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ABSTRACT

This directory lists programs and courses with an EVIST orientation, and other programs and courses related to EVIST as compiled from 2,000 questionnaires sent to educational institutions in all 50 states. EVIST-oriented programs are listed alphabetically by name of institution under two general categories: science, technology, and human values; and biomedical concerns. Programs are numbered sequentially, and for each the program name, institutional affiliation and address, program director, program description, affiliated courses, and program details are given, including the program scope, audience, date of initiation, and funding sources. EVIST-oriented courses are listed alphabetically by title under science, technology, and human values; environmental concerns; health care, behavioral, and life sciences; industry, commerce, and society; and public policy-making. For each course, the course title, name of instructor and department affiliation, institution and address, cross references to EVIST programs, course description, and other details are given. Programs and courses related to EVIST are listed alphabetically by title or program under science, technology, and society; environmental concerns; health care; and contemporary moral and ethical problems. For programs, the director's name, department, and institution are given; for courses, the department and institution are provided. (Author/MBR)

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# EVIST RESOURCE DIRECTORY

... a directory of programs  
and courses in the field of

## *Ethics and Values in Science and Technology*

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science/technology and human values  
science/technology and the arts  
and humanities  
science/technology and religion  
methodologies of science technology  
professional ethics

stewardship of natural resources  
global problems and strategies

social philosophical perspectives  
of biomedical sciences  
law, medicine, and the life sciences  
biomedical ethics

industry, commerce, and society  
computers/microelectronics  
media/communications

science/technology and public policy  
control of science technology  
role of scientists engineers  
in policymaking  
technology assessment forecasting

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## INTRODUCTION

Science and technology interpenetrate virtually all human activities and concerns--work, health care, law, religion, the arts and humanities, commerce and industry, natural resources, communications, social ethics, moral values, and public policymaking. Conversely, ethics and values permeate our endeavors in science and technology--biology, physics and chemistry, the medical sciences, the social and behavioral sciences, economics, the earth sciences, agriculture, engineering, environmental sciences, management and planning, and the information sciences.

The involvement of ethics and values in our practice of science and technology, historically a reality of timeless interest and curiosity, is the renewed and growing concern of a variety of scholars and practitioners. Higher education and public discussion today focus on the topic of ethics and values in science and technology (EVIST) with greater frequency and from apparently innumerable perspectives.

This EVIST Resource Directory is an effort to outline the landscape of current academic efforts in the area of EVIST. It is also a sketch of the scope of ideas which comprise the EVIST domain. Major topics, issues, concepts, and problems provide the organizing framework. This directory depicts a spectrum of efforts encompassing perennial issues and problems--science, technology, freedom and the nature of man--through current societal dilemmas and quandaries--genetic screening or environmental manipulation. There are nearly 120 programs and over 900 courses with EVIST orientation listed. Also, nearly 900 programs and courses related to EVIST are included. Over 500 institutions nationwide are represented in the directory.

The aim is to provide access to information about current EVIST programs and courses and to enable greater communication among persons involved or interested in EVIST, especially those who plan to develop new programs or courses. It is basically a directory of who is doing what in EVIST.

The directory is part of a continuing effort to describe scholarly interest in the field of science, technology, and society. In 1972 the staff of the Congressional Subcommittee on Science, Research and Development prepared a directory of science policy activities in North American universities (1). In 1974 Blanpied and Holton conducted a preliminary survey of college curricula which touched upon the interrelationships between science, technology, ethics, and values. Included was a compilation of scholarly and semi-popular literature published in these areas since 1968 (2). In 1976, Heitowit and Epstein compiled a listing of EVIST courses and programs throughout the U.S. (3). Their listing was the basis of the AAAS survey. Later in 1976, Heitowit, Epstein, and Steinberg prepared a guide to the field of science, technology, and society in the form of a comprehensive directory of teaching, research, and resources in the U.S. (4). And in 1977 Heitowit prepared a companion document which analyzes the current state of academic activities in the field of science, technology, and society (5).

