	Psychology of Gender	4 credits
GSS/SOC 217	Gender and Sexuality	4 credits
ENGL 221	Disability and Literature	4 credits
HIST 245	Race in Modern America	4 credits
PSY 358	Psychology of Ethnic Diversity in the US	4 credits
PHIL 240	Human Rights (cross-listed as PSJ 240)	2 credits
ENGW 202	Writing About Disability	4 credits
DS 204	Working with People with Disability	4 credits
DS 200	Intro to Disability Studies	2 credits
PSJ 227	Civil Right Movement	4 credits

TOTAL: 18-33 credits*

* Note that the credit range is attributable to course choices used to meet requirements and also the possibility to demonstrate HPER157 and/or OL107 knowledge and skills via non-credit routes.

COURSES

OL-107 Wilderness First Responder

Through lecture, lab and practical application, students will be introduced to the necessary skills for assessing and treating common medical problems in remote settings. The methods and common practices for wilderness medicine introduced in this course give students both a competency for treating injuries and illness and the experience that improves judgment which may prevent potential incidents. Successfully completing this course also offers a two year certification by the Wilderness Medicine Training Center. Additional course fees apply. Pass/No Pass. 2 credits.

OL-155 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

OL-195 Independent Study

See department for details. Independent study contract required.

OL-207 Introduction to Outdoor Leadership

Introduction to the principles and practices of leading others outdoors. Focus on effective outdoor living skills, communication skills, understanding what a functional group looks like, facilitating group debriefs and having fun outdoors. Students will learn how to teach the following outdoor living skills using experiential education pedagogy: cooking, shelter building, weather prediction, navigation, equipment use & maintenance, clothing selection, travel techniques and health & sanitation. The instructor will model planning and effectively implementing the logistics for leading a weekend outdoor excursion. This class is for anyone interested in developing basic outdoor leadership skills. Participation fee required. The fee is used for class outings (i.e. transportation, food, campsites and permits). If a student drops or withdraws from the class after some expenses have been accrued the student will be responsible for those expenses. Prerequisite: HPER 157. 2 credits.

OL-255 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

OL-295 Independent Study

See department for details. Independent study contract required.

OL-307 Applied Outdoor Leadership

Focuses on developing students' judgment, decision making and critical thinking skills to facilitate leading others on outdoor trips. Uses case studies and student-led trips with instructor supervision to increase students' ability to handle challenging outdoor leadership experiences. Risk management, planning & logistics, leadership, environmental integration and teaching skills are developed. Content includes facilitating challenge experiences and group decision making. Involves weekend outdoor trips where these skills are applied, one of which is a required 9-day outing. Participation fee required to support special costs of class outings (e.g., transportation, food, campsites and permits). If a student drops or withdraws after some expenses have been accrued the student will be responsible for those. Prerequisite: OL 207 with minimum grade C-. 4 credits

OL-308 Rock Climbing Instructor

Students will develop their ability to lead single pitch sport climbs and traditional climbs. Students will learn how to manage the group climbing site, teach climbing movement, build traditional anchors, rappel, clean routes and coach trip participants. Prerequisite: Pass HPER-158 and OL-107, and complete OL-207 with minimum grade of C-. 2 credits.

OL-309 Kayaking Instructor

This course builds on fundamental white- and flat- water kayaking skills and introduces the student to group management on the water and navigation in more challenging waters. Mastery of chart and compass use, boat handling skills, multiday trip planning, and an eskimo roll are also addressed. Previous kayaking experience required. Prerequisite: HPER-159 and OL-107; and OL-207 with minimum grade of C-. 2 credits

OL-395 Independent Study

See department for details. Independent study contract required.

OL-407 Outdoor Leadership Seminar

This course will help students synthesize the principles, practices, theories, ethics and philosophy presented throughout the pursuit of the Outdoor Leadership minor. It will also look at how leadership skills learned in the minor can be applied to future professions in the outdoors and within other careers. Participation fee required. The fee is used for class outings (i.e. transportation, food, campsites and permits). If a student drops or withdraws from the class after some expenses have been accrued the student will be responsible for those expenses. Prerequisite: OL 307 with minimum grade C-. 1 credit.

OL-475 Internship

See department for details. Internship contract required.

PACU

COURSES

PACU-100 Voyages

A variety of frontcountry, wilderness and social justice Voyage experiences are offered. Each Voyage combines a pre-Orientation adventure with an eight-week course that focuses on increasing conflict resolution skills, resilience, goal setting, and the effective use of campus resources. Pass/No Pass. 0-1 credit.

PACU-110 Passport for Sustainability

Sustainability means long-term cultural, ecologic and economic health and vitality. Sustainability is about actions that are ecologically sound, economically viable, and socially just and humane. This course will meet once per week during the spring semester. A variety of speakers (faculty from the College of Arts and Sciences, and outside speakers) will present material that focuses on sustainability. Faculty presentations/discussions will focus on how sustainability is addressed from their specific discipline. 1 credit.

PACU-146 Luau Company

Luau production activities (dance, music, technical). Minimum contribution of 30 documented hours. May be repeated for credit. Up to 8 activity credits may count toward the 124 credits required for graduation. Pass/No Pass. 1 credit.

PACU-155 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

PACU-200 Career Exploration

Helps students critically examine and articulate career interests, individual strengths/skills, and work values related to the demands of various professions. Includes opportunities for students to engage in exploration of how their academic work and major areas of study may be aligned with their career plans. Pass/No Pass. 2 credits.

PACU-255 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

PACU-395 Independent Study

See department for details.

PEACE AND SOCIAL JUSTICE

Jules Boykoff, Alyson Burns-Glover, Chuck Currie, Ramona Ilea, Larry Lipin, Martha Rampton, Stephanie Stokamer, Jay Cee Whitehead

The Peace and Social Justice (PSJ) program is not accepting students at this time.

The PSJ program and curriculum evolved from student and faculty interest and concern. This is an interdisciplinary minor comprised of courses that address program issues and themes. They investigate the causes and manifestations of social injustice and violence in self, in society, and in the world of nations and explore alternatives to violent resolution of conflict. Students are encouraged to develop a closely reasoned philosophical position on peace and social justice that can have lifelong application.

Peace and Social Justice: Requirements for the Minor

PSJ 101	Introduction to Peace and Social Justice	4 credits
PSJ/CIV 105	Introduction to Civic Engagement	2 credits
PSJ 215	Conflict Resolution	2 credits

One course from:

PSJ/CIV 305	Advanced Civic Engagement	2 credits
PSJ/CIV 315	Civic Engagement Mentoring	2 credits

Additional elective courses with a PSJ prefix (at least 6 credits of which must be from upper-division) 8 credits

TOTAL: 18 credits

PHILOSOPHY

Ramona Ilea, Chair; David DeMoss, Katharine Loevy, Ian O'Loughlin

The Department of Philosophy seeks to acquaint students with various philosophical traditions, to present the chief philosophic problems and types of Philosophy, and to help students cultivate the intellectual, civic, and moral virtues of the discipline of Philosophy as well as the art and skill of philosophical analysis.

The department seeks to serve those students who intend to pursue graduate studies, those pursuing interdisciplinary career programs, and those who simply desire to understand human reflective traditions in order to enlarge their own horizon of awareness.

Majors are educated in the liberal arts tradition and are carefully counseled to take courses in all areas of the College. Majors in the Ethics, Society, and Law track focus on issues in applied ethics.

100- and 200-level courses are open to all students. 300-level courses are open to upper-division students, though prior lower-division coursework is recommended. 400-level courses generally require instructor approval. Courses in a foreign language are recommended.

Policy on Independent Study (Learning Contract): Independent study courses should be rare, only to be contracted in special circumstances for advanced study in subjects not covered by regular courses. No more than six credits of independent study may be counted toward a major in Philosophy, and no more than three credits toward a minor.

We pride ourselves on preparing students who intend to pursue graduate studies and interdisciplinary career programs; graduating majors and minors should be able to seek and obtain admission to graduate school, if that is their realistic goal, or find a job that will begin their chosen career track; they should also be able to reflect on philosophically and express clearly their own goals and choices at this stage in their lives.

The department strives to help students cultivate the intellectual, civic, and moral virtues of the discipline of Philosophy--for example, intellectual integrity, objectivity, resilience in the face of obstacles and daunting problems, a commitment to consistency, a knack for seeing and articulating what issues are at stake, the courage to cross-examine opinions that one holds dear, respect for interlocutors and colleagues, a felt obligation to contribute to one's community.

Program Learning Outcomes

As a department, our goal is to educate our students with respect to the history, interpretive frameworks, and analytical techniques of the discipline of Philosophy; given this goal, graduating majors should be able to:

- exhibit a general understanding of the history and development of Philosophy and a specific understanding of some portion of that history
- describe and critique several of the most important historical and contemporary interpretive frameworks used in the discipline of Philosophy (for example, Plato's Theory of Forms, the utilitarian approach to ethics, and the existentialist analysis of the human condition)
- apply the analytical techniques of the discipline of Philosophy (for example, by presenting orally and in writing succinct analyses of philosophical texts and coherently structured arguments in defense of their own philosophical claims).

Philosophy: Requirements for the Major

PHIL 100	Introduction to Philosophy	
OR		
PHIL 202	Ethics and Society	4 credits
PHIL/MATH 212*	Language and Logic	4 credits
Two courses from PHIL 205, 206, 207, 208*		8 credits
PHIL 494/495	Senior Seminar	4 credits
Upper-division electives in Philosophy		12 credits
Additional Philosophy courses (200 or above)		
OR		
Courses from the following list totaling 4 credits:		4 credits
PSJ 240	Human Rights (2 credits)	
HUM 339	History of Science	
PSY 315	Cognitive Science	
PSY 226	History & Systems of Psychology	
POLS 209	Ideas in Action: Political Philosophy and Modern Society	
SOC 414	Sociological Theory	

TOTAL: 36 credits

*Majors must take PHIL 212 and one course from PHIL 205, 206, 207, 208 before the senior year; these courses are a prerequisite for PHIL 494 Senior Seminar.

Philosophy: Ethics, Society and Law Track: Requirements for the Major

PHIL 202 Ethics and Society	4 credits	
PHIL/MATH 212*	Language and Logic	4 credits
One course from PHIL 205, 206, 207, 208*		4 credits
Courses from the following list totaling 12 credits		12 credits
HUM 221	Ethics and Civic Engagement (2 credits)	
PHIL 221	Sports Ethics (2 credits)	
PHIL 305	Asian Philosophy	
PHIL 307	Ethics, Medicine & Health Care	
PHIL 315	Philosophy of Law	
PHIL 321	Environmental Ethics	
PHIL 322	Animal Ethics	
PHIL 405	Topics in Moral Philosophy (2 credits)	
PSJ 240	Human Rights (2 credits)	
Additional Philosophy courses, not from the above list totaling 4 credits		4 credits
PHIL 494/495 Senior Seminar	4 credits	

Courses in political science from the following list totaling 4 credits	4 credits
POLS 222	Civil Rights Movement (2 credits)
POLS 224	Environmental Politics
POLS 226	The Politics of Surveillance
POLS 209	Ideas in Action: Political Philosophy and Modern Society
POLS 321	Protest, Dissent, and Social Change
POLS 322	The Suppression of Dissent
POLS 325	Constitutional Law
POLS 326	Civil Liberties
POLS 340	Security, Rights, and Globalization

TOTAL: 36 credits

*Majors must take PHIL 212 and one course from PHIL 205, 206, 207, 208 before the senior year; these courses are a prerequisite for PHIL 494 Senior Seminar.

Philosophy: Requirements for the Minor

PHIL 100	Introduction of Philosophy	
OR		
PHIL 202	Ethics and Society	4 credits
PHIL/MATH 212	Language and Logic	4 credits
One course from PHIL 205, 206, 207, 208		4 credits
Upper-division electives in Philosophy		8 credits

TOTAL: 20 credits

COURSES

PHIL-100 Introduction to Philosophy

An introduction to philosophical issues in epistemology, metaphysics, and value theory including such topics as the nature and sources of knowledge, freedom and determinism, the relation of mind and body, personal identity, the relation of knowledge and values. Offered annually. 4 credits.

PHIL-155 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

PHIL-202 Ethics and Society

An introduction to ethical theories and their application to a variety of moral problems and contemporary ethical issues. We will pay special attention to questions of personal conduct. How should I live? How do my personal choices affect society? What values should guide my decision-making? What would it mean for me to live an ethical life? Offered annually. Counts toward core requirement: Civic Engagement. 4 credits.

PHIL-205 Ancient Philosophy

A study of the major issues and personalities that constituted and shaped early western thought, from the pre-socratics (sixth century BCE) through the Hellenistic and Roman era (fourth century CE). Offered alternate years. 4 credits.

PHIL-206 Medieval Philosophy

A study of the major issues and personalities that constituted and shaped medieval western thought from the fourth century through the fifteenth century. Offered alternate years. 4 credits.

PHIL-207 Early Modern Phil 1500-1750

A study of the major issues and personalities that constituted and shaped modern western thought from the sixteenth century through the eighteenth century. Offered alternate years. 4 credits.

PHIL-208 Late Modern Phil 1750-1900

A study of the major issues and personalities that constituted and shaped modern western thought from the mid-eighteenth century through the nineteenth century. Offered alternate years. 4 credits.

PHIL-212 Language and Logic

A survey of formal syntactic and semantic features of language, including topics such as sentential logic, predicate logic, axiomatic systems and set theory, and nonclassical extensions such as multivalued logics. Also listed as MATH 212. Does not meet Humanities core requirement (2010 catalog). Offered annually. 4 credits.

PHIL-221 Sports Ethics

This course examines the principles of ethical reasoning as applied to sport. Issues relevant to a wide range of areas in competitive and recreational sport are covered, such as moral reasoning, sportsmanship and gamesmanship, sport violence and intimidation, commercialization, racial and gender equity, as well as technological and ergogenic aids. 2 credits.

PHIL-240 Human Rights

This course offers an in-depth investigation of conceptual and political issues related to rights and human rights, including such issues as the source and extent of rights, the nature of rights-bearers, the justification of rights claims, the legitimacy and means of implementing universal human rights and critiques and evaluations of the social role of rights. Also listed as PSJ 240. 2 credits.

PHIL-255 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

PHIL-275 Internship

See department for details. Internship contract required. 1-4 credits.

PHIL-295 Independent Study

See department for details. Independent study contract required.

PHIL-304 Philosophy of Art

An investigation of the arts, including such topics as the nature of art, the metaphysics of art (e.g., form, expression, art as process vs. art as object) the epistemology of art (e.g., the locus of meaning in art, what constitutes artistic understanding, can art be "true"), and the axiology of art (e.g., art and morals, the social significance of art, how can art be evaluated). Besides general philosophical issues connected to art, particular arts will be considered (e.g., painting, dance, music, theatre, film, architecture). Prerequisite: Sophomore standing or above (30 or more completed credits). Offered alternate years. 4 credits.

PHIL-305 Asian Philosophy

A study of Asian philosophical texts both historical and contemporary from various cultures, focusing for example on the Hinduism of India, the Taoism of China, and the Zen Buddhism of Japan. Prerequisite: Sophomore standing or above (30 or more completed credits). Counts toward core requirement: Comparative Cultural or International Perspectives. Offered alternate years. 4 credits.

PHIL-307 Ethics, Medicine & Health Care

A study of some ethical issues connected with medicine and health care: medical fallibility, cultural sensitivity in medical services, disability issues, economic and social inequalities, cultural relativism & medical intervention, racism, global health problems, and pharmaceutical issues. Also listed as DS 307. Prerequisite: Sophomore standing or above (30 or more completed credits). 4 credits.

PHIL-309 Philosophy of Religion

An investigation of the nature of religion and the truth of religious claims as interpreted by both historical and contemporary philosophers and theologians. Topics may include among others: the existence and nature of God, the quality and significance of religious experiences, and the origins of religion as a natural phenomenon. Prerequisite: Sophomore standing or above (30 or more completed credits). 4 credits.

PHIL-310 Philosophy of Science

An investigation of issues and concepts within science and about science, including such topics as the nature of explanation, the nature of confirmation, the nature of scientific progress, the relations among science, technology, values and society. Prerequisite: Sophomore standing or above (30 or more completed credits). Offered alternate years. 4 credits.

PHIL-314 Philosophy of Mind

An investigation of the nature of mind and consciousness as interpreted by contemporary philosophers of mind. What is consciousness? Who has it? How is it produced? Prerequisite: Sophomore standing or above (30 or more completed credits). Offered alternate years. 4 credits.

PHIL-315 Philosophy of Law

An introduction to philosophical issues within and about law, including such topics as the nature of law, legal reasoning, liberty/rights and the limits of law, the nature of legal responsibility, the nature and justification of legal punishment. Prerequisite: Sophomore standing or above (30 or more completed credits). Offered alternate years. 4 credits.

PHIL-321 Environmental Ethics

A study of the key concepts in environmental ethics, such as biodiversity loss, corporate responsibility, animal rights, over-population, and environmental racism. Also listed as ENV 321. Prerequisite: Sophomore standing or above (30 or more completed credits). 4 credits.

PHIL-322 Animal Ethics

An investigation of the relationship between human and non-human animals. What is the moral standing of non-human animals? We will study both the theoretical and practical facets of this question by focusing on the ethical dilemmas and practices involving animals, including animal experimentation, factory farming, and companion animals. Also listed as ENV 322. Prerequisite: Sophomore standing or above (30 or more completed credits). Offered alternate years. 4 credits.

PHIL-343 Studies in Criticism & Theory

A study and application of some of the critical and theoretical approaches used in the study of literature. Also listed as ENGL 343. Prerequisite: 2 credits of 200-level ENGL. Offered alternate years. 4 credits.

PHIL-355 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

PHIL-395 Independent Study

See department for details. Independent study contract required.

PHIL-403 Twentieth Century Philosophy

An intensive study of the major issues and personalities in twentieth-century philosophy, in such movements and schools as pragmatism, existentialism, phenomenology, positivism, linguistic analysis, structuralism, poststructuralism, and critical theory. Prerequisite: PHIL 208 plus one other course in the history of philosophy: PHIL 205, PHIL 206, or PHIL 207. Offered intermittently. 4 credits.

PHIL-405 Topics in Moral Philosophy

An intensive study in a specific topic in moral philosophy. Prerequisite: PHIL 202. Offered alternate years. 2 credits.

PHIL-420 Seminar in Philosophy

A concentrated study of various issues in philosophy, including such topics as philosophy of language, advanced logic, aesthetics, environmental ethics, moral philosophy, in-depth analysis of particular works or philosophers, etc. Prerequisite: 10 credits in PHIL courses. Offered intermittently. 4 credits.

PHIL-475 Internship

See department for details. Internship contract required. 0-12 credits.

PHIL-494 Senior Seminar I

Required of all philosophy majors in the fall of the senior year; in the spring majors are required to enroll in PHIL 495. The purpose of this seminar is to prepare the student to produce a philosophical essay of significant length and quality, a senior thesis. This project will require researching, writing, defending, and perhaps publishing the essay. In PHIL 494 students will research and prepare a substantial prospectus for the senior thesis; students will also read, discuss and critique the work of other members of the seminar. Prerequisite: 18 credits in philosophy, PHIL-212, and one course in the history of PHIL (PHIL-205, PHIL-206, PHIL-207, or PHIL-208), each with a C- or better. Offered annually in the fall term. 2 credits.

PHIL-495 Senior Seminar II

Required of all philosophy majors in the senior year; in the fall majors are required to enroll in PHIL 494. The purpose of this seminar is for each student to produce a philosophical essay of significant length and quality, a senior thesis. This project will require researching, writing, defending, and perhaps publishing the essay. In PHIL 495 students will write and defend the senior thesis; students will also read, discuss, and critique the work of other members of the seminar. Prerequisite: PHIL 494. Instructor's consent required. Offered Spring semester. 2 credits.

PHYSICS

Andrew Dawes, Chair; James Butler, Stephen Hall

The program in physics is designed to prepare students for a variety of career paths including (but not limited to) physics and engineering graduate study, teaching, and direct entry into industry. Physics students gain practical experience through hands-on projects in classes, as well as a senior capstone research project or professional internship. Facilities are available for student research in nonlinear optics, condensed-matter physics, and nuclear physics. The majority of our graduates goes to graduate school in physics and related fields or take engineering-related positions in technical industries.

The Physics program consists of a core set of courses plus additional courses organized by emphasis. Students choose the emphasis that best matches their personal goals.

Currently, the emphases we offer are:

- Traditional Physics, meant for students interested in pursuing careers in applied physics and engineering, or graduate study in physics, engineering, or professional fields, or teaching
- Environmental Science, meant for students interested in pursuing careers or graduate study in areas that combine technical knowledge with environmental issues, such as environmental engineering or alternative energy.

Program Learning Outcomes

Upon successful completion of a major in physics, students will be able to:

- Demonstrate conceptual understanding of fundamental physics principles
- Communicate physics reasoning in oral and in written form
- Solve physics problems using qualitative and quantitative reasoning including sophisticated mathematical techniques
- Conduct independent research or work successfully in a technical position.

Physics: Requirements for the Major

Physics Core (required for all majors):

PHY 232-242	General Physics I-II	8 credits
OR		
PHY 202-204	Introductory Physics I-II	8 credits
PHY 322	Modern Physics with Health Applications	4 credits
PHY 332	Waves and Optics	4 credits
PHY 470	Advanced Analysis in Physics	2 credits
PHY 491-493	Physics Capstone	4 credits
MATH 226-228	Calculus I-III	12 credits
CHEM 220-230	General Chemistry I-II	8 credits
OR		
CS 150-250	Introduction to Computer Programming	8 credits
OR		
CHEM 220	General Chemistry I	4 credits
AND		
CS 150	Introduction to Computer Programming	4 credits

TOTAL: 42 Credits

Traditional Physics Emphasis:

PHY 410	Classical Mechanics: Dynamics	4 credits
PHY 420	Quantum Mechanics	4 credits
PHY 460	Electric and Magnetic Fields	4 credits
PHY 300-400-level electives		8 credits

TOTAL: 20 Credits

TOTAL including Physics Core: 62 Credits

Environmental Science Emphasis:

PHY 410	Classical Mechanics: Dynamics	4 credits
OR		
PHY 420	Quantum Mechanics	4 credits
OR		
PHY 460	Electric and Magnetic Fields	4 credits
PHY 384	Thermodynamics and Statistical Mechanics	4 credits
PHY 300-400-level elective		4 credits
ENV 200	Intro to Environmental Science	4 credits
ENV 330	Ecosystems and Ecological Design	4 credits
ENV 300-400-level elective		4 credits
OR		
PHY 325	Modern Topics in Physics: Environmental Physics	4 credits

TOTAL: 24 credits

TOTAL including Physics Core: 66 Credits

Health Professions Emphasis:

PHY 410	Classical Mechanics: Dynamics	4 credits
OR		
PHY 420	Quantum Mechanics	4 credits
OR		
PHY 460	Electric and Magnetic Fields	4 credits

PHY 300-400-level electives	8 credits
Approved 300-400 electives from BIO, CHEM, or EXIP	8 credits

TOTAL: 20 Credits
TOTAL, including Physics Core: 62 Credits

Engineering Physics Emphasis:

PHY 410	Classical Mechanics: Dynamics	4 credits
OR		
PHY 420	Quantum Mechanics	
OR		
PHY 460	Electric and Magnetic Fields	
Engineering credits transferred from an approved program*		24 credits

TOTAL: 28 credits
Required from Physics Core: 36**
TOTAL: 64 Credits

* A minimum of 24 semester credits in engineering courses in an approved engineering program at another institution will be transferred back to Pacific University and counted towards the completion of the physics degree. Approved coursework taken at the engineering institution along with an approved public presentation will satisfy the requirements for the Senior Capstone. Of the courses used to satisfy the major, at least 28 CR must be at the 300 or 400 level, or equivalent, with at least 4 of these credits at the 400-level, or equivalent.

** PHY 470, Advanced Analysis in Physics; and PHY 491 & 993, Capstone are omitted.

All physics majors are strongly encouraged to take MATH 311 (Differential Equations) and CS 150 (Introduction to Computer Science). Students also are encouraged to take other courses in Math and CS depending on their interests.

Students who are planning a career teaching physical science at the high school level may, with prior department approval, substitute either HUM 339 (History of Science) or PHIL 310 (Philosophy of Science) for four of the required upper-division elective credits. Students planning a teaching career also have the opportunity to gain valuable teaching experience by serving as teaching assistants for lower division courses.

Because there are so many possible career paths for physics majors, we would like to offer some recommendations for upper -division electives (of which 8 credits are required for the major). Below are suggestions for electives that provide pathways for students to follow toward some common career goals. However, each student has unique interests; please discuss yours with a member of the department to develop a personalized selection of courses

Graduate School in Physical Science:

- Relativity I & II
- Thermodynamics and Statistical Mechanics
- Modern Topics in Physics
- Electronics

Optics/Optometyry:

- Modern Topics in Physics
- Electronics

Engineering/Applied Science/Health Science Careers:

- Electronics
- Engineering Mechanics: Statics I & II
- Thermodynamics and Statistical Mechanics

Teaching Physical Science in High School:

- Relativity I & II
- Thermodynamics and Statistical Mechanics
- History of Science
- Philosophy of Science

Applied Physics: Requirements for the Minor

Students interested in an Applied Physics minor should consult with a faculty member in the Department of Physics. The minor in Applied Physics is designed for students interested in employment in the hi-tech industry or in engineering. It can be used toward completion of the Applied Science major.

MATH 226-227	Calculus I-II	8 credits
PHY 232-242	General Physics I-II	8 credits
OR		
PHY 202 -204	Introductory Physics I-II	8 credits
PHY 322	Modern Physics with Health Applications	4 credits
OR		
PHY 332	Waves and Optics	4 credits
PHY 364	Electronics	4 credits
4 credits of the following (if not counted above):		4 credits
PHY 322	Modern Physics with Health Applications	
PHY 332	Waves and Optics	
PHY 377-378	Engineering Mechanics: Statics I & II	
PHY 384	Thermodynamics and Statistical Mechanics	
PHY 325	Selected Topics in Physics	
One of the following:		4 credits
PHY 380	Classical Mechanics: Dynamics	
PHY 420	Quantum Mechanics	

PHY 460

Electric & Magnetic Fields

TOTAL: 32 credits

Physics: Requirements for the Minor

Students interested in a Physics minor should consult with a faculty member in the Department of Physics. The minor in Physics is designed to give students a deeper appreciation of physics than can be attained in a one-year sequence. The minor in Physics can enhance studies in other disciplines such as (but not limited to) chemistry, mathematics, computer science and Philosophy.

