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# BIOETHICS

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Director: Suzanne Holland, *John B. Magee Professor of Science & Values, Religious Studies and Honors*

Advisory Committee: Gregory Johnson, *Biology*; Kristin Johnson, *Science, Technology, & Society (on leave 2020-2021)*; Jung Kim, *Exercise Science*; Hajung Lee, *Religious Studies*; Shen-Li Liao, *Philosophy*; Siddharth Ramakrishnan, *Biology/Neuroscience (on leave 2020-2021)*; Leslie Saucedo, *Biology*; Ariela Tubert, *Philosophy (on leave 2020-2021)*.

## About the Program

The interdisciplinary Bioethics Program (BIOE) is unique at Puget Sound, and rare among liberal arts colleges. This program encompasses work in the fields of biology, natural science, neuroscience, religion, philosophy, literature, sociology, psychology, politics, economics, and business. It enables students to study topics at the intersection of the life sciences and the humanities (broadly conceived) such as: regenerative medicine and human stem cell research, global health, race, culture, gender and health care, human and animal experimentation, genetic screening and gene therapy, human population growth, genetics, embryology, reproduction, death and dying, disability studies, neuroscience, and animal rights. The program prepares students for analyzing and understanding the ethical, social, cultural and historical dimensions of problems at the nexus of these topics. Faculty drawn from several disciplines and departments provide the unique interdisciplinary perspective that is the hallmark of this concentration.

The Bioethics Program at Puget Sound helps students to analyze, understand, and integrate the challenging issues facing society as a result of advances in medicine, health and science. In keeping with its interdisciplinary nature, the Bioethics Program highlights the following University of Puget Sound curricular goals: *An understanding of the interrelationship of knowledge; familiarity with diverse fields of knowledge; the ability to think logically and analytically; the ability to communicate clearly and effectively, both orally and in writing; informed appreciation of self and others as part of a broader humanity in the world environment; an acknowledged set of personal values.*

The Bioethics Program helps to prepare students for a broad range of future careers or advanced study in medicine and the health professions, the sciences, research, teaching, law, journalism, public policy, environmental health, hospital chaplaincy, biotechnology, social work, clinical ethics consultation, genetic counseling, and Master's programs in Bioethics or Public Health. Students who successfully complete the program receive a designation on the transcript of "Emphasis in Bioethics."

## Requirements for the Interdisciplinary Emphasis in Bioethics

Completion of six units to include:

- A. One unit of BIOL 101, 102, or 111 (these courses can satisfy the Natural Scientific Core requirement), or the AP equivalent.
- B. BIOE/REL 292 or BIOE/PHIL 292.
- C. Three elective units distributed as follows: Scientific (up to 1 course), Ethical (up to 2 courses), and Humanities & Social Sciences (up to 2 courses).
- D. BIOE 400 Bioethics Integration Seminar.

### Scientific

BIOL 212 Cell Biology  
BIOL 213 Genetics  
BIOL 361 Biochemical Pathways

BIOL 362 Nanobiology  
BIOL 370 Conservation Biology  
BIOL 375 Developmental Biology  
BIOL 404 Molecular Biology  
CONN 410 Science and Economics of Climate Change  
EXSC 424 Recent Advances in Cellular and Molecular Mechanisms of Neuroplasticity  
NRSC 201 Foundations of Neuroscience  
NRSC 450 Seminar in Neuroscience  
PSYC 312 Applied Psychological Measurement  
PSYC 320 Psychological Disorders

### Ethical

BIOE/REL 272 Public Health Ethics  
BIOE 350 Clinical Bioethics  
BIOE 392 Practicum: Clinical Bioethics  
CONN 393 The Cognitive Foundations of Morality and Religion\*  
PHIL 105 Neuroethics and Human Enhancement  
PHIL 250 Moral Philosophy  
PHIL 285 Environmental Ethics  
PHIL 370 Social and Political Philosophy  
PHIL 378 Philosophy of Law  
REL 265 Thinking Ethically  
REL 298 Reproductive Ethics  
STS 333 Evolution and Ethics\*

### Humanities & Social Sciences

BUS 478 Environmental Law  
COMM 352 Health Communication Campaigns  
CONN 320 Health and Medicine\*  
CONN 357 Exploring Animal Minds\*  
CONN 387 Never-Never Land\*  
CONN 478 Animals, Law, and Society\*  
ECON 225 Environmental and Natural Resource Economics  
ECON 327 Climate Change Economics, Policy, and Politics  
ENGL 348 Illness and Narrative: Discourses of Disease  
ENGL 374 Literature and the Environment  
IPE 331 The International Political Economy of Food and Agriculture  
IPE 389 Global Struggles over Intellectual Property\*  
PHIL 230 Philosophy of Mind  
PHIL 389 Race & Philosophy  
PHIL 390 Gender & Philosophy  
REL 204 Religions of the Book  
SOAN 225 Asian Medical Systems  
SOAN 360 Sociology of Health and Medicine  
SOAN 365 Global Health  
SOAN 370 Disability, Identity, and Power  
STS 310 I, Robot: Humans and Machines in the 20th and 21st Centuries  
STS 318 Science and Gender\*  
STS 330 Evolution and Society Since Darwin\*  
STS 366 History of Medicine  
STS 375 Science and Politics\*

\* Can also satisfy the Connections core requirement.