In January and early February 1977 a questionnaire (see Appendix) was sent to the following groups of people: approximately 18,000 department heads (natural sciences, social sciences, humanities, engineering, law, medicine, philosophy, and theology) in all 50 states; approximately 300 scholars and institutions conducting EVIST programs and courses (reported in the Heitowit and Epstein listing of EVIST courses and programs); about 50 museums with education programs; and other people and organizations with possible interest in the area of EVIST (about 100). A copy of the Heitowit and Epstein listing of EVIST courses and programs (3) was included with the questionnaire to these people. Presidents and deans were informed of the survey by letter with a questionnaire and four-page excerpt of the Heitowit and Epstein listing. About 14,000 department heads were from 4-year colleges and universities and 4,000 from 2-year institutions. Approximately 1,600 presidents were from 4-year colleges and universities, 1,000 from 2-year colleges, and 400 from professional schools. The total number of deans was about 3,000.

Responses to the questionnaire were of three kinds in the following quantities: approximately 2,000 completed questionnaires (programs and courses), about 800 requests to be put on the mailing list, and approximately 150 responses indicating either no EVIST programs or courses, no interest in EVIST, or no desire to be on the mailing list.

## Organization and Use of the Directory

The directory is composed of three lists: programs with EVIST orientation, courses with EVIST orientation, and programs and courses related to EVIST.

Programs are broader efforts than courses. They can involve research, development (instructional materials, resource materials, bibliographies, etc.), or teaching and communication (seminars, workshops, colloquia, courses, lecture series, debates, etc.)

The line between "EVIST-oriented" and "EVIST-related" is at best broad and fuzzy. Programs and courses *with an EVIST orientation* are those directed towards ethics and values in science and technology. Emphasis is on both the domain of ethics and values and the domain of science and technology, and the emphasis is explicit. In the completed questionnaires this emphasis on the intersection of two fuzzy sets appeared in either the title, the description, or the key words that were reported. Sometimes the major resources listed in the questionnaire gave further evidence of the specific emphasis of the course or program. In programs and courses *related to EVIST* the emphasis on both domains was either not explicit, or the emphasis lay primarily within one or the other--ethics and values or science and technology.

*EVIST-oriented programs* are listed alphabetically by name of institution under two general categories: (1) science, technology, and human values, and (2) biomedical concerns. Programs are numbered sequentially. For each program the following information is included:

- program name
- institutional affiliation and address
- program director
- description of program
- affiliated courses, if any (with cross references to list of courses)
- program details

Program details include the scope of the program (research, development, or teaching/communication), the audiences of the program, the year the program began, and the program's direct source of funds. Figure 1 illustrates this information.