PHY 232-242	General (Workshop) Physics I-II	8 credits
OR		
PHY 202-204	Introductory Physics I-II	8 credits
MATH 226-227	Calculus I-II	8 credits
PHY 322	Modern Physics with Health Applications	4 credits
OR		
PHY 332	Waves and Optics	4 credits
Eight additional upper-division credits in physics		8 credits

TOTAL: 28

COURSES

PHY-110 Physics of Everyday Phenomena

Designed to develop an understanding of the phenomena of our everyday life via the laws of physics. The emphasis is not on problem solving but on encouraging students to understand and appreciate their environment from a new perspective. Includes topics in mechanics and other physics subfields such as thermal physics, electrical phenomena. 4 credits.

PHY-155 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

PHY-160 Energy & the Environment

In order to live, humans require energy, and methods of energy production significantly affect the environment in which humans live. This course examines fundamental thermodynamic concepts such as energy and power and then explores the comparative environmental costs and benefits, including potential long term consequences, of producing energy from various sources such as fossil fuels, nuclear reactors, wood burning, solar panels, wind turbines, etc. Methods of estimation and risk assessment are emphasized so that meaningful comparisons between energy sources and their environmental consequences can be made. Also listed as ENV 160. 4 credits.

PHY-195 Independent Study

See department for details. Independent study contract required.

PHY-202 Introductory Physics I

The first semester of an algebra-based sequence in physics. Topics include Newtonian mechanics, work, momentum, and energy. The lab component includes computer based experiments in mechanics. Prerequisite: MATH 125 with a minimum grade of C-. Corequisite: PHY 202L. 4 credits.

PHY-202L Introductory Physics I Laboratory

Laboratory to accompany Introductory Physics I. Corequisite: PHY 202. 0 credits.

PHY-204 Introductory Physics II

The second semester of an algebra-based sequence in physics. Topics include heat and thermodynamics; electricity and magnetism; sound and light waves. The laboratory component includes computer based experiments in heat and thermodynamics; electric circuits. Prerequisite: PHY 202 or PHY 232 with a minimum grade of C-. Corequisite: PHY 204L. 4 credits.

PHY-204L Introductory Physics II Lab

Laboratory to accompany Introductory Physics II. Corequisite: PHY 204. 0 credits.

PHY-232 Gen Physics I-Workshop Phys I

An introductory course in physics (calculus-based) for science and pre-engineering students. First term includes Newtonian mechanics. This course is an inquiry-based, laboratory-oriented course. Corequisite: MATH 226. 4 credits.

PHY-242 General Physics II-Workshop Physics II

A continuation of PHY 232 including electricity and magnetism, thermodynamics, and nuclear physics. Prerequisite: MATH 226 or MATH 227 with a minimum grade of C-; and PHY 202 or PHY 232 with a minimum grade of C-. 4 credits.

PHY-275 Internship

See department for details. Internship contract required.

PHY-311 Relativity I

The first of a two-course introduction to Einstein's theory of relativity. This course emphasizes special relativity. Topics may include the principle of relativity, space-time effects of the Lorentz transformations, and Minkowski diagrams. Prerequisite: PHY 202 or 232 with a minimum grade of C-; and MATH 226 with a minimum grade of C-. Offered alternate years. 2 credits.

PHY-312 Relativity II

The second of a two-course introduction to Einstein's theory of relativity. This course extends the development of special relativity in PHY 311 and introduces general relativity. Topics may include relativistic energy and momentum, the equivalence principle, the geometry of space-time, and gravity. Prerequisite: PHY 311 with a minimum grade of C-. Offered alternate years. 2 credits.

PHY-322 Modern Physics With Health Applications

A project-orientated course taught in a workshop environment that covers important topics in modern physics with applications to human health. Topics include the Bohr theory of the atom, wave/particle duality, atomic and nuclear physics, and an introduction to Schrodinger's equation. Projects may include nuclear medicine, radiation therapy, neutron activation analysis, and magnetic resonance imaging. Prerequisite: PHY 204 or 242 with a minimum grade of C-. Corequisite: MATH 227. Offered alternate years. 4 credits.

PHY-325 Selected Topics in Physics

Study of a particular field in physics selected by the instructor and approved by the Physics Department. May or may not include a lab. Previous topics have included Environmental Physics, Particle Physics, Data Acquisition, Optics, Solid State Physics, and Non-Linear Dynamics. Prerequisite: PHY 242 with a minimum grade of C-; additional prerequisites may apply depending on the topic. Some topics may require the instructor's consent. Refer to the online course schedule to verify if instructor consent is required for the offered topic. May be repeated for credit when topic varies. Prerequisite: PHY-242. May be repeated for credit. 2-4 credits.

PHY-332 Waves and Optics

A course on the mathematical description of waves with application to optics. Topics will include wave addition, an introduction to Fourier analysis, laws of geometric optics, image formation, optical systems, interference and diffraction, polarization, lasers, and an introduction to transform optics including holography. The laboratory component will include selected experiments in wave motion, geometric optics, and physical optics. Prerequisite: PHY 204 or PHY 242 with a minimum grade of C-. Corequisite: MATH 227. Offered alternate years. 4 credits.

PHY-355 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

PHY-364 Electronics

The basic principles underlying circuit analysis and the operation of analog and digital electronic devices, including: diodes; transistors; op-amps; logic gates; multivibrators; counters; registers; memories; and A/D and D/A converters. Prerequisite: MATH 125 with a minimum grade of C-; and PHY 204 or 242 with a minimum grade of C-. Offered alternate years. 4 credits.

PHY-377 Engineering Mechanics: Statics I

The first of a two-course introduction to the principles of static mechanics. Special emphasis is given to problem solving techniques in physics and engineering. Topics may include: force analysis, equilibrium in two dimensions, trusses and frames, internal forces, and centroids. Prerequisite: PHY 232 or PHY 202; and MATH 226 each with a minimum grade of C-. Offered alternate years. 2 credits.

PHY-378 Engineering Mechanics: Statics II

The second of a two-course introduction to the principles of static mechanics. Special emphasis is given to problem solving techniques in physics and engineering. Topics may include: equilibrium in three dimensions, distributed forces in cables, centroids of composite bodies, fluid statics, and frictional phenomena. Prerequisite: PHY 377 with a minimum grade of C-. Offered alternate years. 2 credits.

PHY-384 Thermodynamics and Statistical Mechanics

Presentation, discussion, and application of the laws of thermodynamics and statistical mechanics including gas behavior, equations of states, phase transformations, kinetic theory, probability distributions, ensembles, and the partition function. Prerequisites: MATH 227 with a minimum grade of C-; PHY 204 or PHY 242 with a minimum grade of C-; and one upper division PHY course with a minimum grade of C-. Offered alternate years. 4 credits.

PHY-395 Independent Study

See department for details. Independent study contract required.

PHY-410 Classical Mechanics: Dynamics

Presentation and discussion of the kinematics and dynamics of single particles and systems of particles, both in inertial and non-inertial frames of reference. In addition to the standard analytical techniques, approximation techniques and a computer algebra system will be used for problem solving. Several mechanical systems will be studied experimentally and computationally. Prerequisite: PHY 204 or 242 with a minimum grade of C-. Corequisite: MATH 228 with a minimum grade of C-. Offered alternate years. 4 credits.

PHY-420 Quantum Mechanics

An introduction to quantum mechanics and its application to: free particles, barriers, the simple harmonic oscillator, the hydrogen atom, angular momentum, spin, and identical particle systems. A computer algebra system will be utilized for problem solving and visualization. Prerequisite: PHY 322 or PHY 332 with a minimum grade of C-; and MATH 228 or MATH 311 with a minimum grade of C-. Offered alternate years. 4 credits.

PHY-460 Electric & Magnetic Fields

Development of the nature and mathematical description of electric and magnetic fields in free space and material media, including: Maxwell's equations, electrostatics, magnetostatics, dielectrics, and solutions of Laplace's and Poisson's equations. Prerequisite: PHY 322 or PHY 332 with a minimum grade of C-; and MATH 228 with a minimum grade of C-. Offered alternate years. 4 credits.

PHY-470 Advanced Analysis in Physics

This course provides students with experience in analyzing and describing complex physical systems from current topics in physics. Emphasis is on the synthesis of concepts learned throughout the undergraduate physics curriculum in order to approach advanced problems. Prerequisite: Senior standing (90 or more completed credits) and declared Physics major. 2 credits.

PHY-475 Internship

See department for details. Internship contract required.

PHY-491 Physics Capstone I

The first semester of a year-long research experience. Students will work with individual faculty research advisors. At the end of Physics 491 students will give oral presentations on their research progress and submit a draft research paper. Prerequisite: Senior standing (90 or more completed credits) and declared Physics major. 2 credits.

PHY-493 Senior Capstone II

The second semester of a year-long research experience. Students will work with individual faculty research advisors. At the end of Physics 493 students will give final oral presentations on their research and submit a final research paper. Prerequisite: PHY 491 with a minimum grade of C-. 2 credits.

PHY-495 Physics Research

Student-conducted individual research project. Instructor's consent required. May be repeated for credit.

POLITICS AND GOVERNMENT

Jules Boykoff, Chair; Jim Moore, Jeff Seward, Paul Snell

Politics and government explore the processes by which a community decides what common goals it wants to achieve, what its rules will be, and how those policies and rules will be carried out or enforced. Nothing is more important to a healthy society. We are fascinated by the political process in the United States and in the world and concerned about its outcome and we welcome all students who share that interest.

While our program provides an excellent foundation for graduate study in political science, the primary focus of the department is to provide skills and habits of mind useful in a wide range of professions. Recent graduates of the department have found jobs and careers in law, politics, business, teaching, journalism, and government service. Some of our graduates continue their educations in professional programs in law, business (MBA), international affairs, education, public administration, and other fields. Many work directly after college (often as staff members for elected officials or government agencies) before going on to graduate school.

Program Learning Outcomes

The curriculum is focused on a variety of approaches to political analysis, practical hands-on experience, and student research. Given this goal, we aim to:

- Develop in students a broad knowledge of political phenomena, practical skills of analysis and communication, and an understanding of theoretical approaches to politics
- Apply political theories and concepts to gain analytical leverage over historical and contemporary political events
- Critically analyze political texts through criticism, constructive engagement, and lateral comparison and contrast
- Defend and challenge preconceived notions about politics
- Publicly present and defend a political research projects in an engaging, cogent way

Program

The curriculum is focused on a variety of approaches to political analysis, practical hands-on experience, and student research. An internship or study abroad is strongly recommended for all majors as a useful part of their study. The required senior thesis may take a variety of forms, ranging from a project based on field research to statistical analysis of quantitative data to an abstract theoretical treatment of a problem in political philosophy.

Internships and Study Abroad

While it is not a requirement, the department strongly encourages all majors to include in their program a semester-long, off-campus experience.

Many of our majors find internships, most commonly in the Oregon Legislature or Congressional offices in Washington, D.C. Other possible internship sites include social-service agencies, government agencies, interest groups, or law firms. Internships for credit involve close collaboration with a faculty advisor and are limited to one semester. Only six credits of internship credit is directly applicable to the requirements of the major.

Pacific offers many study-abroad possibilities in England, France, Germany, China, Japan, Ecuador, Mexico, and a number of other countries. These programs are described in detail in the International Programs section of the catalog. Students going abroad should include in their course plans the language, history, culture and economy of their area of interest. No more than six credits of academic work taken abroad (nine credits in the case of those studying abroad for an entire academic year) may be directly applied to the requirements of the major.

Spring semester of the sophomore year and fall semester of the junior year are generally the best times to study off-campus. Students who wish to study abroad or complete an internship that will keep them away from campus should discuss the possibility with their advisors as soon as possible in order to ensure required coursework can still be completed.

The goals of our curriculum are to develop in students a broad knowledge of political phenomena, practical skills of analysis and communication, and an understanding of theoretical approaches to politics. Graduates will know how to analyze policy problems in a clear and logical way.

Politics and Government: Requirements for the Major

A major in political science must complete the following core courses with a grade of C- or better and maintain a 2.0 average for all POLS courses. These same standards apply to the minor.

Required Courses:

POLS 140	Introduction to US Politics	4 credits
OR		
POLS 180	The US in World Affairs	4 credits
POLS 399	Theory and Methodology in Political Science	4 credits
POLS 498/499	Senior Seminar and Thesis	5 credits

Electives:

Must include credits in each of the following areas, plus two additional upper-division courses

American Politics

POLS 301	Politics and The Media
POLS 302	Parties and Elections
POLS 304	Community Politics
POLS 306	Presidency and Congress
POLS 321	Protest, Dissent, & Social Change
POLS 322	The Suppression of Dissent
POLS 325	Constitutional Law
POLS 326	Civil Liberties

International Politics

POLS 330	National Systems & Global Challenges
POLS 331	Modern Dictatorship
POLS 340	Security, Rights & Globalization
POLS 345	International Political Economy

Political Philosophy	
POLS 209	Ideas in Action
POLS 212	Conservatism & Its Critics
POLS 213	Socialism & Its Critics
POLS 310	Markets, Politics & Justice

Up to six credits of POLS internship credit may be counted toward the major, but these six credits may not be counted toward any of the specific upper-division requirements listed above.

TOTAL: 45 Credits

Political Science: Requirements for the Minor

At least one course in American Politics at 300-level	4 credits
At least one course in International Politics at 300-level	4 credits
POLS electives, at least 4 credits of which must be at the upper-division level	12 credits

TOTAL: 20 credits

COURSES

POLS-140 Introduction to U.S. Politics

The most enduring questions about politics are the who, the what, the when, and the how of politics. This course seeks to answer these questions as they pertain to the American political system. 4 credits.

POLS-180 The United States in World Affairs

A first course in international relations, focused on current problems and concerns in United States foreign policy. These include both "off-shore" issues such as human rights and peace-keeping and "intermestic" issues such as trade and immigration. The course will begin with an overview of American foreign policy traditions and attitudes and of the 20th century background. Counts toward core requirement: International Perspective. 4 credits.

POLS-195 Independent Study

See Department for details. Independent Study contract required.

POLS-209 Ideas in Action: Pol Phil & Modern Soc

Applying the insights of classical and contemporary political philosophers to the ideologies and political controversies of contemporary America. Topics covered may include environmental ethics, economic inequality and justice, the role of the state in the economy, affirmative action and multiculturalism with attention paid to modern ideologies from the far right to the far left. Philosophers may include Plato, Aristotle, Machiavelli, Rousseau, Marx, and Mill as well as a variety of contemporary political philosophers. Offered every other year. 4 credits.

POLS-212 Conservatism & Its Critics

A survey of historical and contemporary conservative ideas and movements from Edmund Burke to the present with an emphasis on the variety of conceptions of conservatism. Also includes critiques of different forms of conservative thought from within the conservative tradition itself as well as from liberal and socialist critics of conservatism. 4 credits.

POLS-213 Socialism & Its Critics

A survey of historical and contemporary socialist ideas and movements from the Bible and Plato to the contemporary period, including a survey of utopian socialist, Marxist, anarchist, communist, and social democratic variants of the socialist ideal. Also includes critiques of different forms of socialist thought from within the socialist tradition itself as well as from liberal and conservative critics of socialism. 4 credits.

POLS-221 Politics in Literature & Film

Exploration of a single major theme of politics through the medium of literature and film. Possible course themes include Latin American film, revolution, war, utopia, propaganda, the Cold War and American political culture. May be repeated for credit when topic varies. 2-4 credits.

POLS-222 Civil Rights Movement

This course examines the causes, history, and tactics of the struggle to guarantee African-Americans equal treatment under the law in the United States. The primary focus of the course material is on the political movement for racial equality in the United States from 1954-1968. Also listed as PSJ 222. Counts toward core requirement: Diverse Perspectives. 2 credits.

POLS-224 Environmental Politics

This course introduces students to environmental disputes and the forces that affect environmental policy. Topics include the history and evolution of environmentalism and environmental policy and an extensive case study of a local environmental issue. Also listed as ENV 224. 4 credits.

POLS-226 The Politics of Surveillance

In this course students will explore the politics of surveillance and its theoretical roots in state legitimacy projects. As students examine the general contours of surveillance, they will answer numerous questions: What is surveillance? How and why has surveillance evolved through history and what role has technology played in this evolution? How does surveillance affect social relations? The course explores how surveillance occurs in the real world and how it intersects with civil liberties and the practice of dissent. 4 credits.

POLS-227 Civil Rights Movement

This course examines the causes, history, and tactics of the struggle to guarantee African-Americans equal treatment under the law in the United States. The primary focus of the course material is on the political movement for racial equality in the United States from 1954-1968. Also listed as PSJ 227. Counts toward core requirement: Diverse Perspectives. 4 credits.

POLS-231 Contemporary Middle East

An exploration of the modern Middle East, the course will focus on issues of politics, culture, economics, and conflict. Special emphasis will be on Israel and its neighbors, the role of oil, the nature of Islam, and the special interests of the United States in the region. Counts toward core requirement: International Perspectives. 4 credits.

POLS-232 Current Events in the Middle East

Whatever is in the news about the Middle East, we will cover it in this two-week course taught during Winter term. The central issues of Israel-Palestine and of oil's role in the region are constants. The course will explore the role of religion, culture, politics, and international interest in the region as well as particular geographic areas (e.g. Syria, Egypt, Saudi Arabia, Iran). Counts toward core requirement: International Perspectives. 2 credits.

POLS-239 Latin America I: Conquest-Independence

Survey of Latin American history from 200 C.E. to 1810 C.E. with a focus on the pre-Columbian Mayan, Aztec, and Inca civilizations; the conquest and settlement of Mexico, Central America, and South America by the Spanish and Portuguese; and the colonial institutions in Spanish America and Brazil up to the beginnings of the movements toward independence. Special emphasis will be given to the clash of indigenous and European religious/spiritual outlooks, political economy, and the interaction of issues of race, class, and gender in the emergence of syncretic New World societies. Also listed as HIST 239. Counts toward core requirement: International Perspectives. 4 credits.

POLS-241 Latin America II: Independence-Present

Survey of Latin American history from 1810 to the present with a focus on the independence struggles and the first century of independence; the rise of populism, socialism, and economic nationalism; the collapse of populist democracies and the rise of bureaucratic authoritarian military regimes; and recent transitions to democracy combined with economic liberalization. Course will also include attention to issues of class, race and gender, over the course of these political and economic transformations and the history of US-Latin American relations in the 19th and 20th century. Counts toward core requirement: International Perspectives. 4 credits.

POLS-255 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

POLS-275 Internship

See department for details. Internship contract required. 1-4 credits.

POLS-295 Independent Study

See department for details. Independent study contract required. 1-4 credits.

POLS-301 Politics and The Media

Examines the impact of the media upon the political process; the relationship between the press and politicians; and whether the press is a "neutral" force in American politics. Biennially. 4 credits.

POLS-302 Parties and Elections

The development of political parties and their organization, function and campaign methods. Analysis of interest groups and their effect on government and political parties. Public opinion and propaganda. Involvement in a political campaign required. Counts toward core requirement: Civic Engagement. Biennially. 4 credits.

POLS-304 Community Politics

An exploration of how community politics works in the United States. The class will look at issues of representation, participation, public funding, and taxation. Analysis will focus on state and local governments and interest groups. Through participant observation and readings in the field, the class will explore theory and practice in community politics groups. Counts toward core requirement: Civic Engagement. 4 credits.

POLS-306 Presidency and Congress

This course explores the relations between the U.S. presidency and Congress, and how these relations have evolved over time. Students will examine long-term trends in this relationship and will consider compelling, instructive anomalies as well. Students will study the formal and informal powers of both Congress and the president and also explore case studies of conflicts between the two branches in the realms of both domestic and foreign policy. They will also carefully follow congressional-presidential relations as they unfold over the course of the semester, closely tracking the news as it emerges from Washington, DC. 4 credits.

POLS-310 Markets, Politics & Justice

An examination of political economy (the interaction of politics and economics) with respect to topics such as macroeconomic policy-making, industrial policy, income distribution, development strategies, and the welfare state plus the political dimensions of economic ideologies including classical liberal, Marxist, and social democratic perspectives. ECON 101 or ECON 102 strongly recommended. 4 credits.

POLS-321 Protest, Dissent, & Social Change

This course examines the causes and history of widespread movements that use protest to promote political change. Topics include theories of social movements and case studies that may include the labor movement, the civil rights movement, the women's movement, the environmental movement, and the recent rise of conservative Christian activism. Also listed as PSJ 321. Counts toward core requirement: Civic Engagement. 4 credits.

POLS-322 The Suppression of Dissent

This course explores how the state, mass media, and other forces suppress dissent. Students will first gain a theoretical foothold in the field of social-movement studies, along the way exploring the following questions: What is dissident citizenship? How, when, and why does the state suppress dissent? What role do the mass media play in the suppression of activism? Students will also study specific historical instances of political suppression, such as the suppression of the American Indian Movement, civil rights movement, environmental movements, and the Global Justice Movement. 4 credits.

POLS-325 Constitutional Law

An introduction to the judicial process, legal reasoning and interpretation of the Constitution through analysis of court cases. Subjects include federalism, property, race, gender, and privacy. Also listed as DS 325. Biennially. 4 credits.

POLS-326 Civil Liberties

This course examines the development of civil liberties in the United States by focusing on the role of the Supreme Court. Subjects include freedom of speech, freedom of press, freedom of religion, and the rights of the accused. Biennially. 4 credits.

POLS-330 National Systems & Global Challenges

Survey of national political systems in the context of the challenge of globalization. Countries studied and compared will include most or all of the following: United States, Britain, France, Germany, Russia, China, Japan, Mexico, Brazil, India, Nigeria, Egypt, Iran, and the European Union (as emerging or quasi-state). Issues analyzed will include competing theories of the origins and consequences of different political institutions, the relationship between domestic political arrangements and the ability to cope with globalization, transitions to democracy, and the consolidation of democracy and the future of the nation-state. Counts towards core requirement: International Perspectives. 4 credits.

POLS-331 Modern Dictatorship

A survey of non-traditional, 20th century dictatorships and the theoretical concepts and explanations political science has developed to categorize and explain them, including especially controversies surrounding the concepts of "authoritarianism" and "totalitarianism." Cases examined will include some or all of the following: the USSR, Nazi Germany, the People's Republic of China, Latin American military dictatorships, and the Iranian quasi-theocracy. 4 credits.

POLS-340 Security, Rights & Globalization

Nationalism and cultural identity; the international system and world organization; problems of conflict and war; issues of human rights and democracy; economic globalization and development; and security issues such as the spread of weapons of mass destruction. Counts towards core requirement: International Perspectives. 4 credits.

POLS-345 International Political Economy

This course explores the post-WWII world economy, the place of the United States in that economy, the role of theory and differing world views, and possibilities for future economic realities. Particular emphasis is placed upon understanding U.S., European and Japanese, and post-Communist international economic policy and business decisions. POLS 180 and ECON 101 strongly recommended. Counts toward core requirement: International Perspective. 4 credits.

POLS-350 Special Topics in Political Science

Courses of varying formats on specific topics not included in the regular curriculum. Past examples include Contemporary Mexico, the Salmon Crisis, and Oregon Forest Policy. May be repeated for credit when the topics vary. 2-4 credits.

POLS-351 Social Policy & Social Justice

This course provides an examination of both the historical and contemporary context of social welfare policies and programs. The course will examine how legislation is developed, enacted, and implemented in our society, including how policies have emerged in response to social problems at the local, national, and international levels. Issues of social justice, and how policies and programs affect populations at risk, will be emphasized. U.S. social welfare policy will be examined in a global and human rights context. Also listed as SOCWK 351 and PH 351. Prerequisite: SOCWK 201 with a minimum grade of C-. 4 credits.

POLS-352 Politics and Sports

In this course, students explore the intersection of politics and sports. Topics include: the political economy of sport; sport and social class; how race and ethnicity affect participation in, reactions to, and media coverage of sports; how gender and sexuality inflect both media portrayals of sport and our understanding of athleticism. Students examine the politics of both professional and amateur sports as well as mega-events like the Olympics and soccer World Cup. The course also involves discussing contemporary connections between politics and sports as they unfold in real time, bringing modern-day events into conversation with the course texts. Prerequisite: Sophomore standing or above (30 or more completed credits). 4 credits.

POLS-355 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

POLS-395 Independent Study

Student-conducted individual research/theoretical project. Faculty supervised. Independent study contract required. 1-4 credits.

POLS-399 Theory & Methodology in POLS

A required junior seminar for POLS majors that focuses on key concepts, theories, and methodologies in political science to prepare majors for the senior capstone experience. Exercises in course will culminate in a formal proposal for the senior thesis. Prerequisite: Junior standing or above (60 or more completed credits). 4 credits.

POLS-475 Internship

Off-campus placements in political settings can be undertaken for credit. Requirements vary. See Department Chair for more information. Internship contract required. 1-14 credits.

POLS-495 Independent Research

Student-conducted individual research/theoretical project. Faculty supervised. Independent study contract required. 1-4 credits.

POLS-498 Senior Seminar & Thesis I

In this course, students define their thesis project, gather necessary information, carry out original research, and write their senior thesis. The seminar will also meet four hours a week to discuss selected readings in research methods, theories of power, and approaches to policy analysis. This course is required of all majors in their final year. Prerequisite: Senior standing (90 or more completed credits), POLS 399, and declared Politics & Government major. 4 credits.

POLS-499 Senior Seminar & Thesis II

In this course, students refine their thesis and prepare to present it publically. In addition to completing their written thesis, students will prepare their public presentation of the thesis for Senior Projects Day. This course is required of all majors in their final year. Prerequisite: POLS 498. 1 credit.

PSYCHOLOGY

Heide D. Island, Chair; Alyson Burns-Glover; Renee Crowgey; Shawn Davis; Erica Kleinknecht; Connor Principe; Dawn Salgado; Todd Schultz

Psychology is the empirical analysis of mind and behavior. The department members believe that reliable knowledge of psychological processes represents a necessary condition for meaningful action in the world. Virtually all disciplines benefit from attention to psychological variables. Psychology is a versatile, inherently interdisciplinary, and multi-methodological enterprise.

