**BIOETHICS MINOR**

**Overview**

The interdisciplinary minor in bioethics encompasses work in the fields of biology, natural science, philosophy, sociology and theology. It enables students to study topics in which the life sciences and ethics converge, such as: biological and chemical weapons, human stem cell research, global warming, human and animal experimentation, pollution, genetic screening and gene therapy, and human population growth.

The bioethics minor helps to prepare students for a range of future careers, or for advanced study in the health professions, the sciences, teaching, law, journalism, ministry, research, government or social work. For many students, the study of bioethics not only deepens their understanding of science and its impact on our lives, but also strengthens their ability to think broadly and critically, and to better see the vital integration of science and technology with individuals and the world around us.

**Curriculum**

**Requirements**

The minor in bioethics requires at least seven courses completed with a grade of "C" or better. The science requirement is satisfied by taking either four courses in biology or three courses in the natural sciences. The ethics requirement is satisfied by 1) completing the foundational course (PHIL 284 Health Care Ethics); 2) taking two elective courses (one at the 300-level); and 3) one interdisciplinary capstone course (BIET 395A,B,C, or E or BIET 396A,B,C, or E). See below for more detailed information about which specific courses satisfy these requirements.

Please note that one of the three ethics courses must be taken at the 300-level. This means that in addition to BIET 395A,B,C, or E or BIET 396A,B,C, or E one of the three ethics courses must be a 300-level course.

**Code** | **Title** | **Hours**
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Science Requirement

Students will choose one of the following areas to fulfill the science requirement.

**Biology (BIOL) (All Four)**

BIOL 101 General Biology I
BIOL 111 General Biology I Lab
BIOL 102 General Biology II
BIOL 112 General Biology II Lab

**Life Sciences (Any Three)**

ANTH 101 Human Origins
ANTH 103 Biol Bkgrd Human Social Behvr
ANTH 104 The Human Ecological Footprint
ANTH 105 Human Biocultural Diversity
ANTH 106 Sex/Science/Anth Inquiry
ANTH 280 Evolution of Human Disease
ANTH 303 People and Conservation
ENVS 204 Gender, Health & Environment
ENVS 207 Plants and Civilization
ENVS 218 Biodiversity & Biogeography
ENVS 223 Soil Ecology

**Ethics Requirement**

**Foundations Course**

PHIL 284 Health Care Ethics

Beyond the foundations course, students take 2 additional ethics courses, one of which must be at the 300 level. The courses from which to choose include:

**Philosophy**

PHIL 287 Environmental Ethics
PHIL 355 Neuroethics
PHIL 369 Philosophy of Medicine
PHIL 398 Capstone Seminar in Contemporary Philosophy

**Theology**

THEO 204 Religious Ethics and the Ecological Crisis
THEO 342 Perspectives on Life and Death
THEO 343 Contemporary Christn Sexuality
THEO 344 Theology and Ecology

The following courses count for the minor if the specific topic treated relates to bioethics:

PHIL 324 Topics in Ethics: X
PHIL 389 Contemporary Issues: X
PHIL 398 Capstone Seminar in Contemporary Philosophy
THEO 192 Topics in Moral Problems
THEO 393 Seminar

**Health Systems Management**

HSM 110 Healthcare in America
HSM 210 Introduction to Global Healthcare Delivery
HSM 220 Continuum of Healthcare Services
HSM 230 Fundamentals of Health Equity

**Psychology**

PSYC 235 Psychology of Human Sexuality
PSYC 238 Gender & Sex Diff & Similar
PSYC 373 Health Psychology

**Sociology**

SOCL 226 Science,Technology & Society
SOCL 225 Sociology of Health Care
SOCL 270 Sociology of Science
SOCL 272 Environmental Sociology
SOCL 278 Global Health

**Interdisciplinary Requirement**

BIET 395A Bioethics Minor Capstone: Philosophical & Anthropological Topics
BIET 395B Bioethics Minor Capstone: Philosophical & Biological Topics
Bioethics Minor

or BIET 395C  Bioethics Minor Capstone: Philosophical and Chemical Topics
or BIET 395E  Bioethics Minor Capstone: Philosophical & Environmental Science Topics
or BIET 396A  Bioethics Minor Capstone: Theological & Anthropological Topics
or BIET 396B  Bioethics Minor Capstone: Theological and Biological Topics
or BIET 396C  Bioethics Minor Capstone: Theological and Chemical Topics
or BIET 396E  Bioethics Minor Capstone: Theological & Environmental Science Topics

Total Hours 18-21

1 These courses count only when they address topics in bioethics.
2 For example: Environmental Ethics; HIV/AIDS; Reproduction & Reproductive Technologies, Death & Dying, Neuroscience & Neuroethics). Prerequisites: Must have completed two of the science requirements and two of the ethics requirements.

Double-Dipping Policy

• Students may not major and minor in the same discipline.
• Majors: Not less than 21 credit hours in the individual student’s transcript must be unique to each major; that is, the courses in question are considered as actually fulfilling requirements of one major, not of more than one major.
• Minors and interdisciplinary minors: not less than 8 credit hours in the individual student’s transcript must be unique to each minor; that is, the courses in question are considered as actually fulfilling requirements of one minor, not of more than one minor or major.

Learning Outcomes

Upon completion of the program, students will:

• Understand relevant scientific concepts, techniques, and methods as they relate to bioethical topics
• Recognize bioethical issues
• Apply ethical reasoning and ethical judgment (concepts, theories, methods) to discuss bioethical issues
• Integrate science and ethics such that students can take a bioethical topic or issue and connect the scientific with the ethical issues.