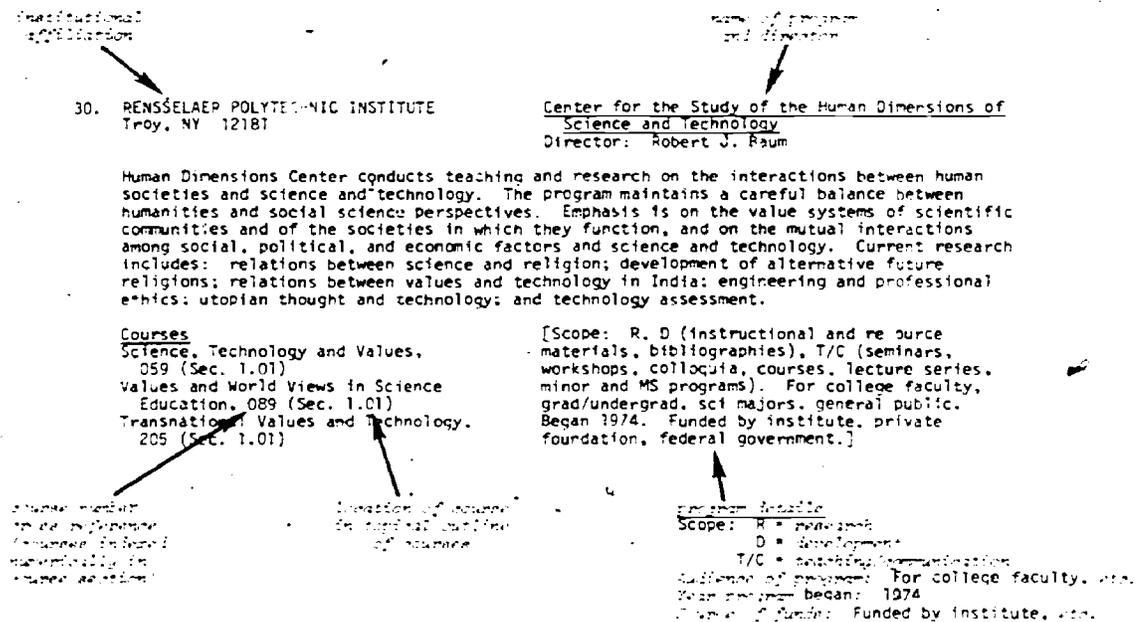


Figure 1

EVIST-related courses are listed alphabetically by course title under each section in the topical outline on page 33. Courses are numbered sequentially from 001 through 919. For each course the following information is given:

- course title
- name of instructor(s) and department affiliation
- institution and address
- cross reference to EVIST program, if part of a program
- description of course
- course details

Figure 2 illustrates this information.

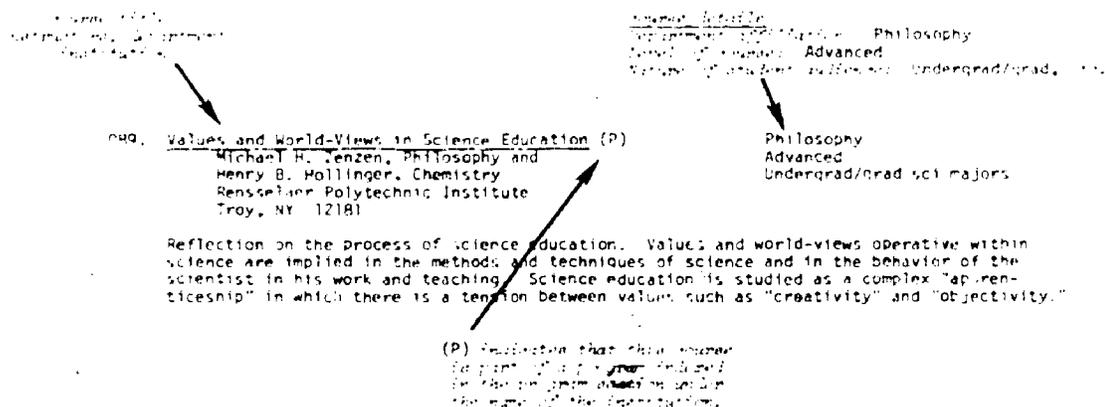


Figure 2

Programs and programs related to EVIST comprise the third section of the directory. They are listed alphabetically by course title or program name under each section in the topical outline on page 183. Program names are underscored to distinguish them from courses. For programs, the program director's name and department and the institution are given; for courses, the department and institution are listed.

#### Acknowledgments

Several people contributed substantially to the compilation of this directory. My gratitude goes to each of them.

To Mary J. Brogan and C. Richard Gibson for their perceptive analyses of the many responses to the questionnaire, especially during the process of indexing the courses and programs. To Anne Swartz for her creative ideas in the development of the topical outlines, her endless typing and editorial duties, and her ever-watchful proofreader's eye. To Rosita Price for her patient assistance in preparing and proofreading the manuscript. To Catherine Cleare for her valuable comments early in the project. To Orin McCarley for her usual masterful editorial direction and guidance. And to Arthur Livermore for his overall guidance and direction throughout the project.