The Department's mission is to engender the kind of student who possesses a diverse and clear understanding of the major concepts, traditions, and findings within the field of modern psychology. Our goal is to mentor students to think critically and independently; who are well versed in both qualitative and quantitative methodologies and regard both as potentially valuable and appropriate. Our classes incorporate discipline-specific writing, professional skills, and opportunities for creative as well as critical thinking about applied problems.

Based on the Guidelines of the American Psychological Association for the Undergraduate Psychology Major: Knowledge in Psychology; 2.) Scientific Inquiry and Critical Thinking; Ethical and Social Responsibility; Communication; and Professional Development, the goals of the Psychology Department are as follows:

Program Learning Outcomes:

- **introduce** students to the scientific approach and methods of critical analysis in the interpretation and evaluation of research and theory
- **engender** curiosity and cultural humility in understanding, service and research with diverse populations
- **present** a selection of courses that typify the breadth of the discipline and the expertise of departmental faculty
- **instill** cooperative learning strategies that enable students to participate effectively in group projects and in circumstances surrounding employment
- **polish** student writing so that they communicate clearly, succinctly and with authority both in oral presentation and in essay form
- **mentor** students' by providing opportunity and instruction in basic and applied psychology through civic and community engagement, as well as allied health and service professions.

Psychology: Requirements for the Major

All courses must be completed with a "C" or better.

Category I: Core Courses (18 credits)

Complete all of the below courses

PSY 150	Introduction to Psychology	4 credits
PSY 348	Research Methods	4 credits
PSY 349	Research Methods Laboratory	2 credits
PSY 350	Behavioral Statistics	
OR		
SOC 301	Social Statistics	4 credits
PSY 490	Senior Capstone —or— PSY 499 Advanced Senior Research	4 credits

Category II: Breadth Electives (16 credits)

Complete at least one course from four of the five groups below:

Group A

PSY 252	BIOPSY I: Behavioral Neuroscience with Laboratory	4 credits
OR		
PSY 352	Sensation and Perception with Laboratory	4 credits

Group B

PSY 202	Health Psychology	4 credits
OR		
PSY 211	Abnormal Psychology	4 credits
OR		
PSY 309	Personality Psychology	4 credits

Group C

PSY 316	Psychology of Studying	4 credits
OR		
PSY 314	Memory and Mind	4 credits
OR		
PSY 416	Cognitive Science	4 credits

Group D

PSY 240	Child Development	4 credits
OR		
PSY 281	Lifespan Development	4 credits

Group E

PSY 358	Psychology of Ethnic Diversity in the US	4 credits
OR		
PSY 308	Social Psycholog	4 credist
OR		
PSY 310	Community Psychology	4 credits

Category III: Electives (16 credits)

Category III courses are elective options, emphases and special topics courses that count toward the major. Students must take an additional 16

elective credits; 8 of which must be upper division credits.

Any course not taken to fulfill Category II may be used for an elective, as can of the other Psychology courses except those required in Category I and the Professional Development courses.

The following classes from programs outside of psychology also can be electively used towards the major or minor (no more than 8 credits total):

BIOL 312	Genetics and Evolution
PHIL 310	Philosophy of Science
PHIL 314	Philosophy of Mind
SOC/GSS 316	Gender and Sexuality
SOCWK 325	Counseling and Interviewing Techniques

TOTAL: 50 credits required for the BA Psychology degree

TOTAL: 58 credits required, the BS Psychology degree (2 additional NS lab classes)

Psychology: Requirements for the Minor

The following courses must be completed with a grade of "C" or better:

PSY 150	Introduction to Psychology	4.0
PSY 350	Behavioral Statistics	4.0

OR

SOC 301	Social Statistics
Electives	16.0

Students intending to minor in Psychology should consult with a department member prior to choosing electives. At least 8 of the elective credits must be at the upper division level and no more than 8 elective credits outside of the Psychology may be used toward a Psychology Minor. These interdisciplinary courses must be Psychology-approved courses. Psychology-approved interdisciplinary courses include:

EXIP 365	Perceptual Motor Learning (NOTE: counts for the Minor not the Major)
BIOL 312	Genetics and Evolution
PHIL 310	Philosophy of Science
PHIL 314	Philosophy of Mind
SOC/GSS 316	Gender & Sexuality
SOCWK 325	Counseling and Interviewing Techniques

TOTAL: 24 credits

Professional Development Courses

The following courses are recommended for any student interested in pursuing a graduate or professional degree. These courses DO NOT count toward upper division credits within the Major. However, they do fulfill upper division credits toward core requirements.

PSY 351	Directed Research
PSY 448	Mentoring in Psychology
PSY 451	Senior Thesis

(4 credits of PSY 451 are required; more than 4 are considered "professional development" and don't count toward

the major)

PSY 475	Internship Experience
---------	-----------------------

COURSES

PSY-150 Introduction to Psychology

Psychology is the science of human and animal behavior and mental processes. As a survey course, Introduction to Psychology provides an overview of the methods, terms, theories, and research findings in the field. By understanding principles of psychology, students learn more about themselves, other human and non-human animals, historic and contemporary issues within the discipline and how to think about those issues critically. 4 credits.

PSY-155 Special Topics - Psychology

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

PSY-160 Cultural Psychology

The goal of this course is to provide a cross-cultural review of general principles of human psychology. Emphasis is on the organizing syndromes of particular cultures and how these world-views affect an individual's emotions, cognitions and behaviors. Counts toward core requirement: Diverse Perspectives. 4 credits.

PSY-195 Independent Study

See department for details. Independent study contract required.

PSY-202 Health Psychology

This course provides an overview of research, theory, and contemporary issues in the area of health psychology focusing on the ways in which individual factors, interpersonal processes, and larger systems influence the psychological and physical well-being of individuals. Topics include lifestyle factors and theories of health behavior change, stress and coping, help-seeking and healthcare interactions, prevention and intervention strategies, as well as a discussion of pain, injury, and chronic illness. Prerequisite: PSY 150 with minimum grade C. Counts toward core requirement: Diverse Perspectives. 4 credits.

PSY-208 Addictions and Society

Addictions and Society takes a historical and interdisciplinary approach to the question of alcohol, substance abuse and the social costs of addiction and use. The course investigates human motives to alter consciousness using classic and modern research in the physiology of addiction, sociocultural risk factors and changing cultural representations of drug use. Also listed as PSJ 208. Prerequisite: PSY 150 with a minimum grade of C. 4 credits.

PSY-210 Current Issues in Psychology

This is a seminar-style course that varies from one semester to the next. Course themes are selected based on the contemporary issues in the field and the faculty member's area of expertise, interest, and background. Examples of "Current Issues" include: Peoples and Cultures of Hawaii; The

Nature of Self-Concept; Aging; Life-Story Models of Identity; Evolutionary Psychology; and Psychology of Mindfulness. Prerequisite: PSY 150 with a minimum grade of C; additional prerequisites may apply depending on topic. May be repeated for credit when topic varies. 2-4 credits.

PSY-211 Abnormal Psychology

Students critically explore major categories of disorders, with special emphasis on anxiety disorders, mood disorders, schizophrenia, and borderline personality. All original readings (no textbook). Questions are raised about the use of psychiatric drugs, and attention is paid to the history of insanity. This course includes both textbook and original readings. Also listed as DS 211. Prerequisite: PSY-150 with a minimum grade of C. 4 credits.

PSY-216 Introduction to Psychology of Studying

Students learn the essentials of Cognitive and motivational psychology as they apply to academic engagement. From Cognitive Psychology, students learn about the nature of knowledge acquisition, storage, and retrieval. Topics covered stem from both neuroscience and from traditional psychological research. Additionally, students learn about the psychology of motivation as it applies to academic settings by focusing on optimal ways of fostering healthy achievement motivation. Prerequisite: PSY 150 with minimum grade C. 2 credits.

PSY-225 Comparative Learning & Behavior

The discipline of "learning" stemmed from the Behaviorist and Gestalt Psychological camps during the early development of Psychology. Today, learning includes a broader swath of specialties including: Cognitive, Biological, Educational, Social, and Abnormal Psychology. The systematic study of learning is a comparative branch of Psychology, wherein human and nonhuman animal behavior is investigated. Students complete this courses with a more expansive understanding of semi-permanent changes in human and nonhuman animal behavior and the wide applicability and limited generalizability of those behaviors across species and contexts. Prerequisite: PSY 150 with a minimum grade of C. 4 credits.

PSY-226 History and Systems of Psychology

Psychology is often discussed as having a long past but a short history. This course investigates the past (early philosophy relevant to the "psych") and the history (the formal establishment and research within the discipline) through the social, political, and historic influences on the science of behavior. The goals of this course are to provide students with a more holistic appreciation and understanding of contemporary psychological theories, and the early foundations of modern psychology. Students consider major theories, emerging research directions and controversies within the specialty disciplines of psychology. Prerequisite: PSY 150 with minimum grade C. 4 credits.

PSY-240 Child Development

This course is an introduction to human development with an emphasis on early and middle childhood. Initial discussion focuses on how to best characterize behavioral change over time and the interactive roles of nature and nurture as facilitators of change. Through detailed discussion of theory and research outcomes, students attain a comprehensive understanding of normative trends in physical, cognitive, social, emotional, and personality development coupled with an understanding of the cause of such change. Prerequisite: PSY 150 with a minimum grade of C. 4 credits.

PSY-252 BIOPSY I: Introduction to Neuroscience

This lecture and laboratory course seeks to explain and identify the biological structures of behavior, relating to actions, experience, genetics and phylogeny of the organism. Students learn physiological function and brain injury sparing, assessment, and recovery through case studies, discussion, video, dissection and lecture. The goals of this course are to provide students with a strong background in neuroscience, neuroanatomy, neuropsychological assessment, and the ability to apply their knowledge to individual trauma case examples. This the first course in the Department of Psychology's Neuroscience Emphasis (PSY 252, 352, 452). Should a student choose to complete this three-course series, it is permissible to enroll in the courses out of sequence. Prerequisite: PSY-150 with a minimum grade of C. BIOL-110 or BIOL-200, and BIOL-231 or BIOL-240 strongly recommended. 4 credits.

PSY-255 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

PSY-275 Internship

See department for details. Internship contract required. 1-4 credits.

PSY-281 Lifespan Development

In this course, students learn the fundamentals of human development from conception to death. Lifespan developmental psychology examines the extent to which genetics (nature) and the environment (nurture) shape who we are as living, thinking, and socializing people. Prerequisite: PSY 150 with minimum grade C. 4 credits.

PSY-308 Social Psychology

This course addresses social behavior from the perspective of humans as social agents, how they affect and are affected by others, topics include: perception of persons, affiliation, communication and attitude change, group processes, leadership, intergroup tension, cultural syndromes, and social roles. Prerequisite: Junior standing or above (60 or more completed credits), PSY 348, and PSY 349 both with a minimum grade of C. PSY 350 or SOC 301 are strongly recommended. 4 credits.

PSY-309 Personality Psychology

A survey of current leading models of personality science, with special attention paid to five-factor theory (or what is also known as the "Big Five"; attachment theory, especially adult attachment-related behaviors; and script and life story models of identity in which self is presumed to be at least partly a function of narrative story-telling. All original readings (no textbook). Prerequisite: Sophomore standing or above (30 or more completed credits) and PSY 150 with minimum grade of C. 4 credits.

PSY-310 Community Psychology

This course will feature relevant theory, research, and practice in community psychology. Students will examine the associations between individual and social/environmental systems, the role of applied and action-oriented research, and use of collaborative practices all aimed at understanding and solving social issues from a strength-based perspective to promote wellness and reduce social inequities. This course includes a student-initiated service learning component. Prerequisite: Junior standing or above (60 or more completed credits) and PSY 150 with minimum grade C. Counts toward core requirement: Civic Engagement and Diverse Perspectives. 4 credits.

PSY-313 Ecopsychology

This course is an overview of psychological research in environmental attitudes, conservation, sustainability, effects of the environment on human behavior and well-being, and how to design and implement programs to promote ecologically aware behaviors. Course will include seminar discussion, travel for field trips, and community-based programming. Also listed as ENV 313. Prerequisite PSY 150 with a minimum grade of C. 4 credits.

PSY-314 Memory and Mind

Students delve into Cognitive Psychology by studying the nature of memory-- a cognitive skill we all take for granted, but that is necessary for our survival. Topics covered include historical perspectives in the study of memory, theories and current research in Information Processing, Mental Representation, and Long-term Declarative Memory Systems, changes in memory abilities over the life-span, and applied issues related to memory (in)accuracy. Through in-class lab exercises, writing and class discussion, students achieve a deep understanding of the nature of cognition and key role that memory plays. Prerequisite: Sophomore standing or above (30 or more completed credits) and PSY 150 with minimum grade of C. 4 credits.

PSY-316 Advanced Psychology of Studying

Students learn the essentials of Cognitive and motivational psychology as they apply to academic engagement. From Cognitive Psychology, students learn about the nature of knowledge acquisition, storage, and retrieval, contrasting "informational processing" and "embodied cognition" perspectives. Topics covered stem from both neuroscience and from traditional psychological research. Additionally, students learn about the psychology of motivation as it applies to academic settings by focusing on optimal ways of fostering healthy achievement motivation. Prerequisite: PSY 150 with minimum grade C. PSY 252 recommended. 4 credits.

PSY-344 Social & Personality Development

Students will learn the essentials of social and personality development. By the end of the course, students will understand the fundamentals of child social cognition, emotional regulation, attachment, and moral as well as gender development. Students will also learn how the contexts of family, school, society, and culture influence the development of sociality and sense of identity. This course is highly recommended for students who are considering careers working with children, adolescents, or both. Prerequisite: PSY 150 with minimum grade C; and PSY 180 or PSY 240 with minimum grade C. PSY 308 recommended. 4 credits.

PSY-348 Research Methods in Psychology

This course examines the principles of research design, methodology, and data analysis in psychology. Method and design issues relevant to a wide range of substantive areas in psychology are covered, such as experimental designs, survey research, observational research, and qualitative content analysis. Further, students receive an introduction to data management and analysis, research ethics and the Institutional Review Board (IRB) process. Prerequisite: Sophomore standing or above (30 or more completed credits) and PSY-150 with a minimum grade of C. Corequisite: PSY-349. PSY 348 and PSY 349 must be passed in same semester with a C or better. 4 credits.

PSY-349 Research Methods in Psychology Lab

This course is graded separately, but is a required component of PSY-348 and must be taken concurrently. In this course students work in groups to design studies, collect data, analyze it and present it. This course also focuses on the writing standards in scientific publication and presentation of results. Prerequisite: Sophomore standing or above (30 or more completed credits) and PSY 150 with a minimum grade of C. Corequisite: PSY-348. 2 credits.

PSY-350 Behavioral Statistics

Behavioral statistics provides an introduction to experimental design, descriptive and inferential statistics as well as computer statistical analysis. Statistical analysis is an essential part of any behavioral research project. This course provides the professional scaffolding for critical thinking, research interpretation, and empirical evaluation. Prerequisite: Sophomore standing or above (30 or more completed credits). MATH-165 strongly recommended. Does not meet Social Sciences core requirement (2010 catalog). 4 credits.

PSY-351 Directed Research in Psychology

Directed Research provides students with the opportunity to participate in an ongoing research project with a psychology faculty member. This opportunity provides practical research experience for business, career development, and graduate school. Research experience at the undergraduate level facilitates a more competitive application for graduate programs and jobs. May not be used as elective credit in Psychology. Instructor's consent required. May be repeated for up to 6 credits total. 1-2 credits.

PSY-352 BIOPSY II: Sensation & Perception

This lecture and laboratory course explore the psychophysics of sensation and how that data is transduced into the energy of the central nervous system, a neural impulse. The central nervous system translates visual, auditory, somatosensory, gustatory and olfactory sensations into perceptual representations of the world. The goals of this course are to provide students with the skills and opportunities to conceptually integrate structure and function of the nervous system in an applied way; to further their empirical writing skills, and to explore neuroscience through both a lecture, laboratory and discussion format. This the second course in the Department of Psychology's Neuroscience Emphasis (PSY 252, 352, 452). Should a student choose to complete this three-course series, it is permissible to enroll in the courses out of sequence. Prerequisite: Sophomore standing or above (30 or more completed credits) and PSY 150 with a minimum grade of C. BIOL-110, BIOL-224, or BIOL-240 recommended. 4 credits.

PSY-355 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

PSY-358 Psychology of Ethnic Diversity in US

Psychological theory and research in ethnic identity and ethnicity and their effects on social relationships, well-being, and physical health will be reviewed. Current and classic research on ethnicity, resiliency, cultural, trauma, and family socialization will be discussed. Students will investigate current events and their own personal concepts of ethnic identity. How intersecting identities of race, ethnicity, gender, class and sexuality affect psychosocial adjustment are addressed. Prerequisite: PSY 150 with a minimum grade of C. ENGW 201 strongly recommended. Counts toward core requirement: Diverse Perspectives. 4 credits.

PSY-361 Psychology of Gender

Psychology of gender will provide students with a survey of psychological theory and research on the influence of gender, gender identity, and gender labels on the cognitive, social, physical states of humans across the lifespan. Course materials will include intersections of gender with other key social identities including race/ethnicity, socioeconomic status, ableness, ageism, and sexual orientation. Prerequisite: Junior standing (60 or more completed credits), PSY 150 with a minimum grade of C, and one of the following: PSY 350, PSY 348, SOC 301, SOC 300, ANTH 301, SOCWK 310, or PH 300. Counts towards core requirement: Diverse Perspectives. 4 credits.

PSY-395 Independent Study

See department for details. Independent study contract required.

PSY-416 Cognitive Science

By taking a Cognitive Science perspective to the study of mind and mental experience, students are engaged in understanding how Philosophical, Psychological, Neuroscience, and Computational approaches can intersect, yielding a rich and complex picture of what it means to think, reason, and remember. Students gain a deep appreciation for the complexity of the human mind by going beyond the contribution of a single discipline and by challenging themselves to see connections across traditional academic divides. Prerequisite: Junior standing or above (60 or more completed credits); and PSY 150 with a minimum grade of C. 4 credits.

PSY-420 Special Topics in Psychology

Special Topics is a seminar course focusing on topics of special interest to students and faculty, examples include: Psychopharmacology, Cognition, Face Perception, Personality, Sociocultural Psychology, Educational Psychology, etc. Instructor's consent required. May be repeated for credit as topic varies. 2 or 4 credits.

PSY-444 Psychobiography

Psychobiography attempts to understand the form and content of artistic work from the vantage point of the artist's life history. Previous classes have included analyses of artists Diane Arbus, John Lennon, Sylvia Plath, Elvis, Oscar Wilde, Jackson Pollack, Vladimir Nabokov, Roald Dahl, Jack Kerouac, van Gogh, Kurt Cobain, and Truman Capote, among others, as well as political figures such as George W. Bush and Bill Clinton. Significant use is made of psychological theory as a means of tracing meaningful connections between the life and creative products or political beliefs. All original readings (no textbook). Prerequisite: Junior standing or above (60 or more completed credits) and PSY 150 with a minimum grade of C. 4 credits.

PSY-445 Children and Violence

In this seminar, students will learn and discuss issues related to children and the culture of violence in which they live. This course will be roughly divided into three sections. Part 1 addresses children as victims of violence, including both direct (physical, sexual) and indirect (witnessing domestic violence) forms; Part 2 examines children as consumers of violence via the media (TV, music, video games, and so forth); and Part 3 investigates children who perpetrate violence ranging from those who bully peers to those with developmental psychopathologies. Although this course is heavily research based, it may be especially valuable to students who are considering careers with at-risk youths. Prerequisite: Junior standing or above; PSY 150 with minimum grade C; and PSY 180 or PSY 240 or 281 with minimum grade C. PSY 344 recommended. 4 credits.

PSY-448 Mentoring in Psychology

Advanced psychology students will serve as facilitators and laboratory assistants in psychology classes in which they have previously demonstrated excellence. Mentors attend all classes and co-curricular events and complete all of the readings. Mentors will assist in classroom management, study sessions, and laboratory activities. They will work closely with faculty in developing the means to good mentoring during independent meetings with the professor outside of class. Prerequisite: 15 credits in PSY. Instructor's consent required. May be repeated for credit. 1-4 credits.

PSY-449 Directed Research & Community Outreach

Directed Research and Community Outreach provides students with the opportunity to participate in a research project with a psychology faculty member AND a community organization. This opportunity provides practical research experience in a community service related project, as such it does have a civic engagement designation. Research that benefits community organizations facilitates a more competitive application for graduate programs and jobs. Although this experiential credit may not be used as elective credit in Psychology, it can be used toward civic engagement requirements. As such, students or their research supervisor must submit the project proposal to the Center for Civic Engagement for inclusion in their ongoing catalog of CE projects underway in the College of Arts and Sciences. Instructor's consent required. Counts toward core requirement: Civic Engagement. May be repeated for more than one semester for up to 6 credits. 1-6 credits.

PSY-452 BIOPSY III: Endocrinology

This course explores the mediating role of hormones on the reciprocal physiological systems and how neurochemicals influence behavior across species. A central topic of this course concerns the effects of sex steroid hormones on various reproductive behaviors (e.g., sexual and parental behaviors). Other topics covered include: the endocrine regulation of aggressive behavior, biological rhythms, energy balance, stress, learning, memory, and contemporary topics within endocrinology (e.g., the effects of hormone replacement therapy, anabolic steroids, and psychopharmaceutical medications on healthy hormone regulation). This is the second course in the Department of Psychology's Neuroscience Emphasis (PSY 252, 352, 452). Should a student choose to complete this three-course series, it is permissible to enroll in the courses out of sequence. Prerequisite: Junior standing or above (60 or more completed credits) and PSY 150 with minimum grade of C. 4 credits.

PSY-455 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

PSY-475 Internship

See department for details. Internship contract required.

PSY-490 Senior Capstone Seminar

The Senior Capstone Seminar is a writing-intensive course. It requires students to formulate a compelling psychological question with the assistance of their capstone supervisor. The topics vary by faculty supervisor specialty, thus each section will be designated by topic name. Students develop an empirical question, assemble an array of articles, books, or book chapters, pursuant to that question, and review, organize and assess this literature to write a compelling formal paper and engaging "Ted Talk" to be presented during Senior Projects Day (Spring). Others may choose to present a poster at the Undergraduate Research Conference (Fall), or another public arena. Pre-requisites: PSY-150, PSY-348, PSY-349, PSY-350 passed with a C or better; permission of the instructor to enroll in specific sections. Credits: 2-4, (4 credits required for the major) however credits may be repeated across semesters (e.g., 2 and 2).

PSY-499 Advanced Senior Research

The Advanced Senior Research thesis option is by invitation or faculty permission only and is for select seniors who wish to pursue professional, academic research. Like graduate school, students become a research mentee to a faculty mentor in their research. Students join that laboratory's research team, investigate the literature, prepare a research proposal, receive IRB approval (if appropriate), solicit participants (if appropriate), collect and enter data, analyze the results, and write a formal APA style paper. In addition to presenting their work at Senior Projects and writing a formal academic paper, Advanced Senior Research (PSY 499) requires professional presentation at an academic conference. Pre-requisites: PSY 150, PSY 348, PSY 349, PSY 350 passed with a C or better. Minimum 3.25 GPA in the major and a 3.00 GPA overall. Instructor consent required. Credits: 2-6 (4 credits required in place of 490) and may be repeated for credit (e.g., 2 and 2; 2 and 4 for elective credit).

PUBLIC HEALTH

Don Schweitzer, Chair; Rose Dahl, Jana Peterson-Besse, Rebecca Schoon, Matthew Town

The public health major is offered through the department of Social Work and Public Health. Also offered through this department is a major in Social Work.

The mission of the public health program is to develop emerging public health leaders through an interdisciplinary education rooted in the liberal arts and connected with contemporary public health practice. The curriculum challenges students to understand the intellectual meaning and practical implications of the broad array of influences on population health, emphasizing the social foundations of health.

The study of public health is dedicated to understanding and improving the health and well-being of all people. The public health major is designed to develop students' abilities to understand, analyze, problem-solve and communicate effectively in a complicated, international and rapidly changing world. Pacific's public health program integrates health science, social science and humanistic approaches to addressing global health challenges.

Public health students study core courses within public health, such as introductory public health, epidemiology, social foundations of population health, environmental health, and global health. But we know that public health workers need a broad set of skills and abilities to be effective in promoting health and well-being, so our students complete their public health majors with courses in statistics and biology, plus a choice of courses from anthropology, biology, chemistry, economics, environmental sciences, ethics, history, media arts, politics, psychology, sociology, social work and the humanities.

Program Learning Outcomes

- Describe interconnected relationships among physical, social, and environmental aspects of health and disease.
- Appreciate the role of multiple determinants of health across diverse populations and health issues.
- Identify social injustices and propose strategies for change.
- Understand and communicate using public health terminology, including epidemiological measures.
- Interpret quantitative and qualitative information about population health.
- Synthesize information from a variety of sources to understand and act upon population health problems.

Students studying public health are often interested in pursuing careers in the public sector, working with health departments, policymakers or organizations such as the U.S. Centers for Disease Control. Others are interested in working with nonprofit organizations or non-governmental organizations (NGOs) that promote better health both domestically and abroad. Still other public health graduates will pursue private-sector employment within the insurance or healthcare industries. Public health graduates are prepared for careers in health departments, hospitals, nonprofit organizations, universities, family violence prevention organizations, disaster relief organizations, and state and federal agencies. Many students choose to combine undergraduate public health education with graduate school in public health or the health professions.

Students may earn a Bachelor of Arts or Bachelor of Science, or minor in Public Health. Only a grade of C- or above may be used to satisfy major and minor requirements. Students must maintain a minimum 2.0 grade point average in the major or minor.