For complete descriptions of the elective courses, please consult the relevant departments in which these courses appear.

### Notes

1. BIOE/REL 292 or BIOE/PHIL 292 is a prerequisite for BIOE 392

and 400.

2. Students who study abroad may apply one approved course toward the elective requirement unless an exception is granted by the Program Director.

### Course Offerings

**272 Public Health Ethics** This course is an introduction to public health ethics in health policy and bioethics. It explores a broad spectrum of legal and public health contexts to demonstrate how religious and cultural factors affect health. Students analyze religion and culture as social determinants of health in various case studies. Case studies range from tobacco control laws to public health in religious communities. Course topics include vaccination, HIV/AIDS, sex education, racism and health, recreational use of marijuana, health of refugees, genetically modified organisms, drug pricing, gene patenting, PTSD, food policy, tobacco control, alternative medicine, and experiences with spirituality and healing. The class design utilizes a participatory, student-centered approach to classroom learning. Course materials include religious literature, legal cases, and public health literature. *Cross-listed with REL 272.*

**292 Basics of Bioethics** (Version cross-listed as REL 292.) This course is an examination of Western philosophical and religious understandings of moral issues brought on by advances in health care, science and technology. In this course, students will learn the “Principles approach” to bioethics, as well as other ethical approaches to the difficult moral issues raised by contemporary medical science and its clinical applications. To that end, case analysis will be used extensively in this course. The course is designed to help facilitate connections for students between medical/scientific advances, ethics, religious values, and American public policy about technology and health care. Each class session will alternate between theoretical and medical/scientific considerations, and the concreteness of bioethical case analyses. *Cross-listed as REL 292. Students may not receive credit for both BIOE/REL 292 and BIOE/PHIL 292. Offered every year.*

**292 Basics of Bioethics** (Version cross-listed as PHIL 292.) This course is an examination of Western philosophical understandings of moral issues brought on by advances in health care, science and technology. In this course, students will learn the “Principles approach” to bioethics, as well as other ethical approaches to the difficult moral issues raised by contemporary medical science and its clinical applications. *Cross-listed as PHIL 292. Students may not receive credit for both BIOE/PHIL 292 and BIOE/REL 292. Offered frequently.*

**350 Clinical Bioethics** BIOE 350 is an application of ethical principles and philosophical reasoning in the health care setting. The application of medical ethics to clinical situations goes beyond following standards of practice. This course will focus on clinical ethics and explore how it differentiates from the larger field of bioethics. This course will teach students to apply the foundational concepts of bioethics to a variety of real health care situations. Students will learn to think through and discuss the unique features presented by different health care settings. The course will familiarize students with the common responsibilities of a clinical ethicist including: consultation, education, and policy review/development. Students will analyze real clinical ethics cases, utilizing the four principles and the four-box method. This course will also focus on an exploration of health policy and its development, emphasizing social justice and human rights as providing the moral and ethical bases of policy. *Offered every other year.*

**392 Practicum: Clinical Bioethics** This course is an experiential learning course that focuses on the practical application of ethical principles and philosophical reasoning in a clinical health care setting. This course provides the opportunity for students to learn how to identify ethical issues and properly to address them in the clinical setting, as well as to learn the

practical approach to real-life clinical issues. Students split time between the classroom and the on-site hospital setting, taking information learned in different clinical settings and learning how to work through ethics issues. Students also learn typical duties of a clinical bioethicist including: consultations, education, and policy development/review. *Prerequisite: BIOE/REL 292 or BIOE/PHIL 292 and permission of instructor. Course alternates between on-campus and off-campus locations each week. Offered occasionally.*

**400 Bioethics Integration Seminar** This is the capstone course required of all last-semester senior students who aim to attain the interdisciplinary curricular designation of Emphasis in Bioethics. In this seminar students learn to synthesize the ethical implications of the courses they have taken toward the BIOE designation. Since the integration Seminar enrolls seniors from a variety of majors, the primary goals of the course are two-fold: (1) for students to learn to process, synthesize and integrate the ethical implications of the courses they have taken toward the Bioethics Emphasis, and (2) for students to discover their post-baccalaureate “niche” in the scholarly community of Bioethics and the medical humanities. Students individually or collaboratively research and explore in-depth a bioethical case issue from the variety of disciplinary perspectives that comprise the program in an attempt to understand the full complexity of the issue. *Prerequisite: BIOE/REL 292 or BIOE/PHIL 292; graduating seniors and permission of instructor. Offered every spring. Offered frequently.*