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March 1978

Joseph M. Dasbach  
AAAS, Office of Science Education

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1. Subcommittee on Science, Research, and Development of the Committee on Science and Astronautics, U.S. House of Representatives, Teaching and Research in the Field of Science Policy --A Survey (Washington: U.S. Government Printing Office, 1973).
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3. Ezra D. Heitowit and Janet Epstein. Listing of Courses and Programs in the Field of Ethical and Human Value Implications of Science and Technology. Program on Science, Technology, and Society, Cornell University, January 1976. (Available from AAAS, 1776 Massachusetts Avenue, N.W., Washington, DC 20036.)
4. Ezra D. Heitowit, Janet Epstein, and Gerald Steinberg. Science, Technology, and Society: A Guide to the Field (Program on Science, Technology, and Society, Cornell University, Ithaca, NY 14853).
5. Ezra D. Heitowit. Science, Technology, and Society: A Survey and Analysis of Academic Activities in the U.S. (Program on Science, Technology, and Society, Cornell University, Ithaca, NY 14853).

## PROGRAMS WITH EVIST ORIENTATION

- SCIENCE, TECHNOLOGY, AND HUMAN VALUES
- BIOMEDICAL CONCERNS

## PROGRAMS WITH EVIST ORIENTATION

### SCIENCE, TECHNOLOGY, AND HUMAN VALUES

1. ALVERNO COLLEGE  
Milwaukee, WI 53215

Valuing in Decision-Making Division  
Director: Margaret Earley

Valuing in Decision-Making is one of eight outcomes explicitly defined and assessed in the Alverno learning process. It represents a systematic attempt to implement values education in the total college curriculum. Of six levels of student development in Valuing, level three explicitly focuses on the questions of technological change. Students examine how scientific developments influence the scope and consequences of responsible moral decision-making.

[Scope: R, D (instructional and resource materials, faculty development), T/C (courses, workshops). For undergrad, college faculty. Began 1973. Funded by college.]

2. BRANDEIS UNIVERSITY  
Waltham, MA 02154

Science, Society and Ethics  
Director: Prof. Schweber

Interdepartmental, consisting of lecture series about a value implication with science.

Course  
Science and Ethics, 338 (Sec. 1.05)

[Scope: T/C (colloquia, lecture series). For college faculty, undergrad, general public. Began 1975. Funded by university and private foundation.]

3. CARLETON COLLEGE  
Northfield, MN 55057

Science, Ethics and Public Policy  
Director: Ian G. Barbour

Offers a series of interdisciplinary seminars on policy issues involving science and technology. The seminars deal with: normative and technical aspects of science policy decisions; the environmental, social and human consequences of technology; and priorities and political processes in the assessment and control of technology. Occasional workshops or symposia.

Courses  
Environmental Ethics, 394 (Sec. 2.01)  
Moral Problems in Medicine, 674  
(Sec. 3.03)

[Scope: T/C (workshops, colloquia, seminars). For undergrad. Began 1974. Funded by college, private foundation, federal government.]

4. CARNEGIE-MELLON UNIVERSITY  
Pittsburgh, PA 15213

Technology and Humanities  
Director: Joe A. Tarr

Its mission is the development of interdisciplinary teaching and research in the area of technology and society. To accomplish this goal, it sponsors undergraduate interdisciplinary courses in the area of technology and society, graduate student research, seminar and lecture series, conferences, and visiting faculty.

[Scope: T/C (seminars, courses, lecture series). For college faculty, grad/undergrad, nonsci majors, engineering students. Began 1975. Funded by university and private foundation.]

5. CHICAGO CLUSTER OF THEOLOGICAL SCHOOLS  
4100 East 55th Street  
Chicago, IL 60647

Center for Advanced Study in Religion and  
Science (CASIRAS-CCTS-IRAS)  
Director: Ralph Wendell Burhoe

The Center is affiliated with ECTS in cooperation with the Institute on Religion in an Age of Science (IRAS). It deals with the examination and interpretation of religion in the light of the sciences. The teaching program is at the moment listed as one seminar per quarter. The 500 courses are mostly attended by faculty.