Bachelor of Arts in Public Health: Requirements for Major

PH 101	Public Health	4 credits
PH 200	Epidemiology	4 credits
PH 310	Social Foundations of Population Health	4 credits
PH 352	Program Development and Evaluation	4 credits
PH 370	Pre-Field Experience Seminar	1 credit
PH 380	Public Health Field Experience	4 credits
PH 491	Capstone I	2 credits
PH 492	Capstone II	2 credits
SOC 301	Social Statistics	4 credits
OR		
MATH 207	General Elementary Statistics	4 credits
BIOL 200	Intro Biology: Flow of Energy	4 credits
BIOL 201	Intro Biology: Flow of Biology Information	4 credits
Electives from list below (4 must have PH prefix and 4 must be upper division)		12 credits

TOTAL: 49 credits

Bachelor of Science in Public Health: Requirements for Major

PH 101	Public Health	4 credits
PH 200	Epidemiology	4 credits
PH 310	Social Foundations of Population Health	4 credits
PH 352	Program Development and Evaluation	4 credits
PH 370	Pre-Field Experience Seminar	1 credit
PH 380	Public Health Field Experience	4 credits
PH 491	Capstone I	2 credits
PH 492	Capstone II	2 credits
SOC 301	Social Statistics	4 credits
OR		
MATH 207	General Elementary Statistics	4 credits
BIOL 200	Intro Biology: Flow of Energy	4 credits
BIOL 201	Intro Biology: Flow of Biology Information	4 credits

CHEM 220	General Chem I	4 credits
CHEM 230	General Chem II	4 credits
Electives from the list below (4 must have PH prefix and 4 must be upper division)		4 credits

TOTAL: 53 credits

ELECTIVES

ANTH 302	Designing Ethnography	4 credits
BA 309	Marketing	4 credits
CIV 233	Healthy Communities	2 credits
CIV 317	Grant-writing/Non-profits	2 credits
ENV 270	Geospatial Analysis using GIS	4 credits
ENV 344	Environmental Toxicology	2 credits
ENV 361	Environmental Toxicology Methods	1 credit
EXIP 281	Nutrition	4 credits
EXMB 303	Medical Terminology	1 credits
HBIO 230	Human Anatomy & Physiology I	4 credits
MEDA 109	Introduction to Communication Design	2 credits
MEDA 122	Introduction to Digital Media	2 credits
POLS 304	Community Politics	4 credits
POLS 310	Markets, Politics, & Justice	4 credits
POLS 321	Protest, Dissent, and Social Change	4 credits
PSY 202	Health Psychology	4 credits
PSY 208	Addictions and Society	4 credits
PSY 310	Community Psychology	4 credits
SOC 300	Qualitative Research	4 credits
SOC 302	Survey Research	4 credits
SOC 319	Sociology of Medicine	4 credits
SOCWK 320	Human Behavior in the Social Environment	4 credits

International and Diverse Perspectives (6 credits, B.A. and B.S.): Take at least 6 credits of courses designated IP and/or DP or study abroad (SA 476 credits). The first IP/DP course will also count toward the core IP/DP requirement.

Ethics (at least 2 credits, B.A. and B.S.): Take one of the following courses.

PHIL 202	Ethics and Society	4 credits
PHIL 240	Human Rights	2 credits
PHIL 307	Ethics, Medicine & Health Care	4 credits

TOTAL CREDITS required:

B.A.: 57-59

B.S.: 61-63

REQUIRED COURSES

Minor – 12 credits

The Public Health minor must complete the following required courses with a grade of C- or better and maintain a 2.0 average in the minor.

PH 101	Public Health	4
One course from the following		
SOC 301	Social Statistics	4
OR		OR
MATH 207	General Elementary Statistics	4
PH 200	Epidemiology	4

ELECTIVES

12 credits (minimum 8 credits upper division, 4 must be upper division with PH prefix)

PH	All other PH courses	4
ANTH 302	Designing Ethnography	4
BA 309	Marketing	4
BIOL 200	Intro Biology: Flow of Energy	4
BIOL 201	Intro Biology: Flow of Biology Information	4
CIV 233	Healthy Communities	2
CIV 317	Grant-writing/Non-profits	2
ENV 270	Geospatial Analysis using GIS	4
ENV 344	Environmental Toxicology	2
ENV 361	Environmental Toxicology Methods	1
EXIP 281	Nutrition	4
EXMB 303	Medical Terminology	1
HBIO 230	Human Anatomy & Physiology I	4
MEDA 109	Introduction to Communication Design	2
MEDA 122	Introduction to Digital Media	2
PHIL 202	Ethics and Society	4
PHIL 240	Human Rights	2
PHIL 307	Ethics, Medicine & Health Care	4
POLS 304	Community Politics	4
POLS 310	Markets, Politics, & Justice	4

POLS 321	Protest, Dissent, and Social Change	4
PSY 202	Health Psychology	4
PSY 208	Addictions and Society	4
PSY 310	Community Psychology	4
SOC 300	Qualitative Research	4
SOC 302	Survey Research	4
SOC 319	Sociology of Medicine	4
SOCWK 320	Human Behavior in the Social Environment	4

TOTAL CREDITS required:
minor: 24

COURSES

PH-101 Public Health

Provides an introduction to public health concepts, philosophy, history and activities. Practice-related exercises allow students to experience real-world public health problem-solving and to learn how to understand, analyze and communicate effectively about the health and wellbeing of various populations. This course draws upon health sciences, social sciences and humanistic approaches to addressing global health challenges. 4 credits.

PH-200 Epidemiology

Epidemiology is a core discipline of public health which focuses on the patterns of health and disease in populations. Students learn the basic tools of epidemiological analysis and how to use data to describe disease and injuries. This course explores how, epidemiology plays a vital role in public health, clinical medicine, health education and health policy. Attention is also given to the application of evidence-based public health to intervention strategies and public policy. Prerequisite: MATH 122. Statistics course (MATH 207, SOC 301, or PSY 350) recommended. 4 credits.

PH-204 Prep Samoa: Well-Being & Culture

This two-credit course will prepare students for a two-week travel course to Samoa. The preparation course will focus on immersing students in the ethnography of Samoa and Samoan social issues. We will also develop research questions, methods, and IRB protocols if necessary before traveling. Students will demonstrate general knowledge about Samoa and the region. Corequisite: ANTH 205. Counts toward core requirement: International Perspectives. Offered alternate years. 2 credits.

PH-205 Travel Samoa: Well-being & Culture

This 2-week travel course immerses students in the culture of Samoa. Students can explore Samoa through ethnographic research on a variety of topics including, but not limited to, health, gender/sexuality, education, dance, sport, youth issues, music, religion, food, migration, globalization, or (eco)tourism. Students will conduct semi-independent research projects. Several excursions will complement students' research. Students will demonstrate general knowledge about Samoa and the region. Corequisites: ANTH 204. Counts toward core requirement: International Perspectives. Offered alternate years. 2 credits.

PH-225 Peer Health Education

This course introduces students to a variety of wellness topics related to health education, including: alcohol and other drugs, healthy relationship promotion, sexual and relationship violence prevention, stress management, and other relevant health issues. Further, this course prepares the student for an active role as a peer health educator through developing knowledge and skills requisite to providing individual and community-based peer health education, fostering a healthy campus culture, and empowering positive change. Emphasis will be placed on the application of health education models of individual and community behavior change, communication and conflict resolution skills, providing culturally sensitive and relevant education, crisis recognition and strategies for providing appropriate referrals. Also listed as SOCWK 225. 4 credits.

PH-248 Public Health, Private Bodies

This course explores the changing relationship between institutional and societal efforts to maintain public health, contemporary knowledge about human bodies, disease, and "health," and the efforts by individuals and local communities to control their own health through the course of American history. Students will confront the efforts by the state and institutions to expand their power and deploy their knowledge in efforts to control unsanitary environments, the ways in which new forms of technology has transformed the healthiness of environments, as well as the ways in which that this knowledge of bodies and health was informed by historical understandings of poverty, of race, and of gender. Also listed as HIST 248. 4 credits.

PH-255 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

PH-295 Independent Study

See department for details. Independent study contract required. 1-6 credits.

PH-300 Research Methods in Public Health

This course will present an overview of research methods within public health, emphasizing the steps involved in the research process. Methodological issues covered will include the ethics of health studies research, qualitative and quantitative research designs, operationalization of concepts, measurement of variables, and techniques of sampling, data collection and analysis. Prerequisite: PH 200 and a statistics course (MATH 207, SOC 301, or PSY 350). 4 credits.

PH-304 Prep Samoa: Well-being & Culture

This two-credit course will prepare students for a two-week travel course to Samoa. The preparation course will focus on immersing students in the ethnography of Samoa and Samoan social issues. We will also develop research questions, methods, and IRB protocols if necessary before traveling. Students will develop an argument/stance on particular aspects of Samoan culture. Corequisite: ANTH 305. Counts toward core requirement: International Perspectives. Offered alternate years. 2 credits.

PH-310 Social Foundations of Population Health

Despite popular conceptions that health status is directly attributable to medical care, other factors such as behavior, social circumstances, and environment exert greater influence on population health. This course introduces students to these social determinants of health - the ways that social processes affect health, with special attention to disparate health status among population groups based on categories such as gender, socioeconomic status, and race/ethnicity/nativity. Major topics include the pursuit of health equity in public health practice and public policy as a driver of community health. Prerequisite: PH 101, ANTH 101, SOC 110, SOC 120, SOC 130, or SOC 150. 4 credits.

PH-311 Medicine, Body and Culture

This course is an introduction to critical areas of inquiry in medical anthropology. By examining the socio-cultural dimensions of sickness and healing cross-culturally, we will explore how anthropologists have approached historical and contemporary problems in the global field of medicine. While our course trajectory will lead us to treat Western biomedicine as only one among many systems of meaning and authority, we will also spend some time deconstructing the often unspoken assumptions that govern this field, thereby complicating the notion that the latter is somehow insulated from the reach of culture. We will also focus on issues of power, inequality, and gender and health. Pre-requisite: ANTH-101, GSS-201, SOC-101, ANTH-140, SOC-217, or PH-101. Counts toward core requirement: International Perspectives, Diverse Perspectives, Civic Engagement. 4 credits.

PH-320 Environmental Health

This course incorporates not only the common concepts associated with environmental health (population dynamics, air pollution, water pollution, land pollution) but also emerging and controversial issues associated with environmental threats to human health, such as emerging diseases, global warming, and biological and chemical weapons. Emphasis is on biological, chemical, and physical sources of exposures, the effects on human health, and the methods of limiting exposures and effects especially in issues of environmental justice. Prerequisite: PH 101, SOC 110, SOC 120, SOC 130, SOC 150, or ANTH 101. 4 credits.

PH-325 Global Health

Designed to provide an overview of global health problems and provide the tools to navigate the work of international health. The course focuses on the global burden of disease and the pattern of disease variations between and within countries. Global health addresses poverty, environmental issues and globalization on the impact on health status. Prerequisite: PH 101, SOC 110, SOC 120, SOC 130, SOC 150, or ANTH 101. 4 credits.

PH-330 Promoting Community Health

Provides an overview of community health promotion topics, with a focus on practical skills in community collaboration and needs assessment. Topics will include community mobilization, leadership and advocacy, community needs assessment, and models for promoting community change. The course will also discuss the breadth of settings and diverse populations relevant to community health practice. Students will collaborate with community partners to complete a community-based semester project; the project will include 15 hours outside of the classroom collecting data. Prerequisites: PH 101, SOC 101, SOC 102 or ANTH 101. 4 credits.

PH-334 Health Economics

Students in the health economics course will apply economic theory and empirical analysis to study how socioeconomic status, public policy actions, and individual decisions influence health outcomes. The economics of private insurance markets comprises another important area of study in the course. The functions and outcomes in the United States health care system will be studied in detail and compared with those in other nations. Also listed as ECON 334. Prerequisite: ECON 102. 4 credits.

PH-343 Food, Fat, and Fitness

The United States is a culture obsessed with food, fat, and fitness. As efforts to reduce obesity increase, rates of obesity actually increase. Why is that? This anthropology course depends heavily on interdisciplinary perspectives to explore the connections between body size and culture, examining food, fat, and fitness not just as public health issues but as culturally and historically constructed categories related to gender, race, sexuality, and class. While we will explore biocultural approaches to obesity, this course is not a biomedical study of the "obesity epidemic." Instead we examine the discourses and vocabulary used to describe this current "crisis." Also listed as GSS 343 and ANTH 343. Prerequisites: ANTH 101, GSS 201, SOC 101, ANTH 140, SOC 217, or PH 101. Offered alternate years. 4 credits.

PH-350 Religion & Social Health Policy

Introduces students to the ways in which religious traditions impact public health policies, mostly within the context of the United States. Students will become more familiar with public health as a concept and will review theological and policy statements on public health issues, mostly within the Abrahamic faith traditions (Christianity, Judaism, and Islam), which display a remarkable diversity of thought. Also listed as REL 350. Prerequisite: ANTH 140, REL 140, or PH 101. 2 credits.

PH-351 Social Policy & Social Justice

This course provides an examination of both the historical and contemporary context of social welfare policies and programs. The course will examine how legislation is developed, enacted, and implemented in our society, including how policies have emerged in response to social problems at the local, national, and international levels. Issues of social justice, and how policies and programs affect populations at risk, will be emphasized. U.S. social welfare policy will be examined in a global and human rights context. Also listed as SOCWK 351 and POLS 351. Prerequisite: SOCWK 201 with a minimum grade of C-. 4 credits.

PH-352 Program Development and Evaluation

This introductory course in Program Development & Evaluation (PDE) covers the role of PDE in public health and social work settings. Emphasis will be placed on: building logic models to articulate program theories; identifying, working with, and reporting to stakeholders; conducting needs and impact assessments; critiquing the strengths and weaknesses of popular evaluation designs; and using evaluation data. Also listed as SOC 352 and SOCWK 352. Prerequisite: Junior standing or above (60 or more completed credits), PH 101, SOC 110, SOC 120, SOC 130, or SOC 150, or ANTH 101; and SOC 301 or MATH 207 (may be taken concurrently). 4 credits.

PH-355 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

PH-370 Pre-Field Experience Seminar

The focus of this course is to assist students in preparing for the public health field placement experience. Students will complete the tasks necessary for obtaining a practicum site including identifying appropriate field sites, preparing a resume, and interviewing prospective field placements. Prerequisite: Declared Public Health major and junior standing or above (60 or more completed credits). Pass/No Pass. 1 credit.

PH-380 Public Health Field Experience

Students complete a 100-hour civic engagement field experience under the supervision of a public health professional; placements are arranged in consultation with Public Health Program staff. A learning contract with the host agency guides students' individualized field learning. Field learning is complemented by reflective and analytical writing along with group discussion. To enable diverse field learning settings, group learning activities take place primarily online. This course may be taken in either the spring of the junior year or fall of the senior year. Prerequisite: Junior standing or above (60 or more completed credits), PH 101, PH 200, and PH 352 (may be taken concurrently). Students with senior standing may co-enroll in PH 491. Counts toward core requirement: Civic Engagement. 4 credits.

PH-395 Independent Study

See department for details. Independent study contract required.

PH-475 Internship

See department for details. Internship contract required.

PH-480 Independent Practicum Fieldwork

Combines field-based learning with development of a related senior project. Students complete a 100-hour practicum in an approved placement under the supervision of an agency staff member in consultation with a Public Health faculty member, providing the opportunity to integrate theoretical and applied learning in a community setting. Students complete a learning agreement to guide their individualized learning experiences and maintain a field journal reflecting on progress toward individual learning objectives. This course, in combination with PH 481 and PH 491, is an alternative path to completing the capstone, fieldwork, and seminar requirements for the major under certain circumstances. See the department chair for details. Prerequisites: declared Public Health major and instructor consent. 2 credits.

PH-481 Independent Practicum Seminar

Students will reflect on their learning in the field placement and complete assignments and readings intended to enhance the practicum experience and reinforce academic and civic engagement objectives for the course series. This course, in combination with PH 480 and PH 491, is an alternative alternative path to completing the capstone, fieldwork, and seminar requirements for the major under certain circumstances. See the department chair for details. Prerequisites: Declared Public Health major, PH 480, and instructor consent. Counts toward core requirement: Civic Engagement. 2 credits.

PH-490 Capstone I: Practicum & Senior Project

Combines field-based learning with development of a related senior project. Students will complete a 100 hour practicum in an approved placement under the supervision of an agency staff member in consultation with a Public Health faculty member, providing opportunity for integration of theoretical and applied learning in a community setting. Students will complete a learning agreement to guide their individualized learning experiences. Students will meet with the instructor and other public health students in a weekly seminar setting to discuss their work in the field placement, as well as assignments and readings intended to enhance the practicum experience. In addition, this course will assist students in selecting an area of focus related to the practicum to define their senior project, to complete a literature review, and to develop a proposal or methodology for the project. This course is required of all public health majors in their final year. Prerequisites: Senior standing, declared Public Health major, PH 200, PH 352. Counts toward core requirement: Civic Engagement. 6 credits.

PH-491 Capstone I: Senior Project

The focus of this course is to assist students in selecting an area of interest in order to define their senior project, complete background research and literature review, and develop a proposal or methodology for the project. This course is required of all public health majors in their final year. Prerequisite: Declared Public Health major, senior standing (90 or more completed credits), PH 200, PH 352, and PH 380 (may be taken concurrently). 2 credits.

PH-492 Capstone II: Senior Project

Students further refine and develop their senior project. Students complete their program plan or data analysis. In addition, students create professional products for presenting their work, including written and oral presentation of their project. This course is required of all public health majors in their final year. Prerequisite: Senior Standing (90 or more completed credits) and PH 491. 2 credits.

SOCIAL WORK

Don Schweitzer, Chair & BSW Program Director; Michelle Pliske, BSW Field Education Director; Jessica Ritter

The Social Work major is offered through the Department of Social Work and Public Health. Also offered through this department is a major in Public Health.

The Social Work Program at Pacific University provides students with the knowledge, values, and skills necessary for culturally sensitive generalist social work practice. The BSW curriculum is designed to prepare students to provide services that advance the well-being of people; promote social and economic justice; and enhance the social functioning of individuals, families, groups organizations, and communities. It is our desire to provide students with both academic and field based experiences that allow the student to integrate theoretical and applied knowledge in order to engage in the planned change process at the micro, mezzo, and macro levels of practice. These experiences take place in the context of a broad liberal arts foundation. The small class sizes at Pacific allow for individual attention from professors, and our geographic location provides opportunities to explore social work in both rural and urban settings.

Goals:

- To prepare students for beginning generalist baccalaureate level social work practice with client systems of all sizes
- Lay a foundation that prepares students for graduate level social work education or beginning practice with a commitment to life-long learning and ongoing professional development.
- To promote social and economic justice
- Develop new social work knowledge and provide service and leadership to the community.

Program Learning Outcomes

Our Student Learning outcomes are set forth from the Educational Policy and Accreditation Standards of the Council on Social Work Education (CSWE). Specifically, the bachelor of social work program at Pacific seeks to prepare students to achieve the following competencies:

- Competency 1: Demonstrate Ethical and Professional Behavior
- Competency 2: Engage Diversity and Difference in Practice
- Competency 3: Advance Human Rights and Social, Economic, and Environmental Justice
- Competency 4: Engage In Practice-informed Research and Research-informed Practice
- Competency 5: Engage in Policy Practice
- Competency 6: Engage with Individuals, Families, Groups, Organizations, and Communities
- Competency 7: Assess Individuals, Families, Groups, Organizations, and Communities
- Competency 8: Intervene with Individuals, Families, Groups, Organizations, and Communities
- Competency 9: Evaluate Practice with Individuals, Families, Groups, Organizations, and Communities

Social Work: Requirements for the Major

Students interested in majoring in Social Work must apply to the major. Application materials are available from faculty members of the Social Work program and are also available on the social work program's homepage on the Internet.

The following core courses must be completed with a grade of "C-" or better and a 2.75 average must be maintained in the major.

PSY 150	Introduction to Psychology	4 credits
One course from the following:		
SOC 110	Understanding the Apocalypse	4 credits
SOC 120	Image, Society, and Identity	4 credits
SOC 130	Stump the Sociologist	4 credits
SOC 150	Special Topics	4 credits
SOCWK 201	Principles of Social Work	4 credits
SOCWK 310	Social Work Research Methods	4 credits
One course from the following:		
SOC 301	Social Statistics	4 credits
PSY 350	Behavioral Statistics	4 credits
MATH 207	General Elementary Statistics	4 credits
SOC 302	Survey Research	4 credits
SOCWK 300	Micro Social Work Practice	4 credits
SOCWK 301	Macro Social Work Practice	4 credits
SOCWK 320	Human Behavior in the Social Environment	4 credits
SOCWK 325	Counseling and Interviewing Techniques	4 credits
SOCWK 351	Social Policy and Social Justice	4 credits
SOCWK 480	Pre-Practicum Seminar	1 credit
SOCWK 481	Social Work Practicum	12 credits

Eight credits from the following list. Additional elective courses will be considered with approval from the Social Work Program Director.

ANTH 101	Introduction to Anthropology
ANTH 311	Medicine, Body, and Culture
CJLS 200	Criminal Justice
DS 204	Working with People with Disabilities
GSS 200	Introduction to Queer Studies
GSS 201	Introduction to Gender & Sexuality
GSS 217	Gender & Sexuality
HUM 325	Hispanics in the United States
MT 190	Introduction to Music Therapy
PH 330	Promoting Community Health
POLS 321	Protest, Dissent, and Social Change
PSY 202	Health Psychology
PSY 208	Addictions & Society
PSY 211	Abnormal Psychology

PSY 240	Child Development
PSY 358	Psychology of Ethnic Diversity in the U.S.
PSY 361	Psychology of Gender
PSY 445	Children & Violence
SOC 304	Criminology
SOC 305	Racism & Ethnicity in Hawaii
SOC 309	Families
SOC 312	Social Interaction
SOC 315	Gender and Sexuality
SOC 318	Racism & Ethnicity in Hawaii Travel
SOC 319	Sociology of Medicine
SOC 333	Drugs & Society
SOC 347	Global Cap Neo-Colonial Inequalities
SOC 360	Critical Race Theory
SOC 366	Deviance
SOCWK 215	Conflict Resolution
SOCWK 216	Basic Mediation
SOCWK 355	Special Topics

TOTAL: 61 credits

The Social Work Program does not give academic credit for life or previous work experience.

COURSES

SOCWK-155 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

SOCWK-201 Principles of Social Work

This course provides an introduction to the field of social work practice with an emphasis on the historical and political development of social work as well as the values and ethics that guide social work practice. Students will explore possible career opportunities in the field of social work and will be required to complete a 40 hour field experience at an approved social service agency. Counts toward core requirement: Civic Engagement. 4 credits.

SOCWK-215 Conflict Resolution

Theories, strategies, and skills in resolving conflicts are analyzed and applied. Emphasis is placed on practical application of learned skills through conflict simulations. 2 credits.

SOCWK-220 Preparation for Travel to Costa Rica

This is a course that will prepare students for Travel in Costa Rica (SOCWK 221). However, the course is also open to students interested in the course content, but who do not plan to travel. This course will provide students with the information necessary to help them get the most of their travel experience. The content will cover the basic history, religion, culture, geography, and politics of Costa Rica. Prerequisite: SOC 101, SOC 102, or SOCWK 201. Counts toward core requirement: International Perspectives. 2 credits.

SOCWK-221 Travel to Costa Rica

The course will focus on the global issue of human rights with an emphasis on the Costa Rican experience. Over the course of two weeks, students will be immersed in the Costa Rican culture. Students will live with a Costa Rican ("Tico") family. Lectures on the culture of Costa Rica and the history of its human rights challenges and efforts will occur as well as opportunities for students to explore their own perspectives on human rights. Students will visit agencies in the community whose mission is to serve vulnerable populations and will participate in a service project. The class will meet weekly during the Spring semester and then travel after the Spring semester ends in May. This travel course in Costa Rica is scheduled for a two-week period in June. This two-week program will provide a total of 40 hours of Spanish language classes, 16 hours of cultural classes and activities, and a couple of fun excursions. Prerequisite: SOC 101, SOC 102, or SOCWK 201. Corequisite: SOCWK 220. Counts toward core requirement: International Perspectives. 2 credits.

SOCWK-225 Peer Health Education

This course introduces students to a variety of wellness topics related to health education, including: alcohol and other drugs, healthy relationship promotion, sexual and relationship violence prevention, stress management, and other relevant health issues. Further, this course prepares the student for an active role as a peer health educator through developing knowledge and skills requisite to providing individual and community-based peer health education, fostering a healthy campus culture, and empowering positive change. Emphasis will be placed on the application of health education models of individual and community behavior change, communication and conflict resolution skills, providing culturally sensitive and relevant education, crisis recognition and strategies for providing appropriate referrals. Also listed as PH 225. 4 credits.

SOCWK-255 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

SOCWK-268 Trinidad Culture & Society

Designed to prepare students for travel to Trinidad and Tobago in the Winter Term (ANTH/SOCWK 368). The course covers various features of Trinidad and Tobago's history from its early imperial encounter to its present post-colonial condition. Additionally, the class covers contemporary culture and local and global political economy. Perhaps most importantly, the course requires students to create a research project to be implemented as field research in Trinidad and Tobago. In this sense, the course is preparation for what anthropologists and social workers would refer to as a 'field methods' class. For this element of the class, students must create a research project, conduct preliminary textual and internet research, and begin making contacts in Trinidad and Tobago. Students therefore must be fully prepared at the end of this course to conduct self-directed, ethnographic research in Trinidad and Tobago. Also listed as ANTH 268. Offered alternate years during Fall. 4 credits.

SOCWK-275 Internship

See department for details. Internship contract required. 1-4 credits.

SOCWK-300 Micro Social Work Practice

This course focuses on the change process at the three levels of social work practice (individual, family and group). Students will acquire specific skills which will assist them in assessing, contacting, working with and terminating some clients. Prerequisite: SOCWK 201 with a minimum grade of C-. 4 credits.

SOCWK-301 Macro Social Work Practice

This course will help students acquire specific skills that will assist them in carrying out the planned change process at the macro level of social work practice. Community practice is heavily emphasized, and students will work together to carry out a social justice class project, which will consist of at least 25 hours of group work outside of the course. Prerequisite: Junior standing or above (60 or more completed credits) and SOCWK 201 with a minimum grade of C-. Counts toward core requirement: Civic Engagement. 4 credits.

SOCWK-310 Social Work Research Methods

Introduction to qualitative and quantitative social work research skills fundamental to the development and critical use of information relevant to social work practice decision-making and evaluation. Students will be prepared to understand and utilize research findings to inform and enhance their practice and to carry out their own evaluation and research. The course will cover all phases of the research process including the development of research questions, research design, data collection, and analysis. Ethical issues in research will also be explored. Prerequisite: SOCWK 201. 4 credits.

SOCWK-320 Human Behavior in Social Environment

This course provides an introduction to the various theories related to human behavior in the social environment in the context of a life span developmental perspective. The relationship between social, biological, psychological, environmental and cultural systems will be analyzed as they relate to the "person-in-environment" foundation of professional social work practice. Prerequisite: SOCWK-201 with a minimum grade of C-. 4 credits.

SOCWK-325 Counseling & Interviewing Techniques

The purpose of this course is to familiarize students with fundamental counseling and interviewing techniques according to the major psychosocial theories. Students will also examine the impact of diversity, self-awareness, and use of self on the counseling process. Prerequisite: SOCWK 201 with a minimum grade of C- or PSY 211 with a minimum grade of C-. 4 credits.

SOCWK-351 Social Policy & Social Justice

This course provides an examination of both the historical and contemporary context of social welfare policies and programs. The course will examine how legislation is developed, enacted, and implemented in our society, including how policies have emerged in response to social problems at the local, national, and international levels. Issues of social justice, and how policies and programs affect populations at risk, will be emphasized. U.S. social welfare policy will be examined in a global and human rights context. Also listed as POLS 351 and PH 351. Prerequisites: SOCWK 201 with a minimum grade of C-. 4 credits.

SOCWK-352 Program Development and Evaluation

This introductory course in Program Development & Evaluation (PDE) covers the role of PDE in public health and social work settings. Emphasis will be placed on: building logic models to articulate program theories; identifying, working with, and reporting to stakeholders; conducting needs and impact assessments; critiquing the strengths and weaknesses of popular evaluation designs; and using evaluation data. Also listed as SOC 352 and SOCWK 352. Prerequisite: Junior standing or above (60 or more completed credits), PH 101, SOC 101, SOC 102, OR ANTH 101. Corequisites: SOC 301 OR MATH 207. 4 credits.

SOCWK-355 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

SOCWK-368 Trinidad Culture & Society: Travel

Travel course to Trinidad and Tobago. The class is designed so that students are, in many ways, the primary architects of their travel experience. They design their own research projects, set goals for conducting and completing their projects, meet with Trinidadians they contacted themselves, and analyze the data they collected. In essence then, this course serves as a field methods class in Social Science, though open to all majors. The course blends scientific methods, critical philosophical inquiry, and literary writing practices to help students become creative and critical thinkers as well as internationally engaged and aware citizens. Also listed as ANTH 368. Prerequisites: ANTH 268 or SOCKW 268. Counts towards core requirement: International Perspectives. Offered alternate years during Winter. 2 credits.

SOCWK-395 Independent Study

See department for details. Independent study contract required.

SOCWK-450 Directed Research in Social Work

Directed Research in Social Work allows students of advanced standing to participate in a research project with a social work faculty member in order to gain practical experience in the conduct of ongoing professional-level social work research. Prerequisite: Junior standing or above (60 or more completed credits). Instructor's consent required. May be repeated for credit, up to 6 credits total. 1-4 credits.

SOCWK-480 Pre-Practicum Seminar

The focus of this course is to assist students in preparing for the social work senior practicum experience. Students will complete the tasks necessary for obtaining a practicum site including resume preparation and interviewing with prospective field sites. Prerequisite: 20 credits in required SOCWK and SOC courses. 1 credit.

SOCWK-481 Social Work Practicum

This course will provide students with an opportunity to integrate theoretical and clinical learning in an agency setting. Students will complete a 440 hour practicum in an approved agency over two semesters under the supervision of an agency staff member in consultation with a social work faculty member. Students will complete a signed learning agreement prior to beginning the practicum that will guide their individualized learning experiences. Students will be required to meet with the instructor and other social work students in a weekly seminar setting to discuss their experience in the field placement. In addition to hours spent working in the field, students will be expected to complete assignments and readings intended to enhance the practicum experience, including the Senior Capstone project. Prerequisite: SOCWK 480. May be repeated once for credit. 6 credits.

SOCIOLOGY

Jaye Cee Whitehead, Chair; Daniel Eisen, Aaron Greer, Jessica Hardin, Sarah Phillips, Adam Rafalovich, Taryn VanderPyl

The Sociology major and minor are offered through the Department of Sociology, Anthropology and Criminal Justice, Law and Society. Also offered through this department are majors in Anthropology and Criminal Justice, Law and Society. Minors are available in Sociology, Anthropology, Criminal Justice, Law and Society and Comparative Religion.

The major in sociology provides extensive knowledge about culture, social institutions, and everyday interaction as these shape identity, behavior, social systems, and social inequality. Sociology majors are trained in qualitative and quantitative research skills along with tools for advanced critical thinking and theoretical application. The program contributes to a liberal arts education, prepares students for graduate training in sociology, civic and community engagement, and prepares students for careers in law, social services and related fields.

Program Learning Outcomes

Students who complete a major in sociology can:

- (1) exercise the sociological imagination - observing the relationship between individuals and historical, cultural, and social forces
- (2) perceive how one's particular life experiences are shaped by social economic status, age, race, ethnicity, gender, sexuality, religion and subculture
- (3) demonstrate a basic knowledge of the mechanisms that underpin social inequality
- (4) demonstrate a basic understanding of the important theoretical models of the discipline
- (5) demonstrate a basic understanding of quantitative and qualitative methods
- (6) demonstrate a basic understanding of the academic sociological literature as it relates to contemporary social issues
- (7) apply sociological understandings to public debates and community programs
- (8) understand social processes that contribute to social change
- (9) articulate sociological ideas to a lay audience
- (10) demonstrate an ability to gather and analyze data
- (11) demonstrate an introductory understanding of how to present original research for an academic audience in oral and written form.
- (12) demonstrate an ability to design and propose original research in sociology.

Sociology: Requirements for the Major

The Sociology major must complete the following courses with a grade of C- or better and maintain a 2.0 average in the major.

One of the following: 4 credits

SOC 110	Understanding the Apocalypse
SOC 120	Image, Society, and Identity
SOC 130	Stump the Sociologist
SOC 150	Special Topics in Introductory Sociology

One of the following: 4 credits

SOC 202	Public Sociology
SOC 203	Social Change (CE)
SOC 250	Special Topics in Public Sociology

Two of the following: 8 credits

SOC 300	Qualitative Research 4 credits
SOC 301	Social Statistics 4 credits
SOC 302	Survey Research 4 credits

All of the following: 14 credits

SOC 323	Junior Seminar 2 credits
SOC 414	Sociological Theory 4 credits
SOC 490	Advanced Research Methods 4 credits
SOC 454	Senior Seminar 2 credits
SOC 495	Senior Thesis 2 credits

Sixteen additional credits in sociology which must include at least twelve credits of 300+ level courses. Anthropology courses by approval.

TOTAL: 46 credits

Sociology: Requirements for the Minor

The Sociology minor must complete the following courses with a grade of C- or better and maintain a 2.0 average in the major.

One of the following: 4 credits

SOC 110	Understanding the Apocalypse
SOC 120	Image, Society, and Identity
SOC 130	Stump the Sociologist
SOC 150	Special Topics in Introductory Sociology

One of the following: 4 credits

SOC 202	Public Sociology
SOC 203	Social Change (CE)
SOC 250	Special Topics in Public Sociology

Twelve additional credits in sociology, which must include at least eight credits of 300+ level courses. Anthropology courses by approval.

TOTAL: 20 credits

Any student interested in a Sociology minor should consult with a faculty member in the Sociology Department before the end of the sophomore year.

COURSES

SOC-110 Understanding the Apocalypse

Will introduce foundational sociological concepts through the examination of various social narratives that comprise apocalypse discourse. To this aim, this course will examine various apocalypse scenarios as extensions of the key sociological variables of race, sexuality, class, ethnicity, gender, religion, and a variety of intersectionalities. Apocalypse narratives have been a part of human civilization for millennia and are firmly grounded within a cultural milieu. Our goal during our time together will be to examine these narratives, and analyze them within a historical/cultural context. Major apocalypse scenarios will be investigated, including: zombies, technology (rise of artificial intelligence, Y2K), plagues, nuclear weapons, global warming, and extraterrestrial phenomena (meteors, aliens). 4 credits.

SOC-120 Images, Society, and Identity

Will introduce students to some of the conceptual foundations in sociology through the analysis of various visual media found in historical and contemporary society. Throughout the semester, we will focus upon the various ways that such media impact individuals and social institutions. Virtually no aspect of visual culture is off-limits to this analysis. To this aim, we will analyze various visual media as a way of elucidating the key social variables of race, class, and gender, and a whole host of important intersectionalities. The course will begin with an introduction to foundational sociological concepts, and use these concepts throughout the semester to understand the prevalence, impact, and staying power of visual culture. 4 credits.

SOC-130 Stump the Sociologist

An inquiry-based course encouraging students to think like sociologists by pushing the discipline to answer difficult questions about human behavior, sociocultural systems, social inequality, and everyday life. Along the way, students will learn concepts and techniques for understanding persistent inequalities by race, gender, sexuality, and age; the relationships between the individual and the social; and the maintenance of social order and conflict. 4 credits.

SOC-150 Special Topics in Introductory Sociology

This is a special topics introductory sociology course. Specific topics will be designated by the department in order to cover basic concepts, theories, and methods of sociology. 4 credits.

SOC-155 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

SOC-202 Public Sociology

Students will learn how and why sociologists apply academic findings to public issues. Students will study examples of sociological works written for a public audience that address contemporary social problems. Students will be introduced to methods for translating academic concepts and research findings for a lay audience. The importance of the sociological imagination as a discourse for civil society will be emphasized throughout the course. Prerequisite: SOC 101, SOC 102, SOC 110, SOC 120, SOC 130, or SOC 150. Course offered biennially. 4 credits.

SOC-203 Social Change

Will provide students with a sociological lens through which they can understand the processes of social change. Students will be exposed to sociological theory and research that examines how social change occurs and fails. Students will develop their ability to develop a sociologically informed opinion about various social issues and articulate that opinion to a general audience. Finally, students in this class will design and implement a civic engagement project about social change. Prerequisite: SOC 101, SOC 102, SOC 110, SOC 120, SOC 130, or SOC 150. Course offered biennially. 4 credits.

SOC-250 Special Topics in Public Sociology

Special topics course in public sociology. The topical focus of the course will be determined by the sociology department in order to provide students with the skills needed to apply sociological reasoning to contemporary public issues and convey these applications to a general public. Prerequisite: SOC 101, SOC 102, SOC 110, SOC 120, SOC 130, or SOC 150. Can be repeated for credit. Course offered biennially. 4 credits.

SOC-255 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

SOC-275 Internship

See department for details. Internship contract required. 1-4 credits.

SOC-295 Independent Study

See department for details. Independent study contract required. 1-6 credits.

SOC-300 Qualitative Research

Students will be introduced to techniques for qualitative data collection and analysis in the social sciences. Data collection techniques taught include: in-depth interviews, ethnography, participant observation, focus groups, and content analysis. The course will provide instruction on how to code and analyze qualitative results. It will also include material regarding research-question design and writing a scholarly literature review. Prerequisite: SOC 101, SOC 102, SOC 110, SOC 120, SOC 130, or SOC 150. Course offered annually. 4 credits.

SOC-301 Social Statistics

Introductory statistics course for students in the social sciences. The emphasis of the course will be on understanding how social scientists use numerical data to understand social phenomena, and how to use and interpret statistical measures and techniques commonly reported in the social sciences literature. Prerequisite: MATH 122. Does not meet Social Sciences core requirement (2010 catalog). 4 credits.

SOC-302 Survey Research

This course will introduce students to the skills needed to conduct survey research in the social sciences. The course will examine the logic of quantitative research, techniques for designing reliable and valid survey instruments, sampling in survey research, and analysis and presentation of survey data. Prerequisites SOC 101, SOC 102, SOC 110, SOC 120, SOC 130, or SOC 150. Course offered biennially. 4 credits.

SOC-304 Criminology

This course is a general introduction to the social science known as criminology. This discipline, largely a composite of anthropology, psychology, and sociology, places particular focus on the phenomenon of crime in society. Examples of questions criminologists ask are: What defines crime? Who are the ones that commit crime and for what reasons? What are some of the established patterns of criminal behavior we see over time? And, what are some mechanisms society uses to regulate, punish or control crime? Because this course is taught from a sociological angle, particular emphasis will be placed upon viewing crime as a societal phenomenon, that is, one that can be analyzed within a broader social context. Prerequisite: SOC 101, SOC 102, SOC 110, SOC 120, SOC 130, or SOC 150. 4 credits.

SOC-305 Racism & Ethnicity in Hawaii

This course focuses on the creation of race, ethnicity, and racism in Hawaii and examines how these concepts affect the culture, social structure, and social institutions in Hawaii. The course focuses on the historical and contemporary experiences of native Hawaii and other Asian/Pacific Islander ethnic groups that comprise Hawaii's population. The course will include discussions about native Hawaiian culture, the colonization of Hawaii, the ethnic structure that was further developed in Hawaii during Hawaii's plantation era, and how these complex histories inform and affect the current ethnic social structures and practices (e.g. education, politics, criminal justice system, ethnic humor, etc.) that exist in Hawaii. Overall, the course will expose students to the lived experiences of the various ethnic groups that constitute Hawaii's population and provide students with an understanding of how Hawaii's unique history affects the life chances of the different ethnic groups in Hawaii. It will also prepare students for a travel course (SOC 318) that provides students with first-hand experiences of race and ethnicity in Hawaii. When offered for 4 credits, topics will be explored in more depth. Prerequisite: SOC 101, SOC 102, SOC 110, SOC 120, SOC 130, or SOC-150. Counts toward core requirement: Diverse Perspectives. 2 or 4 credits.

SOC-309 Families

The primary emphasis is on the relationship between the familial institution and the society in which it is being studied. Attention is given to trans-historical and cross-cultural data and how social change impacts the institution. Additional areas of investigation include definitions of the family, socialization, cohabitation, courtship, marriage, divorce, gender and sex roles, sexuality, socio-economic forces, family violence, alternative forms, and the future of the family. Also listed as GSS 309. Prerequisite: SOC 101, SOC 102, SOC 110, SOC 120, SOC 130, or SOC 150. 4 credits.

SOC-312 Social Interaction

A study of the interaction process as the central element in human social life, the primary occasion for communication, and the origin of both social structure and the individual human identity. Attention is given to symbolic communication, interaction, socialization, role theory, self-concept, deviance. Prerequisite: Junior standing or above (60 or more completed credits) and 8 credits of SOC - 4 of the 8 may be taken in ANTH. Biennially. 4 credits.

SOC-316 Gender & Sexuality

An introduction to the theories and methods used by sociologists to study gender and sexuality as social performances and historical constructions. Topics include masculinities, intersectionality, sexual culture, pornography, and gender inequality in the workplace. Also listed as GSS 316. Prerequisite: SOC 110, SOC 120, SOC 130, or SOC 150. Must be 18 years of age. Counts toward core requirement: Diverse Perspectives. Course offered biennially. 4 credits.

SOC-317 Pop Culture: Cultural Studies

Using theories drawn from the school of Cultural Studies as well as what has come to be known as "critical theory", this course takes an intensive analysis of the many artifacts of popular culture. A central goal of the course is to understand how the artifacts we analyze reflect, respond to, shape, and are shaped by the broader social/cultural forces around them. Also listed as ANTH 317. Prerequisite: ANTH 101, SOC 101, SOC 102, SOC 110, SOC 120, or SOC 130. Offered annually. 4 credits.

SOC-318 Racism & Ethnicity Hawaii-Travel

This course allows students to examine the racial and ethnic politics in Hawaii, a state that many believe is a melting pot, where all racial and ethnic groups live harmoniously. The course allows students to see firsthand the consequences of socially constructing race and ethnicity, the colonization of Hawaii, the plantation era in Hawaii, and the continued racial and ethnic politics that marginalize various groups in Hawaii. Students enrolled in this course will visit historical sites in Hawaii to better understand how the racial and ethnic structure in Hawaii was created. Students will have the opportunity to engage in discussions with scholars, who specialize in the area of racial and ethnic relations in Hawaii, as well as community activists, whose activism responds to the racial and ethnic hierarchy that exists in Hawaii. Students will also complete a research project, while in Hawaii, which will allow them to better understand the everyday lived racial and ethnic experiences of individuals in Hawaii. Overall, this course provides students with firsthand experiences of how the racial and ethnic hierarchy in Hawaii shapes the life chances of individuals living in Hawaii. Prerequisite: SOC 305. Counts toward core requirement: Diverse Perspectives. 2 credits.

SOC-319 Sociology of Medicine

The course analyzes the social and demographic variables affecting health, morbidity, and the mortality rates. It also examines the social roles in illness (e.g., doctor and patient): their definitions and consequences. Attention is given to the study of medical care institutions and their systems and structures. The relations between social policy and health is debated. Prerequisite: SOC 101, SOC 102, SOC 110, SOC 120, SOC 130, or SOC-150. Offered Biennially. 4 credits.

SOC-323 Junior Seminar

Students will prepare proposals for their own independent research projects. Attention will be given to a well-contextualized research question and clear set of objectives, literature review, methodology/ethics section, and feasibility review. Prerequisites: Junior standing or above (60 or more completed credits) and declared Sociology major. Pass/No Pass. Course offered annually in the spring. 2 credits.

SOC-334 Drugs and Society

This course is a comprehensive overview of the phenomenon of psychoactive drug taking in the United States. Using a sociological perspective, we will cover a variety of topics concerning the use of legal and illegal drugs, their history, their impact on the greater culture, and the multitude of ways that society adjusts to their presence. Within this framework we will discuss the narrative of addiction, the prevalence of certain forms of drug use, the connection between drug use and criminality, and the effects of drug taking upon self-concept. Prerequisite: SOC 101, SOC 102, SOC 120, SOC 130, PH 101, or ANTH 101. 4 credits.

SOC-342 Consumer Society

This course will explore consumption as a locus of social reproduction and source of meaning in people's lives. Consumer culture plays an increasingly important part in defining who we are, how we live, and how we participate in society. Our daily consumer choices shape our sense of identity and our relationship to the larger society. We will explore some of the far-reaching consequences of a consumer society by looking at education, leisure, bodies and sexuality, homes, community, and the environment. Prerequisite: SOC 101, SOC 102, ANTH 101, or ANTH 140. 4 credits.

SOC-347 Global Cap Neo-Colonial Inequalities

This course explores how global dimensions of capitalism intersect with local cultural identities and practices. Students will learn how transnational markets, global lending institutions, and transnational governments both shape and are shaped by questions of national identity, gender norms, racial categories, environmental policies and sexual practices. This course introduces students to perspectives on the meaning and scope of "globalization" from early industrialization to the current post-industrial economy. We will explore the typography of economic inequality on the global scale and examine specific examples of how it is maintained and resisted. The course includes post-colonial critiques that draw attention to how race, nationalism, gender and sexuality are central to the process of constructing, maintaining and resisting imperial domination. Prerequisite: SOC 101, SOC 102, SOC 110, SOC 120, SOC 130, or SOC-150. Counts toward core requirement: International Perspectives. 4 credits. Counts toward core requirement: International Perspectives. 4 credits.

SOC-355 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

SOC-360 Critical Race Theory

This course focuses on the Critical Race Theory (CRT), which is a multidisciplinary approach to the study of race and ethnic relations. One of the main goals of CRT is to question the dominant paradigm/ideology about race and reconstruct our perceptions of race through counternarratives told by marginalized and oppressed groups. Therefore, this course will expose students to counternarratives that marginalized and oppressed groups tell through class discussions, guest speakers, and course readings. Another important tenet of CRT is to examine the institution and structure of racism through a perspective that stresses intersectionality, and, therefore, the course will not only examine racial issues, but will also examine how these issues affect and are affected by other forms of oppressions, such as sexism, heterosexism, elitism, etc. Upon completing the course students should have a keen awareness of how oppressions (racism, sexism, elitism, heterosexism, etc.) intersect in societal structures. Prerequisite: SOC 101, SOC 102, SOC 110, SOC 120, SOC 130, or SOC-150. Counts toward core requirement: Civic Engagement and Diverse Perspectives. 4 credits.

SOC-366 Deviance

Focuses on the way society affects and is affected by what we call "deviant behavior," that is, behavior which is understood to be outside the confines of cultural convention. Topics in this class include the ways in which deviance is socially constructed through processes of identity and conformity, as well as the ways in which society establishes mechanisms for dealing with deviance, such as prisons and other institutions. A relevant line of sociological questioning towards the phenomenon of deviance asks why a behavior is conceived to be deviant, rather than whether or not a deviant act or career is inherently abnormal. Prerequisite: SOC 101, SOC 102, SOC 110, SOC 120, SOC 130, or SOC 150. Offered Biennially. 4 credits.

SOC-395 Independent Study

See department for details. Independent study contract required.

SOC-414 Sociological Theory

The origin and development of sociology are analyzed through the examination of major historical theorists and of contemporary schools of sociological thought. Prerequisite: Junior standing or above (60 or more completed credits) and 8 credits in SOC. Biennially. 4 credits.

SOC-450 Directed Research in Sociology

Directed Research in Sociology allows students of advanced standing to participate in a research project with an sociology faculty member in order to gain practical experience in the conduct of ongoing professional-level sociological research. Prerequisite: Junior standing or above (60 or more completed credits). Instructor's consent required. May be repeated for credit, up to 6 credits total. 1-4 credits.

SOC-454 Senior Seminar

This seminar is a senior-level course in which sociology majors will cooperate in seminar-based reading groups, and work in a purposeful, self-directed manner. Students who complete this seminar will work from a reading list compiled by the instructor. Course material will expand students' nascent theoretical and methodological knowledge and refine their understandings of four foundational topics in sociology: intersectionality, identity, social power, and social order. Students will take a comprehensive examination of material covered in the senior seminar. Prerequisites: senior standing and Sociology major. Course offered annually in the spring. 2 credits.

SOC-455 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

SOC-475 Internship

See department for details. Internship contract required.

SOC-490 Advanced Research Methods

The course advances students' understanding of research methods introduced in SOC 300, SOC 302 and SOC 323. Students will receive advanced training on how to collect and analyze data in the social sciences. The class includes an emphasis on how to write for an academic or public audience in preparation for the senior thesis. Prerequisite: SOC 323. Course offered annually in the fall. 4 credits.

SOC-495 Senior Thesis

Students write the final draft of the senior thesis and prepare for capstone presentations. Prerequisite: SOC 490. Course offered annually in the spring. 2 credits.

STUDY ABROAD

In accordance with the University's mission statement and goals, Pacific University study abroad programs provide students with a unique opportunity to develop skills and knowledge that will prepare them for the diverse community, nation, and world. Pacific University considers international study important and encourages all students to gain exposure to other cultures, languages, and ways of life.

Study abroad is required for all majors in the department of World Languages and Literatures and for a major in International Studies, but is open to all students who meet the selection criteria. Pacific University students who participate in a study abroad program can earn a maximum of 31 credits that will count toward their graduation. However, students should consult with their faculty advisor(s) to determine which courses taken abroad can and cannot be used toward their majors or to satisfy other specific University requirements.

Pacific offers access to a wide array of study abroad programs. European study in England, France, Germany, Ireland and Spain, is available. In Japan, Pacific is affiliated with Kansai Gaidai University in Hirakata, just outside of Osaka, Nagoya Gakuin University and Nanzan University, both in Nagoya, Saga University in northern Kyushu and J.F. Oberlin University in Tokyo. In Chile a new exchange program has been developed with the Universidad de Los Andes in Santiago. In Ecuador, Pacific has affiliations with the Universidad de Especialidades Espiritu Santo (UEES) in Guayaquil and the Universidad San Francisco de Quito (USFQ). Pacific also has a successful exchange partnership with Flinders University in South Australia. Pacific has an agreement with the Oregon University System (OUS) that gives Pacific students access to OUS study abroad programs in China, France and Germany.

Pacific University reserves the right to cancel programs or to make changes in affiliation at any time for reasons of safety, finances, or administrative concerns. Please consult the International Programs office for up-to-date information on all programs.

Eligibility

To be eligible for overseas study students must demonstrate proper personal and academic preparation for the program, be in good academic and financial standing, and have attended Pacific full-time for at least one semester immediately preceding the study abroad semester(s). In general, applicants are expected to have and maintain an overall GPA of 2.75. Students with a GPA below 2.5 at the time of application will have their applications rescinded. A personal essay, letters of recommendation and, under certain circumstances, a personal interview are also required of applicants.

For students fulfilling the requirements of a language major or minor, or the International Studies major, the completion of 202 or equivalent in the appropriate language and a 3.0 GPA average in language classes are required prior to beginning the program. For students pursuing other majors who wish to study in Japan, China (or Taiwan), or countries in which the official language is French, German or Spanish, successful completion of 102 or equivalent in the appropriate language is required. It is understood that in certain cases these minimum requirements will be superseded by program-specific requirements.

Cost

In general, participants on an approved study abroad program will pay costs equal to Pacific University tuition, room and board with the following exceptions: 1) if the tuition component of a study abroad program exceeds \$11,000, the participant will be responsible for paying the tuition balance (in addition to their regular Pacific tuition and fees). 2) Participants in some programs will pay accommodation costs directly to the overseas university or homestay family. In these cases participants are not billed accommodation by Pacific University 3) Participants in some programs will pay for their own meals (self-catering). In these cases participants are not billed board by Pacific University.

The University extends financial aid for approved study abroad programs taking into account both the total expenses associated with a particular program and the demonstrated need of the individual student. The University may also facilitate student access to study abroad programs not affiliated with Pacific, but no financial aid from Pacific will be awarded for such unaffiliated programs.

Application Deadline

Application to study abroad is a three-step process. The first step is a mandatory advising appointment in the Office of International Programs, which must take place during the fall semester preceding the academic year in which students intend to study abroad. The second step requires students to submit an online Intent to Study Abroad Form to the Office of International Programs, also during Fall Semester. The third step is the actual program application, which must be submitted to the Office of International Programs at the beginning of second semester (early February) preceding the academic year in which the study abroad program will be undertaken. Earlier deadlines apply for some programs in Germany and France. Check the International Programs website for up-to-date information. Application forms, current cost data, and informational brochures about all study abroad programs are available in the International Programs Office.