Course:  
Advanced Seminar in Theology and the  
Sciences, 264 (Sec. 1.03)

[Scope: R, D, T/C (seminars, workshops, colloquia, courses, lecture series, publications). For college faculty, grad, general public, med students, sci/nonsci majors. Began 1954. Funded mainly by voluntary activity (a few small grants and private gifts).]

6. CHRISTOPHER NEWPORT COLLEGE and the  
COLLEGE OF WILLIAM AND MARY  
Newport News, VA 23606

Center for Science and Ethics in Public Policy  
(Contact) Jane Webb

Programs have included workshops, symposia and seminars. Designed to teach techniques of formal descriptive ethics in order to analyze issues in public policy.

[Scope: D (instructional and resource materials), T/C (seminars, workshops). For the general public. Began 1973. Funded by college, federal government.]

7. CLARK UNIVERSITY  
Worcester, MA 01610

Science, Technology, and Society (STS)  
Director: Christoph Hohenemser

An interdepartmental program concerned with the evaluation of science and technology in a societal context. Courses are problem-oriented and multi-disciplinary, and form useful electives for students from many fields. May be taken as a major, preparing graduates for jobs in areas of energy policy, resource management, and environmental science.

[Scope: R, T/C (seminars, courses, workshops). For undergrad, sci/nonsci majors. Began 1973. Funded by university, private foundation, federal government.]

8. CLARKSON COLLEGE OF TECHNOLOGY  
Potsdam, NY 13676

Concentration in Human Values in Technology  
Director: Jerry Gravander, Humanities

A multi-disciplinary and interdepartmental teaching program which focuses on the interrelations of technology, society and human values. The core technology assessment course is interdisciplinary. The concentration's objective is to prepare science, engineering and management students to deal with the value issues of their professional practice.

Courses  
Human Values in Technology, 016  
(Sec. 1.01)  
Science Fiction, 241 (Sec. 1.02)  
Perspectives on Technology Assessment,  
912 (Sec. 5.04)

[Scope: T/C (workshops). For undergrad, sci, engineering and management majors. Began 1976. Funded by college.]

9. CORNELL UNIVERSITY  
Ithaca, NY 14853

Science, Technology, and Society  
Director: Raymond Bowers

As well as other areas, STS is involved with courses, undergraduate major in Biology and Society, graduate Field of Public Policy, research topics including biomedical and environmental ethics, science and technology policy and the sociology of science:

- Courses  
 Environmental Ethics, 396 (Sec. 2.01)  
 Religion, Ethics, and the Environment, 438 (Sec. 2.01)  
 Seminar in Environmental Values, 442 (Sec. 2.01)  
 Law and Medicine, 518 (Sec. 3.02)  
 Biomedical Ethics, 580 (Sec. 3.03)  
 Politics of Technical Decisions, 897 (Sec. 5.02)

[Scope: R, D (instructional and research materials, bibliographies), T/C (seminars, workshops, colloquia, courses, lectures, debates, film series). For college faculty, grad/undergrad, law students, general public. Began 1969. Funded by university, private foundation, industry, federal government.]

10. DARTMOUTH COLLEGE  
Hanover, NH 03755

System Dynamics and Design and Research Program in Technology and Public Policy  
Director: Dennis L. Meadows, Thayer School of Engineering

Designed to provide professional expertise in the use of System Dynamics and related Social System Analysis techniques. While methodological studies are conducted within the group, the emphasis of the faculty's research and of the formal course work is upon the identification, analysis and solution of specific socio-technical problems.

[Scope: R, D (instructional and research materials, bibliographies, T/C (workshops, courses). For grad/undergrad. Began 1972. Funded by college, private foundations, federal government.]

11. FRANKLIN AND MARSHALL COLLEGE  
Lancaster, PA 17604

History and Philosophy of Science (HAPOS)  
Director: Leslie J. Burlingame

The general purpose is to sensitize students and faculty to relationships between science and society and help close the gap between Snow's two cultures. Some courses are traditional history or philosophy of science but also stress interactions of science-society-values.