CHINESE

Pacific has two programs in China.

One program is based at [Beijing Language and Culture University](#) (BLCU), which is the only international university in China with its main task of teaching the Chinese language and culture to foreign students. BLCU is located in the Haidan district in northwest Beijing, an area that is home to most of the universities in Beijing including Peking University, the Central University for Nationalities, and Tsinghua University. BLCU offers an intensive Chinese language program. Participants typically live in student dorms on campus, in either single or double rooms. Many students live in the dorms with non-English speaking roommates, where Chinese becomes the common language of communication. Meals are available at several student cafeterias on campus, and at restaurants in the surrounding area.

The other China program is a direct exchange partnership with [Lingnan University](#), Hong Kong's only liberal arts university, which was founded in 1967. The overwhelming majority of classes at Lingnan are taught in English. Lingnan, with an enrollment of 2,600 students, is noted for its welcoming residential environment that would seem familiar to Pacific's students. Lingnan has a faculty student ratio of approximately 1:12, and prides itself on its Integrated Learning Program, with its focus on whole-person community-centered education, campus community and internationalization. The expansive Service Learning Program, which includes several credit-bearing options, is a key component of LU's offerings. Lingnan University may be of special interest to students of Business and the social sciences, but is not intended as a site primarily for language learning. Students will be housed in shared dormitory rooms, and will be responsible for their own meals.

ENGLISH

Australia

Students participating in Pacific's Australia program attend either [Flinders University](#) in the coastal city of Adelaide, the capital of South Australia, or the [University of Western Australia](#) in Perth.

With a population of 1.1 million, Adelaide is a major Australian city with a multicultural population, outstanding natural environment and thriving arts scene. Flinders University is a comprehensive medium-sized university with a total enrollment of 15,000. The campus is set amidst natural bushland with spectacular views of Adelaide and the surrounding coastline. Course offerings at Flinders are spread across 4 faculties, and 20 schools and departments, thus assuring Pacific students a wide range of academic options. Students will integrate fully into the campus, enrolling in 3-4 classes up to a maximum of 18 Flinders units. Housing is provided in Deirdre Jordan Village, a student apartment complex located only 5 minutes walk from the main campus.

The University of Western Australia (UWA) in Perth, with an enrollment of 24,000, is one of Australia's elite universities. The main campus, characterized by a blend of Romanesque and contemporary architecture, as well as lush landscaping, has a spectacular location on the banks of the Swan River, 5-10 minutes from Perth city center by bus and a similar distance from the city's ocean beaches. UWA offers a comprehensive range of courses, across the following 9 faculties: Architecture, Landscape and Visual Arts; Arts; Education; Engineering, Computing and Mathematics; Indigenous Studies; Law; Medicine, Dentistry and the Health Sciences; and Science. The campus has many centers of excellence, and will provide opportunities for students to access a vast range of courses. Most students will be housed in Trinity College, a vibrant residential community a short walk from the main campus.

Ireland

The University of Limerick is an internationally-focused university with an enrollment of over 11,000 students. It is especially known for its innovation in education and excellence in research. The University is situated on a riverside campus of over 131 hectares with the River Shannon as a unifying focal point. Students may choose from a full range of classes at the University in the following Faculties: College of Humanities, College of Business, College of Engineering and Science, and College of Education. Students will be fully integrated into the academic structure of the university and will be able to enroll in classes in all areas, subject to meeting class prerequisites and availability. Housing will be provided in residence halls close to campus. Limerick is a thriving modern city, the fourth largest in Ireland. It is the capital of Ireland's Mid West Region. It has a long history that can be traced back more than a thousand years. Within a day's excursion are the counties of Galway, Clare, Cork, Tipperary and Kerry. Shannon International Airport, only 16 miles from Limerick, provides daily access to a wide range of international destinations.

England

St. Mary's University, in the West London suburb of Strawberry Hill, has an enrollment of 2,500 students and offers classes in a variety of fields including media arts, exercise science, English literature, creative writing, sociology, business, drama and many more. St. Mary's picturesque 30-acre campus includes the 18th century estate and mansion of the British author Sir Horace Walpole. The College is a short walk from Twickenham High Street (a shopping district) and Richmond Park, while London's museums, concert halls, theatres, galleries and nightlife are only 30 minutes away by train. Participants will integrate fully into the life of the college as they take classes with British students. They will be housed in homestays located a short distance from the campus or in residence halls.

York St. John University, founded in 1841 and with a current enrollment of approximately 5,000, is located in a setting of unparalleled attractiveness, only a 5-minute walk from the bustling center, and in the shadow of York Minster Cathedral and the medieval city walls. Northern England's spiritual capital for 2000 years, York has played a key role in British history under the Romans, Saxons and Vikings. York is a compact riverside city offering stunning attractions ranging from York Minster, the largest Gothic cathedral in Northern Europe, to the tangle of picturesque medieval streets for which the city is famed. York is centrally located only two hours by train from London and Edinburgh respectively and, with nearby Leeds Airport well connected to the continent by discount airlines, also offers inexpensive access to Europe's major cities. Participants integrate fully into campus life as they take classes with British students, and live in residence halls.

FRENCH

The program in Paris, offered through International Studies Abroad (ISA) provides students with the option of studying French language and culture with other international students at the Sorbonne or the Catholic University of Paris. Superior-level students at the Catholic University of Paris can choose to take up to two integrated courses with French students. Housing is provided in residence halls or homestays.

The IE3 Global year-long program in Lyon offers students a chance to explore France's second largest city. The program begins with an intensive language program and then continues at the Centre International d'Etudes Françaises with the opportunity to take selected regular courses at four different universities in Lyon. Advanced students who pass a qualifying exam may also opt to take all of their courses in the French universities that participate in the program. There is a wide variety of housing options, ranging from homestays with families, to sharing apartments with French students, to staying in university dormitories. This program is for the full academic year only.

The University of Minnesota's program in Montpellier, France offers a comprehensive academic and cultural experience at the intermediate and advanced language levels at the Université Paul Valéry. Montpellier is located in southern France, ten miles away from the Mediterranean. Classes are held at the Université Paul Valéry and are taught by faculty from the University. Housing options vary and include homestays, dormitory or apartment living.

GERMAN

An exchange partnership between Pacific University and Otto-Friedrich Universität in Bamberg enables students to study in one of the most beautiful medieval towns in Germany. Situated on the banks of the Regnitz River in the region of Upper Franconia in Bavaria, Bamberg is a compact, stunning town of narrow medieval streets, churches, palaces and a striking 12th-century cathedral. In 1993, reflecting the rich and diverse architecture spawned by its long history as an imperial and religious center, Bamberg was designated a UNESCO World Heritage Site. Founded in 1647, Otto-Friedrich-Universität consists of five faculties: Information Systems and Applied Computer Science; Social Sciences, Economics and Business Administration; Humanities and Cultural Studies; Human Science and Education; and Catholic Theology. The most recent ranking by the CHE-Ranking Agency (Centre for Higher Education Development) placed the German Department at the Universität Bamberg in the highest tier of German universities for its individualized attention to students and its faculty. The university offers a wide range of excellent support services. Participants will be accommodated in student residences throughout Bamberg. While housing is guaranteed students will be responsible for paying their housing costs on-site in Bamberg.

The IE3 Global program in the state of Baden-Württemberg, the German sister state to Oregon, begins (for students on the year-long program) with a four-week program of intensive German. This is followed by study in regular German university courses at any one of nine different universities, each with its own distinctive academic emphasis. These are located in the cities of Stuttgart, Tübingen, Konstanz, Hohenheim, Ulm, Freiburg, Heidelberg, Mannheim, and Karlsruhe. In addition, students with special interests in education, music, and art may enroll at three more specialized institutions in Ludwigsburg and Stuttgart, although an audition and/or portfolio may be required for admission to the music and art schools.

Students of business have an opportunity to study at Aalen University, set amidst the spectacular forests of eastern Baden-Württemberg. Aalen University is characterized by academic excellence in both teaching and research. The School of Management and Business Sciences, where students will study, is known for its strong partnerships and its joint collaborations with industries in the region. Aalen University provides excellent support services for its international students,

including its Buddy Program, which will facilitate integration by linking up each incoming exchange student with a local student for the duration of the study program. Students will be housed in residence halls and will be responsible for their own meals.

Students may also study in Germany on the year-long program offered at the [Ludwig-Maximilians-Universität in Munich](#) through Lewis & Clark College. Outstanding features of the program include an intensive 4-week pre-semester, a wide range of courses offered by the Lewis & Clark center and the Ludwig-Maximilians-Universität, and the support of the resident director. Students also have the opportunity to participate in an internship during their spring holidays.

JAPANESE

Pacific University enjoys a sister school relationship with five Japanese universities that allow Pacific students to enroll in their study abroad programs in Japan for either a semester or a full year.

Nagoya University of Foreign Studies offers an excellent intensive Japanese program in a vibrant campus atmosphere. Nanzan University, also in Nagoya City, offers a rigorous and highly-regarded Japanese Studies program. Kansai Gaidai University is located in Hirakata near Osaka and half an hour train ride from Kyoto and Nara, the cultural and religious centers of traditional Japan, and offers a comprehensive Asian Studies program. Saga University, in Saga City, offers a year-long program, and is unique because of its wide-ranging course offerings in the sciences. J.F. Oberlin University, Pacific's newest partner, provides students with the opportunity to study in Tokyo, Japan's vibrant capital city. All programs offer Japanese language classes and courses, taught in English, on the history and culture of Japan. Depending on the school, students may live either in residence halls or in a home stay with a Japanese family.

SPANISH

Chile

Students may study for a semester or academic year at the University of Los Andes in Santiago. Founded in 1989, the Universidad de los Andes is a private university located on a spectacular campus in the foothills of the Andes in the northern part of Santiago. With an enrollment of 5,000 UANDES consists of the following schools: Law, Nursing and Education, Communication, Engineering, Business and Economics, Philosophy, Psychology, Dentistry and Medicine. This is a fully integrated program, requiring Pacific students to enroll in regular classes with Chilean students that are taught in Spanish. Therefore it should only be considered by students who have completed a 300-level Spanish-language sequence at a minimum. All exchange students are required to enroll in the Spanish for Foreigners class, and typically they take 3-4 additional classes. Most students will take classes in the social sciences and humanities, though all undergraduate classes for which students possess the necessary prerequisites are available. Pacific undergraduate students will be required to participate in the University of Los Andes Homestay Program. Homestay families have been pre-screened and offer a variety of options. Prices range from \$300-800 monthly, with variations explained mostly by differences in location and meal arrangements. Students will be able to select their homestay family about a month prior to departure, and will be responsible for paying the costs directly to the family. Thus outbound students will be charged Pacific tuition and fees, but they will pay room and board fees directly on-site.

Ecuador

In Fall 2008 a new exchange program was launched with the Universidad San Francisco de Quito (USFQ). USFQ is the only institution in Ecuador with a liberal arts-based curriculum and also has the country's largest international exchange program. At the USFQ main campus in the suburbs of Quito Pacific, Spanish-language students take fully integrated classes while living with local families. At the USFQ satellite campus on the Galapagos Islands Pacific students have a unique opportunity to spend a semester experiencing the islands and studying in one of three programs: Evolution, Ecology and Conservation in the Galapagos; People, Politics and the Environment; or Marine Ecology, subject to prerequisites and program availability. The semester-long programs each consist of five intensive 3-credit courses, all taught in three-week modules. Students on the Galapagos program live with local families in the town of San Cristobal.

Pacific has an exchange agreement with the Universidad Especialidades Espiritu Santo (UEES) in Guayaquil, Ecuador's largest city, principal port, and main commercial center. UEES offers semester-length programs in fall and spring for Pacific students. The program features homestays with carefully selected Ecuadorian families, a series of excursions in and out of Guayaquil, including trips to the Andean highlands, the Amazon basin and the Galapagos. The academic program includes service-learning with a local school or social service agency, intensive Spanish and course work in Latin American history, geography, economics, and literature.

Spain

Yearlong or semester programs are available through Academic Programs International (API) at the University of Salamanca, University of Seville and the University of Cadiz. The programs in Salamanca and Seville allow students to combine language courses with other humanities and social science classes taught in Spanish to international students. Students at an advanced level of Spanish language proficiency also have the option of taking integrated classes with Spanish students. The program in Cadiz is fully integrative and is suitable only for advanced students. All programs begin with a week-long orientation program in Madrid. Students are housed with Spanish host families Sor in residencias. A wide variety of local and in-country excursions are included in the program.

Winter Term and Short-Term Programs

Various exciting credit-earning overseas study programs are also available during Pacific's winter term and following spring semester. These programs are faculty-led and vary from year to year. Recent program destinations have included Belize, Costa Rica, Ecuador, France, India, Spain, Austria, England, Ghana, Japan,. For a schedule of upcoming Winter Term programs, visit the International Programs web site.

THEATRE

Ellen Margolis, Chair; Tal Sanders

At Pacific, opportunities in the performing arts are available to all students, regardless of major. Whether you are interested in a career in the professional theatre, in teaching, or in combining theatre or dance with other fields of study, our courses and productions provide a well-rounded foundation.

The most collaborative of the arts, theatre and dance partake of literature, history, music, movement, architecture, and design. Our student artists often begin as actors and dancers, then go on to master skills in choreography, directing, playwriting, and design.

Through rigorous work in academic, studio, and community settings, the Department of Theatre & Dance develops engaged artists and active learners. Faculty and students work together to learn, create, and communicate in a spirit of exploration and collaboration. Our distinctive Applied Theatre program builds on traditional performance training to serve individuals and communities, while our theatre season offers challenging, uplifting performances to the campus.

Through theatrical production, guest residencies, and academic study, the Pacific Department of Theatre & Dance strives to provide students with:

- Appreciation for the importance of story-telling, theatre, and dance in the contemporary world and throughout history
- Practical experience in theatre and dance production, including scenic, lighting, costume, sound and make-up design; acting; playwriting; stage management; dance; theatre technology; and directing
- Critical thinking, writing, speech, and organizational skills
- Practical skills, including collaboration, problem-solving, project management, event planning, communication, and time management, that are applicable to a wide range of careers
- Preparation through coursework, production experience, and internships for careers in theatre, dance, television, film, arts management, public relations, and teaching
- Preparation for graduate study in performance, directing, playwriting, design, and scholarly disciplines.

Theatre: Requirements for the Major

THEA 110	Acting I: Fundamentals	2 credits
THEA 112	Acting: Advanced Fundamentals	2 credits
THEA 120	Technical Theatre	4 credits

Four credits from the following, with no more than two in any one area (such as Performance, Lighting, etc.) counting toward completion of this requirement:

		4 credits
THEA 150	Theatre Company: Performance	
THEA 151	Theatre Company: Gen Technical Theatre	
THEA 152	Theatre Company: Costume & Makeup	
THEA 153	Theatre Company: Lighting	
THEA 154	Theatre Company: Org & Mgmt	
THEA 156	Theatre Company: Run Crew/Board	
THEA 450	Theatre Company: Advanced Performance	
THEA 451	Theatre Company: Advanced Technical Prod	
THEA 452	Theatre Company: Adv Costume & Makeup	
THEA 453	Theatre Company: Advanced Lighting	
THEA 454	Theatre Company: Advanced Org & Mgmt	
THEA 456	Theatre Company: Advanced Run Crew/Board	
THEA 180	Script Analysis	4 credits
APTH 215	Applied Theatre Workshop	4 credits
THEA210	Acting II: Scene Study	
OR		
THEA 220	Introduction to Theatrical Design	4 credits
THEA 330	Fundamentals of Directing	
OR		
THEA 333/MEDA 333	Directing for Stage and Screen	4 credits
THEA 350	Theatre History and Dramatic Literature I	4 credits
THEA 360	Theatre History and Dramatic Literature II	4 credits
THEA 495	Senior Thesis	4 credits
Electives in Applied Theatre, Theatre, or Dance as approved by advisor		4 credits

TOTAL: 44 credits

Theatre: Requirements for the Minor

THEA 110	Acting I	2 credits
THEA 120	Technical Theatre	4 credits

Two credits from the following, with no more than two in any one area (such as Performance, Lighting, etc) counting toward completion of this requirement:

THEA 150	Theatre Company: Performance
THEA 151	Theatre Company: Gen Technical Theatre
THEA 152	Theatre Company: Costume & Makeup
THEA 153	Theatre Company: Lighting
THEA 154	Theatre Company: Org & Mgmt
THEA 156	Theatre Company: Run Crew/Board
THEA 450	Theatre Company: Advanced Performance
THEA 451	Theatre Company: Advanced Technical Prod
THEA 452	Theatre Company: Adv Costume & Makeup
THEA 453	Theatre Company: Advanced Lighting

THEA 454	Theatre Company: Advanced Org & Mgmt	
THEA 456	Theatre Company: Advanced Run Crew/Board	
THEA 180	Script Analysis	4 credits
One of the following:		4 credits
THEA 210	Acting II	
THEA 220	Introduction to Theatrical Design	
One of the following:		4 credits
THEA 350	Theatre History/Literature I	
THEA 360	Theatre History/Literature II	
Additional upper-division Theatre or Applied Theatre electives:		4 credits
<hr/>		
TOTAL: 24 credits		

The **Applied Theatre** program extends the skills, tools, and values of the theatre arts into civic engagement, community-building, activism, and wellness. An educated Applied Theatre practitioner has a strong foundation in the liberal arts and also recognizes and employs the power of theatre to further the public good.

A **major** in Applied Theatre serves students committed to theatre who wish to acquire marketable skills for jobs in education, social services, and applied arts companies. Degree requirements include a foundation in traditional theatre practice, history, and literature, along with focused education and experience in Applied Theatre work.

Please note that a major or minor in Applied Theatre cannot be combined with a major or minor in Theatre.

Applied Theatre: Requirements for the Major

THEA110	Acting I: Fundamentals	2 credits
THEA120	Technical Theatre	4 credits
APTH 215	Applied Theatre Workshop	4 credits
THEA 220	Introduction to Theatrical Design	4 credits
APTH 301	Survey of Applied Theatre	4 credits
THEA 330	Fundamentals of Directing	
OR		
THEA 333/MEDA 333	Directing for Stage and Screen	4 credits
THEA 350	Theatre History and Dramatic Literature I	4 credits
THEA 360	Theatre History and Dramatic Literature II	4 credits
THEA 475	Internship (Supervised placement at an Applied Theatre organization, theatre, school, or service organization)	2 credits
THEA495	Capstone (Academic inquiry into an issue, theorist, or practice within the field)	4 credits
Electives		6 credits
Applied Theatre or related courses as approved by advisor. Options may include courses in Peace and Social Justice, Public Health, Disability Studies, Politics and Government, Business Administration, Sociology.		

TOTAL: 42 credits

Applied Theatre: Requirements for the Minor

THEA 110	Acting I: Fundamentals	2 credits
APTH 215	Applied Theatre Workshop	4 credits
APTH 301	Survey of Applied Theatre	4 credits
THEA 360	Theatre History and Dramatic Literature II	4 credits
Electives		8 credits
Theatre, Applied Theatre or related courses as approved by advisor (options may include courses in Peace and Social Justice, Public Health, Disability Studies, Politics and Government, Business Administration, Sociology 4 of the credits must be in THEA or APTH		

TOTAL: 22 credits

COURSES

APTH-212 Theatre for Gender Equity

This workshop course will devise new work or engage with existing texts to present theatrical performance on a given theme and in accord with the mission of the Center for Gender Equity. Also listed as GSS 212. May be repeated once for credit. 2 credits.

APTH-215 Applied Theatre Workshop

This course will provide an active, experiential introduction to key forms of Applied Theatre including Playback, Reminiscence Theatre, Augusto Boal's Forum Theatre, and approaches to devising theatre for and with communities. After all of these forms have been introduced and explored, the class will break into small production companies, each of which will pursue their chosen way of working for the second half of the semester, offering their work to a local group or audience. Counts toward core requirement: Civic Engagement. 4 credits.

APTH-255 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

APTH-272 Performance As Witness

This workshop course begins with research into a historically significant site in the Northwest (such as the Tule Lake or Puyallup Detention Camps), including a visit, interviews, and immersion in the site's social history. The rest of the course will be dedicated to development of individual responses

and group compositions that attempt to contextualize, express, and honor the specific experiences and memories reflected in the space. Actors, musicians, dancers, writers, and designers are all welcome, regardless of the level of training. An introductory course in any art form is useful preparation, but is not required. Note that other historically significant sites may be substituted; please contact the Department of Theatre & Dance prior to registration to confirm specific destination. 2 credits.

APTH-301 Survey of Applied Theatre

This course introduces students to the breadth and effectiveness of Applied Theatre throughout recent history; engages with complex issues of representation, privacy, authorship, and authority as these issues pertain to performance and communities; and challenges students to conceive their own models for employing theatre as an agent of change. Prerequisite: Sophomore standing or above (30 or more completed credits). 4 credits.

APTH-315 Applied Theatre Workshop II

This course will provide an active, experiential introduction to key forms of Applied Theatre including Playback, Reminiscence Theatre, Augusto Boal's Forum Theatre, and approaches to devising theatre for and with communities. After all of these forms have been introduced and explored, the class will break into small production companies, each of which will pursue their chosen way of working for the second half of the semester, offering their work to a local group or audience. Prerequisite: APTH 215. Counts toward core requirement: Civic Engagement. 4 credits.

APTH-320 Theatre in Mental Health: UK

This winter-term travel course will introduce students to the Converge program, an arts and health project based at York St. John University in England. Converge makes university courses in the arts accessible to people who use mental health services. Students will learn about the UK mental health service provision, arts as a pathway to higher education, the healing potential of performance practice, and evidence for the effectiveness of arts applications in mental health, and will work on theatre skills with community members. Students will gain both experience with an established applied theatre model and understanding of the challenges and processes of applied theatre. Prerequisite: THEA 110 or APTH 215. 2 credits.

APTH-372 Performance As Witness II

This two-week Winter intensive begins with 1-2 days of research into a historically significant site in the Northwest (such as the Tule Lake or Puyallup Detention Camps), including a visit, interviews, and immersion in the site's social history. The rest of the course will be dedicated to development of individual responses and group compositions that attempt to contextualize, express, and honor the specific traumas and memories reflected in the space. Actors, musicians, dancers, writers, and designers are all welcome, regardless of the level of training. An introductory course in any art form is useful preparation, but is not required. Note that other historically significant sites may be substituted; please contact the Department of Theatre & Dance prior to registration to confirm specific destination. Prerequisite: APTH 272. 2 credits.

APTH-385 Eco-Theatre: Community & Performance

This course combines theory, practice, and knowledge from the disciplines of Theatre and Environmental Studies within a project-based, community-outreach model. A live performance project will be devised with goals of building community; raising awareness of sustainability issues, crises, and solutions; and offering possibilities for a cultural shift. Also listed as ENV 385. Prerequisite: THEA 110, THEA 120, ENV 142, ENV 160, ENV 200, ENV 224, PHIL 321, or ECON 333. Counts toward core requirement: Civic Engagement. 4 credits.

THEA-101 Theatre Appreciation

This course provides an understanding of the many elements of theatrical production, exposes students to live performance in a variety of styles and venues, develops students' appreciation of performance, and offers vocabulary and tools for articulating responses to the performing arts. 2 credits.

THEA-110 Acting I: Fundamentals

Introduction to movement, voice, and acting for the stage, with techniques drawn from Stanislavsky, Meisner, Viewpoints, Linklater, and other schools. The course develops an understanding of the actor's process for all students, and provides a foundation for students planning to major or minor in theatre or to perform in department productions. 2 credits.

THEA-112 Acting: Advanced Fundamentals

Designed for students who wish to build on the foundation provided in Theatre 110. In this Advanced Fundamentals class, students will gain practice with audition and rehearsal techniques, dramatic texts, and approaches to scene study. This course is recommended for aspiring performers and prospective Theatre majors. Prerequisite: THEA 110. 2 credits.

THEA-120 Technical Theatre

An introduction to technical theatre, including shop and production safety, position descriptions and work flow, script analysis, collaboration, construction, scenic art, electricity and lighting, crafts, prop design and construction, sound design and audio production, and sewing. The course is taught through lecture and discussion, and also entails a minimum of 40 lab hours which will include assignments on construction and running crews. 4 credits.

THEA-150 Theatre Company: Performance

Active participation in a dramatic production as an actor or performer. Must audition and be cast in a play to enroll. Instructor's consent required. May be repeated for credit. Offered each semester. 0-2 credits.

THEA-151 Theatre Company: Gen Technical Theatre

THEA 151 is a category within the one-hour practicum in theatre production. Most freshmen or first-time students should sign up for THEA 151 for active participation as a production assistant or technician before moving on to specialized areas including Costume, Lighting, Production Management, and Run Crew (THEA 152-156). Offered each semester. Instructor consent required. 1-2 credits.

THEA-152 Theatre Company: Costume & Makeup

Supervised practicum in costume construction, wardrobe crew, and/or hair and makeup crew. Instructor's consent required. Offered each semester. 1-2 credits.

THEA-153 Theatre Company: Lighting

Supervised practicum in stage lighting. Instructor's consent required. Offered each semester. 1-2 credits.

THEA-154 Theatre Company: Org & Mgmt

Supervised practicum in theatre management. Instructor's consent required. Offered each semester. 1 credit.

THEA-156 Theatre Company: Run Crew/Board

Supervised practicum in board operation and backstage/run crew. Instructor's consent required. Offered each semester. 1 credit.

THEA-180 Script Analysis

This course focuses on reading and analysis of theatrical texts from various traditions, periods, and styles. With collaboration and the creation of live theatrical events as guiding principles, scripts will be examined from literary, directorial, design, and acting perspectives. This class is typically offered every other year. 4 credits.

THEA-195 Independent Study

See department for details. Independent Study contract required.

THEA-210 Acting II: Scene Study

Intensive scene work, script analysis, and development of a methodical approach to acting. Intermediate work in voice and movement; introduction to dialects. Prerequisite: THEA-110. May be repeated once for credit. 4 credits.

THEA-212 Professional Preparation for Actors

Performance students will learn and practice skills for auditioning and marketing their work through the selection and preparation of monologues suitable for various audition needs; practice in cold-reading, slating, and other skills; creating and revising a professional resume; and creating a routine for documenting their auditioning experiences. Prereq: THEA 110. 2 credits.

THEA-220 Introduction to Theatrical Design

Introduction to scenic, costume, and light design for the stage with emphasis on script analysis, drawing, rendering, computer design and model building. Prerequisite: THEA-120. 4 credits.

THEA-225 Theatrical Makeup & Mask Design

Students will be introduced to current practices in stage makeup design and application, and to a range of techniques and approaches to mask-making for the performing arts. Students are expected to purchase their own makeup supplies. THEA 110, THEA 120, or a background in performance recommended. 2 credits.

THEA-255 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

THEA-275 Internship

See department for details. Internship contract required. 1-4 credits.

THEA-310 Acting III: Period Acting

Introduction to period acting with emphasis on Shakespeare, classical Greek drama, and verse. Prerequisite: THEA-210. 4 credits.

THEA-312 Phonetics and Dialects

An introduction to the use of the International Phonetic Alphabet as applicable to stage dialects. Students will learn to read and transcribe IPA, and then will use this system as a basis for mastery of four to six dialects of spoken English they are likely to encounter as actors. Prerequisite: THEA 110. 2 credits.

THEA-330 Fundamentals of Directing

Laboratory course that addresses both artistic skills (concept, communication, research, rehearsal techniques, composition, scoring) and project management (casting, scheduling, communication flow, licensing, and other practical tasks). Projects may include concept presentations, mock production meetings, casting breakdowns, composition practice, production analyses and reviews, direction of scripted scenes, and facilitation of devised work. Prerequisite: THEA-110. 4 credits.

THEA-333 Directing for Stage and Screen

A director shares his or her vision with collaborators and sees it through to a fully realized expression in time and space. In this course, students who aspire to work in theatre, film, and other media will learn skills and gain practice in responding to texts; developing robust concepts; communicating with actors, designers, and other collaborators; making eloquent staging choices to enhance storytelling; and managing multi-faceted projects. Throughout the semester, our touchstone will be the relationship between artistic vision and practical decision-making. We will also look at and learn from the work of seminal theorists and practitioners. Also listed as MEDA 333. Prerequisite: THEA 110 and THEA 120; or MEDA 250. 4 credits.

THEA-336 Lighting for Dancers & Directors

Students will gain practical knowledge and experience with the lighting craft to inform both their creative work and their ability to collaborate and communicate their lighting needs when working with designers. Students will be exposed to practical application and creation of expressive lighting techniques. Students will explore color theory and electrical safety. This class is recommended for, but not limited to, dance students. Also listed as DANC 336. Prerequisite: THEA 120 or DANC 200. DANC 301 and DANC 401 recommended. 2 credits.

THEA-350 Theatre History/Literature I

Study of European and Asian performance traditions, production conditions, and dramatic literature from 500 BC to the 19th century, taught through lecture, research, performance critiques, creative projects, and discussion. Offered in odd-numbered years. Prerequisite: Sophomore standing or above (30 or more completed credits). 4 credits.

THEA-351 Traditional Theater of East Asia

This course introduces students to traditional theater of China, Korea, and Japan. Students learn historical backgrounds of the six main theatrical art forms, examine literary and aesthetic theories, and understand the establishment and the distinctiveness of cultural identities within East Asia. In addition to learning about traditional theatrical performances, students will read innovative, contemporary plays inspired by traditional theater of East Asia. The goal is to understand the essential aspects of traditional theater that could be accessible and appreciated beyond language and culture. Prerequisite: Sophomore standing or above (30 or more completed credits). 4 credits.

THEA-355 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

THEA-360 Theatre History/Literature II

Development of theater from 1875 to the present with special emphasis on the influential practitioners and styles of the period. Prerequisite: Sophomore standing or above (30 or more completed credits). 4 credits.

THEA-363 Gender, Sexuality, & Performance

This course examines gender in and as performance, bringing feminist and queer studies lenses and contemporary theories of gender construction to a variety of performances and texts. Topics will include representations of gender and sexuality within the canon; construction of gender through

performances on stage and in everyday life; and the challenging of roles and assumptions through dynamic choices in playwriting, directing, acting, and design. Also listed as GSS 363. Prerequisite: Sophomore standing or above (30 or more completed credits). Counts toward core requirement: Diverse Perspectives. 4 credits.

THEA-370 Theatre & Culture Tour London/Stratford

An intensive 8- to 10-day tour in England, during which students attend and critique a variety of theatre productions, tour major museums and cultural landmarks, and attend lectures and workshops led by British theatre professionals. Course includes preparation meeting in December and review meeting after the trip's conclusion. Extra cost for airfare, events, and lodging (Approximately \$2,750. See department for current rate). Offered in Winter. 2 credits.

THEA-380 Playwriting Seminar

Seminar in writing for the stage, including a study of dramatic structure, action, dialogue, and characterization. Practical matters such as the economics of the contemporary theatre, script submission, synopses and queries, and collaborative work with directors and actors will also be addressed. Weekly writing assignments will focus on specific themes. Course will culminate in a major writing project. Prerequisite: THEA-110. 4 credits.

THEA-395 Independent Study

See department for details. Independent Study contract required.

THEA-412 Professional Preparation for Actors II

Intermediate and advanced performance students will practice skills for auditioning and marketing their work through the selection and preparation of monologues suitable for various audition needs; practice in cold-reading, slating, and other skills; coaching and mentoring more junior students in audition skills; maintaining professional marketing materials; and documenting their auditioning experiences. Prereq: THEA 212. 2 credits.

THEA-450 Theatre Company: Advanced Performance

Active participation in a dramatic production as an actor or performer. Must audition and be cast in a play to enroll. Prerequisite: Junior standing or above (60 or more completed credits). Instructor's consent required. Offered each semester. May be repeated for credit. 0-2 credits.

THEA-451 Theatre Company: Advanced Technical Prod

Active participation in a dramatic production as construction or technical crew. Prerequisite: Junior standing or above (60 or more completed credits). Instructor's consent required. Offered each semester. 1-2 credits.

THEA-452 Theatre Company: Adv Costume & Makeup

Active participation in a dramatic production as a design assistant, dresser, or wardrobe run crew. Prerequisite: Junior standing or above (60 or more completed credits). Instructor's consent required. Offered each semester. 1-2 credits.

THEA-453 Theatre Company: Advanced Lighting

Active participation in a dramatic production as a design assistant or hang and focus crew. Prerequisite: Junior standing or above (60 or more completed credits). Instructor's consent required. Offered each semester. 1-2 credits.

THEA-454 Theatre Company: Advanced Org & Mgmt

Active participation in a dramatic production as a stage manager or production assistant. Prerequisite: Junior standing or above (60 or more completed credits). Instructor's consent required. Offered each semester. 1-2 credits.

THEA-455 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

THEA-456 Theatre Company: Advanced Run Crew/Board

Active participation in a dramatic production as run crew or board operator. Prerequisite: Junior standing or above (60 or more completed credits). Instructor's consent required. Offered each semester. 1 credit.

THEA-475 Internship

See department for details. Internship contract required.

THEA-480 Advanced Playwriting Workshop

Having completed the 300-level playwriting seminar, students in this class will work on a large project throughout the semester, culminating in a public reading or submission to theatres. THEA 480 students will also serve as chief respondents to THEA 380 students' drafts. Prerequisite: THEA 380. 4 credits.

THEA-495 Senior Thesis

Students will develop substantial projects in performance, design, directing, research, dramaturgy, choreography, or playwriting, from inception and proposal through completion. Must be arranged with faculty advisor. Instructor's consent required. May be repeated for credit. 1-4 credits.

WORLD LANGUAGES & LITERATURES

Yasutaka Maruki, Chair; Erica Andree, Nancy Christoph (sabbatical in the Fall), Mark Ferguson, Lorely French, Sandra Garcia, Jeanne-Sarah de Larquier, Jann Purdy, Candy Renfro, Victor Rodriguez, Lily Tsang, Mariana Valenzuela, Marcus Welsh, Nicole Thorburn, Frederick Stamps

The Department of World Languages and Literatures seeks to provide the general student with awareness of and sensitivity toward the cultural and linguistic diversity of an increasingly interconnected world. For students specializing in language study, the Modern Languages curriculum teaches proficiency in speaking, writing, reading, and comprehending a modern language. Majors spend a semester or a year in study abroad. The curriculum is designed to ensure mastery of the languages studied through intensive conversational training.

The faculty of the department is diverse and international, with fourteen faculty members representing various countries and cultures. Five languages are represented in the curriculum: Chinese, French, German, Japanese and Spanish. The faculty carry out research or creative writing projects, publish regularly, and participate actively in professional organizations.

The Modern Languages major may concentrate in French, German, Japanese or Spanish as a primary language, and French, German, Japanese, Spanish or Chinese as a secondary language. Students may also select a major in Japanese or Spanish or a major in French or German Studies. Majors are required to complete 12 semester hours in an accredited program outside the United States, offered in the language in which the student is specializing, or may combine 8-11 credits of study abroad with 1-4 credits of upper-division work at Pacific to satisfy the study abroad requirement.) Pacific students may apply their financial aid awards to foreign study undertaken through the Study Abroad program of the department. (For more information on studying abroad, see International Programs.)

All courses in the department are open to non-majors who have the appropriate prerequisites. Students are invited to pursue their area of interest within the framework of departmental offerings.

For information about language courses, the major, or the Study Abroad program, contact the Department of World Languages & Literatures Chair.

Program Learning Outcomes

The department seeks to graduate majors who:

- embody the essence of liberal arts values
- have a high level of proficiency in all four skill areas of the language of concentration: listening, speaking, reading and writing
- have participated in at least a semester of study abroad and are sensitive to cultural differences
- have some knowledge of the major literary, intellectual and historical trends of the cultures of concentration
- are acquainted with the different modes of research within their field
- have conducted original research and written a senior thesis in the language of specialization or have completed a capstone project
- are prepared to pursue graduate/professional studies or immediately enter the job market able to seek employment in a broad spectrum of career possibilities

World Languages & Literatures Majors

Majors in World Languages & Literatures must complete all courses with a grade of C- or better.

Students enter the sequence at a level appropriate to their previous preparation and may be exempt from up to 16 credits of the major requirement of lower-division credit unless otherwise noted.

French: Requirements for the Major

FREN 101-102	Intro to French Language and Culture	8 credits
FREN 201-202	Intermediate French	8 credits
FREN 494/495	Thesis	4 credits
One French course numbered 400 or above taken at Pacific		4 credits
Upper-division credits earned abroad in a French-speaking country*		12 credits
OR		
Upper-division credits earned abroad in a French-speaking country		8-11 credits
AND		
One French 300-level course or above for a total of 12 credits**		1-4 credits
Upper division FREN credits taken at Pacific		12 credits
OR		
Eight upper-division FREN credits taken at Pacific***		8 credits
AND		
Four credits from the following:		4 credits
ARTHI 270	Western Art I: Paleolithic through Gothic	
ARTHI 271	Western Art II: Renaissance through Present	
DANC 261	Dance History and Appreciation I	
DANC 305	Advanced Ballet I	
DANC 306	Advanced Ballet II	
ENGL 343	Studies in Criticism and Theory	
IS 201	Intercultural Communication	
HIST 206	France from Caesar to Napoleon	
HIST 235	Europe Since World War II	
HIST 301	The Medieval World: 400-1500	
HIST 335	The Era of First World War	
HIST 338	Era of the French Revolution	
HIST 401	The World of Charlemagne	
MEDA 401	Narr Film Theory and Criticism	
PHIL 420	Seminar in Philosophy ****	
WORL 365	Teaching Language and Culture in Elementary Schools	

TOTAL: 48 credits

*Short-term travel abroad courses may not count towards upper-division hours earned abroad.

** Alternatives to the traditional semester study-abroad requirements must be through an accredited university and may be proposed to the French Program Coordinator for consideration. The program must then be pre-approved by the Chair of World Languages and Literatures in consultation with the French Program Coordinator and the Director of International Programs.

*** Other classes not listed here may be proposed to the French Program Coordinator for consideration.

**** Will depend on topic.

German Studies: Requirements for the Major

GER 101-102	Intro to German Language and Culture	8 credits
GER 201-202	Intermediate German	8 credits
GER 494/495	Thesis (normally written in German, 2 credits per semester)	4 credits
Upper-division credits earned abroad in a German-speaking country		12 credits *
OR		
Upper-division credits earned abroad in a German-speaking country		8-11 credits *
AND		
One German course numbered 300 or above to total 12 credits		1-4 credits **
German courses numbered 300 or above (including at least 12 credits taken at Pacific, 4 credits of which must be numbered 400)		16 credits
OR		
German courses numbered 300 or above at Pacific (of which 4 credits must be numbered 400)		
AND		
One course from pre-approved related courses in art history, business, economics, history, humanities, literature, international studies, media arts, music, philosophy, business administration, political science		
One of the following:		2 credits
A conversation or short-term study abroad class in a German-speaking country from any combination of 200 or 300-level or WORL 325 Mentoring and Tutoring in the Languages		

TOTAL: 50 credits

*Short-term travel abroad courses may not count towards upper-division hours earned abroad.

** Alternatives to the traditional semester study-abroad requirements must be through an accredited university and may be proposed to the German Program Coordinator for consideration. The program must then be pre-approved by the Chair of World Languages and Literatures in consultation with the German Program Coordinator and the Director of International Programs.

Please note that WORL 325 may not be available in all languages or in all semesters. Students should plan accordingly.

Students entering the sequence at the 300-level will complete a minimum of 16 credits selected from upper-division offerings.

Japanese: Requirements for the Major

JAPN 101-102	Intro to Japanese Language and Culture	8 credits
JAPN 200-level	Any 200-level Japanese courses	8 credits
JAPN 490 / 491	Senior Capstone (2 credits/semester)	4 credits
Upper-division credits earned abroad in a Japanese-speaking country		12 credits
OR		
Upper-division credits earned abroad in a Japanese-speaking country		8-11 credits
AND		
Upper-division JAPN credits earned at Pacific for a total of 12 credits		1-4 credits
Upper-division JAPN credits earned at Pacific, at least two courses at 400-level		16 credits*
One of the following:		2-4 credits
ARTHI 276	Art and Architecture of Asia	
HIST 319	Rise/Fall of Japanese Empire	
HIST 313	World War II in History and Memory	
HUM 213	Intro to Japanese Literature	
HUM 215	Modernity in Japanese Narrative	
HUM/THEA 351	Traditional Theater of East Asia	
PHIL 305	Asian Philosophy	
Travel courses to Japan as approved by department		

TOTAL: 46-52 credits

* If Study Abroad is for a year, only 12 credits are required, otherwise 16 are required.

Modern Languages: Requirements for the Major

Primary Language, Lower Division (French, German, Japanese, Spanish)		16 credits
Two courses number 300 or above taken at Pacific		8 credits
Upper-division credits earned abroad in primary language country		12 credits
OR		
Upper-division credits earned abroad in primary language-speaking country		8-11 credits
AND		
One primary-language class at 300-level or above for total of 12 credits**		1-4 credits
Secondary language(s)		16 credits
WORL 401-402	Thesis in Modern Languages I/II	4 credits
One of the following:		
WORL 325	Mentoring and Tutoring in the Languages	2 credits
WORL 365	Teaching Language and Culture in the Elementary School	4 credits

TOTAL: 58-60 credits

Note: The secondary language requirement may be fulfilled by two full years study of one language or one full year of study of two different languages.

Study abroad must be in a country where the primary language is spoken. The thesis will be written in the language stipulated by the primary advisor. Please note that WORL 325 may not be available in all languages or in all semesters; students should plan accordingly.

International students, who have taken ESL classes at the university level and who want to major in Modern Languages, may be exempted from the 16 credits of a secondary foreign language.

**Alternatives to the traditional semester study-abroad requirements must be through an accredited university and may be proposed to the Modern Languages Program Coordinator for consideration. The program must then be pre-approved by the Chair of World Languages and Literatures in consultation with the Modern Languages Program Coordinator and the Director of International Programs.

Spanish: Requirements for the Major

SPAN 102	Intro to Spanish Language and Culture	4 credits
SPAN 201-202	Intermediate Spanish	8 credits*
SPAN 490/491	Capstone in Spanish I/II	4 credits
Two 4-credit courses 300-level or above in Spanish (if study abroad is year-long, only 4 credits)		8 credits
Upper-division credits earned abroad in a Spanish-speaking country		12 credits
OR		
Upper-division credits earned abroad in Spanish-speaking country		8-11 credits
AND		
One Spanish 300-level course or above for a total of 12 credits**		1-4 credits
Two 4-credit Spanish 400-level courses taken at Pacific		8 credits

TOTAL: 44 credits

NOTE: SPAN/EDUC 465, 466, 367, 467 do not count toward the major

*SPAN 211 may substitute for SPAN 202

**Alternatives to the traditional semester study-abroad requirements must be through an accredited university and may be proposed to the Spanish Program Coordinator for consideration. The program must then be pre-approved by the Chair of World Languages and Literatures in consultation with the Spanish Languages Program Coordinator and the Director of International Programs.

WORLD LANGUAGES & LITERATURES MINORS

Students interested in a minor are urged to consult with the professor of the language they wish to pursue. Those who enter with previous foreign language training may be exempt from a maximum of 8 credits of the minor requirement. Students entering the sequence at the 300-level in Chinese, French, German or Japanese complete a minimum of 16 credits selected from upper-division offerings.

A student minoring in any language taught at Pacific must complete all courses with a grade of C- or better.

Chinese: Requirements for the Minor

CHIN 101-102	Introduction to Chinese Language and Culture	8 credits
CHIN 201-202	Intermediate Chinese	8 credits
Upper-division work in Chinese		8 credits

TOTAL: 24 credits

French: Requirements for the Minor

FREN 101-102	Intro to French Language and Culture	8 credits
FREN 201-202	Intermediate French	8 credits
Two French courses numbered at 300 or above taken at Pacific		8 credits

TOTAL: 24 credits

Students completing a French minor must complete a minimum of 12 credits of French offerings at Pacific regardless of their initial placement level.

German: Requirements for the Minor

GER 101-102	Introduction to German Language and Culture	8 credits
GER 201-202	Intermediate German	8 credits
Upper-division work in German at Pacific or in a German-speaking country		8 credits
(4 credits may come from 2-credit conversation or short-term study abroad classes in a German-speaking country at 300-level or above)		

TOTAL: 24 credits

Japanese: Requirements for the Minor

JAPN 101-102	Introduction to Japanese Language and Culture	8 credits
JAPN 201-202	Intermediate Japanese	8 credits
Upper-division work in Japanese		8 credits

TOTAL: 24 credits

Spanish: Requirements for the Minor

SPAN 102	Introduction to Spanish Language and Culture	4 credits
SPAN 201-202	Intermediate Spanish	8 credits*
Two 4-credit upper-division courses in Spanish		8 credits
One experiential course (any of the following four options)		4-5 credits
Study Abroad in a Spanish speaking country		

SPAN 325
SPAN 367 or other Spanish travel course with service component
Any other 300-level Spanish course + 1 credit PSJ 105 /305 with Spanish focus

TOTAL: 24-25 Credits

*SPAN 211 may substitute for SPAN 202
Students who wish to minor in Spanish and enter the sequence at the 300-level complete a minimum of 16 credits from upper-division offerings.

COURSES

CHIN-101 Intro to Chinese Language & Culture

The beginning course is intended to give training in the basic listening and reading of Chinese (Mandarin). Introduction of Chinese characters and presentation of the cultural behaviors that influence language usage. 4 credits.

CHIN-102 Intro to Chinese Language & Culture

A continuation of CHIN 101 intended to give training in the basic listening and reading of Chinese (Mandarin). Introduction of Chinese characters and presentation of the cultural behaviors that influence language usage. Prerequisite: CHIN 101 or placement. 4 credits.

CHIN-195 Independent Study

See department for details. Independent study contract required.

CHIN-201 Intermediate Chinese

The intermediate course is intended for expansion of conversational skills, reading practice, and grammatical constructions. Development of writing skills. Emphasis on effective spoken communication and reading practice. Prerequisite: CHIN 102 or placement. 4 credits.

CHIN-202 Intermediate Chinese

A continuation of CHIN 201 - intended for expansion of conversational skills, reading practice, and grammatical constructions. Development of writing skills. Emphasis on effective spoken communication and reading practice. Prerequisite: CHIN 201 or placement. 4 credits.

CHIN-255 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

CHIN-275 Internship

See department for details. Internship contract required. 1-4 credits.

CHIN-295 Independent Study

See department for details. Independent study contract required.

CHIN-301 Communicating in Chinese

Development of communicative competence in Chinese with emphasis on conversational skill. Application of cultural awareness in various communication situations. Taught in Chinese. Prerequisite: CHIN 202 or placement. Offered intermittently. 4 credits.

CHIN-305 Chinese Reading and Writing

Study of Chinese writing and the enhancement of reading skills. Acquisition of more vocabulary to facilitate Chinese reading and writing. Cultural and social influences on expressions and styles will be discussed. Taught in Chinese. Offered intermittently. Prerequisite: CHIN 202 or placement. 4 credits.

CHIN-395 Independent Study

See department for details. Independent study contract required.

CHIN-401 Selected Chinese Short Stories

This course will focus on selected topics in contemporary Chinese short stories, which include such themes as nature and humans, life and death, love and loyalty, family and friends, and self and public. Students will understand Chinese values, beliefs, and norms through extensive analysis of these topics. The course also provides the opportunity to enhance Chinese reading skills by studying various styles of the stories. Taught in Chinese. Prerequisite: CHIN 301 and CHIN 305. Counts toward core requirement: Humanities. Offered intermittently. 4 credits.

FREN-101 Intro to French Language & Culture

The beginning course is intended to give training in the basic patterns and structures of French. Conversation and reading related to the cultures of French-speaking areas. Classroom work is supplemented by laboratory experience. 4 credits.

FREN-102 Intro French Language & Culture

Continuation of FREN 101. The beginning course is intended to give training in the basic patterns and structures of French. Conversation and reading related to the cultures of French-speaking areas. Classroom work is supplemented by laboratory experience. Prerequisite: FREN 101 or placement. 4 credits.

FREN-195 Independent Study

See department for details. Independent study contract required.

FREN-201 Intermediate French

Focus on conversational skills, and comprehension French and francophone cultures, reading, and grammar. Prerequisite: FREN 102 or placement. 4 credits.

FREN-202 Intermediate French

A continuation of FREN 201. Focus on conversational skills, comprehension, French and francophone cultures, reading, and grammar. Prerequisite: FREN 201 or placement. 4 credits.

FREN-215 Conversation Laboratory

This course is designed to compliment 200-level and upper-division French language courses and provide additional opportunity for improving speaking and writing skills, although students who have completed at least 102 in French are eligible to enroll. Students will participate in weekly

discussions and oral activities and produce presentations and written work in French. Course taught entirely in French. Does not count towards the French major or minor. Prerequisite: FREN-102 or placement. May be repeated once for credit. Offered spring semester. Pass/No Pass. 2 credits.

FREN-255 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

FREN-275 Internship

See department for details. Internship contract required. 1-4 credits.

FREN-295 Independent Study

See department for details. Independent study contract required.

FREN-304 French & Francophone Theatre

Analysis of representative plays by French and Francophone authors including Jarry, Sartre, Anouilh, Genet, Beckett, Ionesco, Schwarz-Bart, and others. Introduction of theoretical texts relevant to the plays studied. Taught in French. Prerequisite: FREN 202 or placement. Counts toward core requirement: Humanities. Offered intermittently. 4 credits.

FREN-308 France Today

Reading and discussion of selected articles from French newspapers and magazines. Course work would be supplemented by relevant video and audio-visual materials. Taught in French. Prerequisite: FREN 202 or placement. Counts toward core requirement: Humanities (2010 catalog). Offered intermittently. 4 credits.

FREN-309 French Popular Culture

French popular culture shapes most discussions of both private and public spheres of the everyday French experience. From recreational to professional settings, popular culture is a vessel for engaging and being engaged with others. A firm grasp of French popular culture is a prerequisite to understanding and integrating into French society. By examining a wide variety of aspects of French popular culture, this course prepares students for travel in France and furthers the knowledge and cultural awareness needed to thrive in conversational French with contemporary French citizens. Prerequisite: FREN 202 or equivalent proficiency. Counts toward core requirement: International Perspective. 4 credits.

FREN-311 Composition & Conversation

Practice in conversational idiom through reading and discussion of contemporary short stories, periodical literature and oral interviews. Extensive practice in composition with an aim toward improving students' communicative skills in written and oral French. Taught in French. Prerequisite: FREN 202 or placement. Counts toward core requirement: Humanities (2010 catalog). Offered alternate years. 4 credits.

FREN-312 French Pronunciation/Intonation

This course offers students studying French the opportunity to improve their pronunciation skills, as well as listening comprehension through the study of phonetics and practice of intonation and pronunciation patterns. Prerequisite: FREN 202 or placement. Counts toward core requirement: Humanities (2010 catalog). 4 credits.

FREN-315 Discovery of France

Culminating in a travel experience to Paris and one or two other regions from France, this course explores contemporary France and French culture through the lenses of a specific discipline, such as media arts, photography, and history, among other possibilities. Part of the course will be taught in French by a French professor, and the other part, in English, by a professor who specializes in the elected discipline. Prerequisite: FREN 202 or placement. Counts toward core requirement: Humanities. May be repeated once for credit with instructor permission. 4 credits.

FREN-320 Women's Writing in Francophone World

Survey of women's writing in the Francophone world throughout the 20th century. Special focus on the novel and the development of alternative prose forms. Authors from France, Switzerland, Belgium, Quebec, the French Caribbean, Senegal, and Algeria may be included. Taught in French. Also listed as GSS 321. Prerequisite: FREN 202 or placement. Counts toward core requirement: Humanities and/or International Perspectives. Offered intermittently. 4 credits.

FREN-355 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

FREN-365 French in the Elementary School

This course is an introduction to the principles of second language acquisition and instruction in elementary school programs. Students will plan and implement lessons for after-school French program involving first through fourth graders. Class includes weekly trips to local elementary schools. Does NOT meet the upper-division major requirement for French, International Studies, or Modern Languages with an emphasis in French. Prerequisite: FREN 102. Instructor's consent required. Counts toward core requirement: Humanities (2010 catalog) and Civic Engagement. May be repeated once for credit. 2 credits.

FREN-385 Seminar in French

A concentrated study of one of the major movements in French and Francophone literature, art, and culture. Topics include: the rise of Classicism, the French Revolution, the 19th century French novel, writing and resistance: 1848-1968, and literature in French-speaking Switzerland. Taught in French. Counts toward core requirement: Humanities (2010 catalog) and International Perspectives. May be repeated for credit. Offered intermittently. 4 credits.

FREN-395 Independent Study

See department for details. Independent study contract required.

FREN-404 French & Francophone Theatre

Analysis of representative plays by French and Francophone authors including Jarry, Sartre, Anouilh, Genet, Beckett, Ionesco, Schwarz-Bart, and others. Introduction of theoretical texts relevant to the plays studied. Students taking the course at the 400-level must complete more elaborate assignments in French that require more expertise in French. Taught in French. Prerequisite: Two 300-level FREN courses or 12 upper-division credits earned overseas in a French-speaking country. Counts toward core requirement: Humanities (2010 catalog). Offered intermittently. 4 credits.

FREN-408 France Today

Reading and discussion of selected articles from French newspapers and magazines. Course work would be supplemented by relevant video and audio-visual materials. Students taking the course at the 400-level must complete more elaborate assignments in French that require more expertise

in French. Taught in French. Prerequisite: Two 300-level FREN courses or 12 upper-division credits earned overseas in a French-speaking country. Counts toward core requirement: Humanities (2010 catalog). Offered intermittently. 4 credits.

FREN-409 French Popular Culture

French popular culture shapes most discussions of both private and public spheres of the everyday French experience. From recreational to professional settings, popular culture is a vessel for engaging and being engaged with others. A firm grasp of French popular culture is a prerequisite to understanding and integrating into French society. By examining a wide variety of aspects of French popular culture, this course will allow study abroad returnees in French to reflect upon and strengthen their knowledge and cultural awareness of contemporary France and its citizens. Prerequisites: Completion of Study Abroad requirement for the French Major or equivalent. Counts toward core requirement: International Perspective. 4 credits.

FREN-411 Composition & Conversation

Practice in conversational idiom through reading and discussion of contemporary short stories, periodical literature and oral interviews. Extensive practice in composition with an aim toward improving students' communicative skills in written and oral French. Students taking this course at the 400-level must complete more elaborate assignments in French that will require more expertise in French. Taught in French. Prerequisite: Two 300-level FREN courses or 12 upper-division credits earned overseas in a French-speaking country. Counts toward core requirement: Humanities (2010 catalog). Offered alternate years. 4 credits.

FREN-420 Women's Writing in Francophone World

Survey of women's writing in the Francophone world throughout the 20th century. Special focus on the novel and the development of alternative prose forms. Authors from France, Switzerland, Belgium, Quebec, the French Caribbean, Senegal, and Algeria may be included. Students taking the course at the 400-level must complete more elaborate assignments in French that require more expertise in French. Taught in French. Also listed as GSS 421. Prerequisite: Two 300-level FREN courses or 12 upper-division credits earned overseas in a French-speaking country. Counts toward core requirement: Humanities and/ or International Perspectives. Offered intermittently. 4 credits.

FREN-475 Internship

See department for details. Internship contract required.

FREN-485 Seminar in French

A concentrated study of one of the major movements in French and Francophone literature, art, and culture. Topics include: the rise of Classicism, the French Revolution, the 19th century French novel, writing and resistance: 1848-1968, and literature in French-speaking Switzerland. Students taking the course at the 400-level must complete more elaborate assignments in French that require more expertise in French. Taught in French. Counts toward core requirement: Humanities (2010 catalog) and International Perspectives. May be repeated for credit. Offered intermittently. 4 credits.

FREN-494 Senior Thesis French

This course is designed to assist senior students who are writing a thesis for a major in French. Students will receive direction in completing their research proposal and help in conducting and writing their senior thesis in French. These are student-conducted individual research theses. Students take 494 and 495 in consecutive semesters. Taught in French. Prerequisite: Senior standing (90 or more completed credits) and study abroad. 2 credits.

FREN-495 Senior Thesis in French

This course is designed to assist senior students who are writing a thesis for a major in French. Students will receive direction in completing their research proposal and help in conducting and writing their senior thesis in French. These are student-conducted individual research theses. Students take 494 and 495 in consecutive semesters. Taught in French. Prerequisite: FREN 494. 2 credits.

GER-101 Intro to German Language & Culture

The beginning course is intended to give training in the basic patterns and structures of German. Conversation and reading related to the cultures of German-speaking areas. 4 credits.

GER-102 Intro to German Language & Culture

A continuation of GER 101. The beginning course is intended to give training in the basic patterns and structures of German. Conversation and reading related to the cultures of German-speaking areas. Prerequisite: GER 101 or placement. 4 credits.

GER-195 Independent Study

See department for details. Independent study contract required. 1-6 credits.

GER-201 Intermediate German

Designed to prepare students to identify conversational vocabulary. Expansion of conversational, reading, and comprehension skills. Review and development of grammatical constructions most commonly used in speaking. Use of periodical and literary sources and audio-visual materials. Prerequisite: GER 102 or placement. 4 credits.

GER-202 Intermediate German

Continuation of GER 201. Designed to prepare students to identify conversational vocabulary. Expansion of conversational, reading, and comprehension skills. Review and development of grammatical constructions most commonly used in speaking. Use of periodical and literary sources and audio-visual materials. Prerequisite: GER 201 or placement. 4 credits.

GER-215 Conversation Laboratory

This course is designed to complement 200-level and upper-division German language courses and provide additional opportunity for improving speaking and writing skills, although students who have completed at least 102 in German are eligible to enroll. Students will participate in weekly discussions and oral activities and produce presentations and written work in German. Course taught entirely in German. Prerequisite: GER 102 or placement. May be repeated once for credit. Offered spring semester. Pass/No Pass. 1 credit.

GER-255 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

GER-275 Internship

See department for details. Internship contract required. 1-4 credits.

GER-295 Independent Study

See department for details. Independent study contract required.

GER-301 Topics in German Culture

Extensive practice in composition and conversation. Reading and discussion of materials from German media, music, and literature and audio-visual materials develop the students' comprehension of the German language, society and culture. Prerequisite: GER 202 or placement. Counts toward core requirement: Humanities (2010 catalog). Offered alternate years. 4 credits.

GER-302 Contemporary Short Stories & Narrations

Study of significant short stories by major writers in the German-speaking world of the 20th- and 21st centuries. Students present on stories or authors not covered in the classroom. Prerequisite: GER 202 or placement. Counts toward core requirement: Humanities. Offered intermittently. 4 credits.

GER-303 German Literature & Culture:1750-Present

Study of significant developments in literature and culture with focus on the Enlightenment, Classicism, Romanticism, Realism, Expressionism, the Nazi period, and the post-WWII period, including the 1990 unification. Prerequisite: GER 202 or placement. Taught in German. Counts toward core requirement: Humanities. Offered intermittently. 4 credits.

GER-304 German Drama

Analysis of representative theater pieces by writers in the German-speaking world from the eighteenth century to the present, including Louise Gottsched, Lessing, Schiller, Goethe, Schnitzler, Brecht, Durrenmatt, Frisch, Jelinek, and others. Students will improve language skills through analyzing texts closely, viewing performances on film, performing short scenes in class, writing critiques of the plays, and adapting a play for performance. Taught in German. Prerequisite: GER 202 or placement. Counts toward core requirement: Humanities. Offered intermittently. 4 credits.

GER-305 Music, Modernism, & Megalomania

Study of significant developments in culture in the German-speaking countries from 1750-1950. Focus is on Enlightenment, Classicism, Romanticism, Realism, Expressionism, the Nazi period, and the immediate post-WWII period. Taught in German. Prerequisite: GER 202 or placement. Counts toward core requirement: Humanities. Offered intermittently. 2 credits.

GER-306 From Ruins to Reunification

Analysis of significant developments in cultures in the German-speaking countries from 1950 to the present with a focus on the existence of two German states and on reunification. Students will improve language skills through analyzing texts closely, viewing media, performing short reenactments of cultural events, and completing a final project. Taught in German. Prerequisite: GER 202 or placement. Counts toward core requirement: Humanities and International Perspectives. Offered intermittently. 2 credits.

GER-315 Advanced Grammar & Composition

Extensive review of advanced grammatical concepts and practice of written idiom through reading, viewing, discussing, and writing. Use of written and multi-media texts provide context for grammatical structures. Development of vocabulary in conjunction with grammatical constructions occurs through analysis of students' written and oral work and correction of errors. Prerequisite: GER 202 or placement. Offered intermittently. 4 credits.

GER-355 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

GER-395 Independent Study

See department for details. Independent study contract required.

GER-400 German Film

Analysis of significant 20th and 21st-century German films with concentration on films from contemporary times. Study of theoretical and literary texts in relation to the cultural and political climate. Taught in German. Instructor's consent required. Counts toward core requirement: Humanities (2010 catalog). Offered intermittently. 4 credits.

GER-475 Internship

See department for details. Internship contract required.

GER-485 Seminar in German Studies

An in-depth study of various cultural issues as reflected in the literature, art, history, and politics of German-speaking countries. Topics include: survey of German literature in historical context; German unification; gender and society; politics and culture; Austrian literature and culture; bestselling novels; topics in the contemporary media. Taught in German. Instructor's consent required. Counts toward core requirement: Humanities (2010 catalog). May be repeated for credit when content varies. Offered intermittently. 4 credits.

GER-494 Senior Thesis in German Studies I

This course is designed to assist senior students who are writing a thesis for a major in German Studies. Students will receive direction in completing their research proposal and help in conducting and writing their senior thesis in German and presenting publicly on their research. These are student-conducted individual research theses. Students take GER 494 and GER 495 in consecutive semesters. Taught in German. Prerequisite: Senior standing (90 or more completed credits) and study abroad. 2 credits.

GER-495 Senior Thesis in German Studies II

This course is designed to assist senior students who are writing a thesis for a major in German Studies. Students will receive direction in completing their research proposal and help in conducting and writing their senior thesis in German and presenting publicly on their research. These are student-conducted individual research theses. Students take GER 494 and GER 495 in consecutive semesters. Taught in German. Prerequisite: GER 494. 2 credits.

JAPN-101 Intro to Japanese Language & Culture

Intensive introductory Japanese. Training in the basic patterns and structures of Japanese. Emphasis on oral and aural skills. Japanese writing of Hiragana and Katakana is introduced from the beginning to ensure the overall development of language skills. Development of cultural awareness that influences language usage. 4 credits.

JAPN-102 Intro to Japanese Language & Culture

A continuation of JAPN-101. Intensive introductory Japanese. Training in the basic patterns and structures of Japanese. Emphasis on oral and aural skills. Japanese writing of Hiragana and Katakana is introduced from the beginning to ensure the overall development of language skills. Development of cultural awareness that influences language usage. Prerequisite: JAPN-101 with a minimum grade of C- or placement. 4 credits.

JAPN-201 Intermediate Japanese

Expansion of conversational and oral presentation skills. Development of reading and writing skills with a focus on essay writing. Application of cultural awareness in Japanese language learning. Prerequisite: JAPN-102 with a minimum grade of C- or placement. 4 credits.

JAPN-202 Intermediate Japanese

Expansion of conversational skills. Development of reading and writing skills in three different types of characters in Japanese; Hiragana, Katakana, and Kanji. Application of cultural awareness through learning honorific and humble expressions. Prerequisite: JAPN-102 with a minimum grade of C- or placement. 4 credits.

JAPN-221 Kanji for Everyone

This course is designed for students who are studying Japanese, yet want to improve their skills and knowledge in using Kanji in their coursework and outside of class. The course will apply various teaching methods to make Kanji learning more approachable and interesting to learners. Students will participate in a variety of interactive activities that use Kanji. The course also adopts various approaches to Kanji: historical, linguistic, epistemological and very practical approaches. Prerequisite: JAPN-102. 2 credits.

JAPN-255 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

JAPN-275 Internship

See department for details. Internship contract required. 1-4 credits.

JAPN-295 Independent Study

See department for details. Independent study contract required.

JAPN-301 Communicating in Japanese

Development of communicative competence in Japanese with emphasis on conversational skills. Reading and writing skills will also be practiced to expand vocabulary and cultural knowledge. Application of cultural awareness in various communication situations. Prerequisite: 8 credits from 200-level JAPN courses with a minimum grade of C- or equivalent proficiency. 4 credits.

JAPN-302 Communicating in Japanese

Development of communicative competence in Japanese with emphasis on conversational skills. Reading and writing skills will also be practiced to expand vocabulary and cultural knowledge. Application of cultural awareness in various communication situations. Prerequisite: 8 credits from 200-level JAPN courses with a minimum grade of C- or equivalent proficiency. 4 credits.

JAPN-315 Grammar and Composition

Extensive review of grammatical concepts and practice of written idiom through reading, writing, and discussing short stories, newspapers, films, and magazine articles. Development of vocabulary and grammatical constructions through composition with analysis and corrections of student's errors in class. Prerequisite: JAPN-202 with a minimum grade of C- or placement. Offered alternate years. 4 credits.

JAPN-355 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

JAPN-395 Independent Study

See department for details. Independent study contract required.

JAPN-401 Topics in Contemporary Literature

Study of Japanese culture through selected topics in contemporary literature. Topics include various human relationships in Japan, love and death, aesthetic attitudes, attitudes toward religion. Extensive analysis of these topics by understanding Japanese cultural values, beliefs, norms and behavioral patterns. Taught in Japanese. Prerequisite: one 300 level JAPN course with a minimum grade of C-. Counts toward core requirement: Humanities and International Perspectives. 4 credits.

JAPN-402 Selected Issues in Japanese Press

The course provides the opportunity to enhance Japanese reading skills and acquisition of cultural knowledge through newspaper and magazine article reading. Supplementary materials are brought in to broaden the student's understanding of the Japanese language, people and culture. Taught in Japanese. Prerequisite: One 300 level JAPN course with a minimum grade of C-. Counts toward core requirement: International Perspectives. May be repeated for credits with topic varies. Offered intermittently. 4 credits.

JAPN-405 Advanced Grammar & Composition

This course provides skills for writing in Japanese and knowledge about Japanese grammar. Japanese grammar is introduced in depth in order to facilitate better writing in the target language. Students are encouraged to challenge new vocabulary, new sentence patterns, and new expressions by applying knowledge about the Japanese language, including grammar and culture when they write in Japanese. Since this is a 400-level course, students are expected to practice self-monitoring of their writing by applying knowledge of Japanese grammar rather than depending on instructor's correction. Prerequisite: one 300-level Japanese course with a minimum grade of C-. 4 credits.

JAPN-455 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

JAPN-475 Internship

See department for details. Internship contract required.

JAPN-485 Seminar in Japanese Studies

An in-depth study of various cultural issues as reflected in the literature, art, history and politics of Japan. Topics include: survey of Japanese literature in historical context; gender and society; politics and culture. Taught in Japanese. Prerequisite: One 300 level JAPN course with a minimum grade of C-. Counts toward core requirement: International Perspective. May be repeated for credit. 4 credits.

JAPN-490 Senior Capstone I

This capstone course is required of all Japanese majors. Seniors will conduct extensive projects, exploring social, cultural, linguistic or literary issues under the supervision of faculty. Emphasis will be placed on scholarly work using both Japanese and English reference, acquisition of translation techniques and critical analysis of various written materials. Prerequisite: Senior standing (90 or more completed credits), declared Japanese major, and study abroad in Japan. Instructor's consent required. 2 credits.

JAPN-491 Senior Capstone II

Continuation of JAPN 490. Seniors will finish writing a thesis following the outline and research methods proposed in JAPN 490 by applying formal Japanese writing style. Prerequisite: JAPN 490. 2 credits.

JAPN-495 Research

See department for details. Independent Study contract required.

SPAN-101 Intro to Spanish Language & Culture

The beginning course is intended to give training in the basic patterns and structures of Spanish. Conversation and reading related to the cultures of Spanish-speaking areas. Classroom work is supplemented by laboratory practice. 4 credits.

SPAN-102 Intro to Spanish Language & Culture

A continuation of Span 101. The beginning course is intended to give training in the basic patterns and structures of Spanish. Conversation and reading related to the cultures of Spanish-speaking areas. Classroom work is supplemented by laboratory practice. Prerequisite: SPAN 101 with a minimum grade of C- or placement. 4 credits.

SPAN-195 Independent Study

See department for details. Independent study contract required.

SPAN-201 Intermediate Spanish

Focus on conversational skills, comprehension, Hispanic cultures, reading, and grammar. Prerequisite: SPAN 102 with a minimum grade of C- or placement. 4 credits.

SPAN-202 Intermediate Spanish

Continuation of SPAN-201. Focus on conversational skills, comprehension, Hispanic cultures, reading, and grammar. Prerequisite: SPAN 201 with a minimum grade of C- or placement. 4 credits.

SPAN-211 Spanish for Heritage Speakers

This course is designed for students who are native speakers of Spanish but have not studied the language formally. In this course, students will learn accentuation, syllabification, grammatical terminology and sentence analysis through written exercises and readings related to the culture of the Spanish speaking communities in other countries and within the United States. Instructor's consent required. Students may take SPAN 202 or SPAN 211, but may only earn credit for one of these courses. 4 credits.

SPAN-215 Spanish Conversation Laboratory

This course is designed as a conversation lab for students enrolled in SPAN 201 and 202, although those who have completed SPAN 102 are eligible to enroll. The course provides additional opportunity to improve speaking and writing skills. Students will participate in weekly discussions and oral activities and produce presentations and written work in Spanish. Course taught entirely in Spanish. Prerequisite: SPAN 102. Pass/No Pass. 1 credit.

SPAN-255 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

SPAN-275 Internship

See department for details. Internship contract required. 1-4 credits.

SPAN-295 Independent Study

See department for details. Independent study contract required.

SPAN-301 Composition and Conversation

Practice in conversational idiom through reading and discussion of contemporary short stories, periodical literature, and oral interviews. Extensive practice in composition with analysis and correction of students' errors in the classroom. Taught in Spanish. Prerequisite: SPAN 202 with a minimum grade of C- or placement. Offered annually. 4 credits.

SPAN-303 Intro to Hispanic Literature

An introduction to the study of literature in Spanish through the genres from different periods and countries of the Hispanic world. Continued practice in composition with in-class student presentations. Taught in Spanish. Prerequisite: SPAN 202 with a minimum grade of C- or placement. Counts toward core requirement: Humanities. Offered annually. 4 credits.

SPAN-305 Contemporary Spanish Poetry

Analysis of representative poems of the major contemporary poets of Spain and Latin America: Antonio Machado, Garcia Lorca, Juan Ramon Jimenez, Vicente Alexandre, Pablo Neruda, Cesar Vallejo, and others. Student reports on poems and authors not covered in the classroom. Prerequisite: SPAN 202 or placement. Taught in Spanish. Counts toward core requirement: Humanities. Offered intermittently. 4 credits.

SPAN-310 Contemporary Spanish Music and Cultures

Study and analysis of representative genres of popular music and their relationship to culture and literature in twentieth-century Spanish America and/or Spain: "Musica Folklorica," "El bolero y la baladam," "La cancion politica," "musica Afro-hispana," "Latin-Jazz," "Rock en espanol" and others. Students will report on material not covered in the classroom. Prerequisite: SPAN 202 with a minimum grade of C- or placement. Counts toward core requirement: Comparative Cultural. Offered intermittently. 4 credits.

SPAN-315 Advanced Grammar and Composition

This course is designed to "fill in" the Spanish grammar and vocabulary gaps of the advanced/intermediate student. Course reviews the more difficult grammatical structures in Spanish while introducing advanced vocabulary, idioms and colloquialisms. Emphasizes vocabulary building, composition skills and comprehension of the wide range of Spanish found in literature, journalism, and everyday speech. Taught in Spanish. Prerequisite: SPAN 202 with a minimum grade of C- or placement. Offered intermittently. 4 credits.

SPAN-325 Mexican-American Cultural Exploration

This course offers students studying Spanish a chance to improve their linguistic abilities and their understanding of the cultures of Mexico and Mexican-Americans through direct contact with local native Spanish speakers. In addition to meeting as a class 3 hours/week to discuss readings on the socio-economic, political and health situations of Spanish speakers living in the US, students conduct 30 hours of service learning in local organizations that provide services exclusively or predominantly to Latinos. Taught in Spanish. Prerequisite: SPAN 202 or placement. Counts toward core requirement: Civic Engagement and Diverse Perspectives. Offered annually. 4 credits.

SPAN-355 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

SPAN-395 Independent Study

See department for details. Independent study contract required.

SPAN-400 Survey Spanish Peninsular Lit & Culture

A study of the major works and literary movements of 20th century Spain. Taught in Spanish. Prerequisite: one 300-level SPAN course with a minimum grade of C-. Recommended: Study Abroad or high fluency in Spanish. Counts toward core requirement: Humanities. Offered alternate years. 4 credits.

SPAN-403 Contemporary Spanish Cinema

This class will be a survey of Spanish language film, with emphasis on contemporary productions. While the focus of the course may vary, the principal objective is for the student to develop a broad understanding of central issues and movements within Spanish language film. The course will expose the student to a variety of different genres, directors, and countries. We will study the films within their sociopolitical, historic, and/or filmic contexts and will analyze how context is reflected within film as a cultural production. Prerequisite: One 300-level SPAN course with a minimum grade of C-. Recommended: Study Abroad or high fluency in Spanish. Offered intermittently. 4 credits.

SPAN-405 Survey of Spanish American Lit & Culture

A study of the major works and literary movements of Spanish America. Taught in Spanish. Prerequisite: one 300-level SPAN course with a minimum grade of C-. Recommended: Study Abroad or high fluency in Spanish. Counts toward core requirement: Humanities. 4 credits.

SPAN-406 Special Topics Spanish American Studies

Detailed study of works of selected areas of Spanish American cultures. Prerequisite: one upper division SPAN course with a minimum grade of C-. Recommended: Study Abroad or high fluency in Spanish. Counts toward core requirement: International Perspectives. May be repeated for credit when topic varies. 4 credits.

SPAN-407 Special Topics Spanish Studies

Detailed study of works of selected areas of Spanish Peninsular cultures. Prerequisite: one upper division SPAN course with a minimum grade of C-. May be repeated for credit when topic varies. 4 credits.

SPAN-455 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

SPAN-475 Internship

See department for details. Internship contract required.

SPAN-490 Capstone in Spanish I

A culminating research/experiential project in Spanish, directed by a faculty member or faculty members. In Span 490, students begin and make significant progress on a year-long project that will culminate in Span 491 with an extensive paper written in Spanish, and a public presentation, also in Spanish, given on Senior Projects Day. See Spanish program faculty for more details. Prerequisite: Senior standing (90 or more completed credits) and SA-476. 2 credits.

SPAN-491 Capstone in Spanish II

Continuation of Span 490 in which students begin a culminating research/experiential project in Spanish, directed by a faculty member or faculty members. In Span 491, students complete an extensive paper written in Spanish, and give a public presentation, also in Spanish, on Senior Projects Day. See Spanish program faculty for more details. Prerequisite: Senior standing (90 or more completed credits) and SA-476. 2 credits.

SPAN-495 Research

See department for details. Independent study contract required.

WORL-101 Introduction to Language & Culture

See department course description.

WORL-102 Introduction to Language & Culture

See department for course description.

WORL-155 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

WORL-195 Independent Study

See department for details. Independent study contract required.

WORL-201 Introduction to Language & Culture

See department for course description.

WORL-202 Introduction to Language & Culture

See department for course description.

WORL-255 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

WORL-275 Internship

See department for details. Internship contract required. 1-4 credits.

WORL-325 Mentoring & Tutoring in the Languages

Students in this course will be a mentor in one section of a beginning language class at Pacific, at least one day/week. They may assist in the classroom and in preparing materials at the language instructor's discretion. Students will also offer at least two hours/week of tutoring in the Tutoring Center (TLC), attend an orientation, and promote the TLC and language in the community. Students will meet 130 minutes/week with the supervising

WORL 325 instructor. Mentoring may not be available in all languages or in all semesters. Counts toward core requirement: Civic Engagement. Prerequisite: 202-level of target language or equivalent proficiency. Instructor's consent required. May be repeated once for credit. 2 credits.

WORL-355 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

WORL-365 Teaching Lang & Culture Elem School

Students will learn the basics of foreign language acquisition, lesson planning and classroom management through this seminar and practicum in foreign language instruction. Students will meet with the instructor of the course for the first four weeks to learn pedagogical and class-management skills; thereafter, they will make weekly trips (11 weeks total) to local elementary schools to teach the language and culture of the target language (must be a language taught at Pacific). During the practicum portion of the class, students will also meet weekly with the instructor to develop upcoming lessons and to evaluate/troubleshoot previous lessons. In addition the instructor will rotate weekly to each school group to observe the students' class. Prerequisite: Foreign Language 202 or equivalent proficiency. Instructor's consent required. Counts toward core requirement: Civic Engagement. 4 credits

WORL-395 Independent Study

See department for details. Independent Study contract required.

WORL-401 Thesis in Modern Languages I

Students will conduct individual research on a topic related to their study of two (or three) languages. They will start writing an extensive paper (30-50 pages) in English wherein they explore a specific phenomenon or topic. Students will present thesis in the spring at senior thesis day. Prerequisite: SA-476. 2 credits.

WORL-402 Thesis in Modern Languages II

Continuation of WORL 401. Students will finish writing their thesis. They will write an extensive paper (30-50 pages) in English wherein they explore a specific phenomenon or topic. Students will present thesis in the spring at senior thesis day. Prerequisite: WORL 401. 2 credits.

WORL-430 Methods of Teaching Foreign Language

Theoretical and practical considerations in the teaching of foreign languages at the elementary and secondary school levels. Required of all who are working for certification as language teachers. Instructor's consent required. 3 credits.

WORL-455 Special Topics

Go to <https://www.pacificu.edu/about-us/centers-institutes/advising-center/new-topics-travel-class-descriptions> or see the Advising Center.

WORL-495 Research

See department for details. Independent study contract required.