- Courses  
 Problems in the History and Philosophy of Science, 036 (Sec. 1.01)  
 Utopias and the Idea of Progress, 084 (Sec. 1.01)

[Scope: T/C (courses, lecture series). For undergrad, med students, sci/nonsci majors. Began 1976-77. Funded by private foundations.]

12. FRANKLIN PIERCE LAW CENTER  
Concord, NH 03301

Law-Science Program  
Director: Robert Rines

There are four well integrated components: (1) courses and seminars in which the legal implications of science and technology figure prominently; (2) a considerable range of clinical and internship opportunities; (3) nontraditional and interdisciplinary research activities in which students may participate; (4) conferences in which Law Center students may attend and participate.

- Course  
 Federal Regulation of Science and Technology, 897 (Sec. 5.02)

[R, D (instructional and resource materials, bibliographies), T/C (seminars, workshops, colloquia, courses, lecture series, debates, conferences). For faculty, grad, law students, general public. Began 1973. Funded by college, private foundation, industry, federal government.]

13. GRAND CANYON COLLEGE  
Phoenix, AZ 85017

Science-Religion Departmental Seminar  
Director: Erdie Morris

Discussions on pre-determined topics related to science-religion-ethics and attitudes.

[Scope: T/C (seminars, colloquia, lectures, debates). For college faculty. Began 1971. Funded by college, private foundation.]

14. ILLINOIS INSTITUTE OF TECHNOLOGY  
Chicago, IL 60616

Center for the Study of Ethics in the Professions (CSEP)  
Director: Ernest d'Anjou (Project Manager)

Primary goals are to encourage research in the areas of ethics and professionalism, to build a major resource collection in this area, and develop curriculum materials. Also, to establish relationships among faculty, students and business and professional groups, and to serve as a clearinghouse for information on professional ethics.

Courses  
Moral Issues in Engineering, 355 (Sec. 1.05)

[Scope: R, D (instructional and resource materials, bibliographies), T/C (colloquia, courses, lecture series). For college faculty, grad/undergrad, law students, sci/nonsci majors, general public, professional organizations, scholars from other institutions. Began 1976. Funded by anonymous restricted gifts.]

15. INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE)  
345 East 47th Street  
New York, NY 10017

Committee on Social Implications of Technology (CSIT)  
Director: J. Malvern Benjamin

CSIT is a committee of the Technical Activities Board of IEEE. It publishes a quarterly dealing with the technology-society interface, professional ethics and responsibility. It has cosponsored meetings, organized panels at general IEEE meetings, interacted with other IEEE groups on relevant questions (IEEE Engery Committee, U.S. Activities Board).

Courses  
Seminar on Professional Ethics in Engineering, 359 (Sec. 1.05)  
Technology and Society, 363 (Sec. 1.05)

[Scope: D (studies, proposals, critiques of IEEE activities), T/C (workshops, lecture series, publication of quarterly). For IEEE membership and some engineering students. Began 1971. Funded by IEEE general funds.]

16. IOWA STATE UNIVERSITY  
Ames, IA 50011

Technology and Social Change  
Director: A. A. Fouad

To create an awareness among faculty and students of the interrelationships between science and technology on the one hand and social change on the other; to initiate academic activities to explore these interrelationships.

Courses  
Seminar in Technology and Social Change, 197 (Sec. 1.01).  
Technology and Social Change in Foreign Cultures, 200 (Sec. 1.01)  
Technology: International, Social and Human Aspects, 202 (Sec. 1.01)  
Technology Transfer: Issues and Problems, 203 (Sec. 1.01)

[Scope: D (instructional and resource materials, bibliographies); T/C (seminars, workshops, courses, lectures). For grad/undergrad. Began 1972. Funded by university.]

17. LEHIGH UNIVERSITY  
Bethlehem, PA 18015

Humanities Perspectives on Technology (HPT)  
Director: Edward J. Gallagher

A broadly-based effort on the part of the faculty of the College of Arts and Science to foster undergraduate courses concerned with interrelationships among values, the quality of human life, and technological advances. Originally funded under a five-year grant from NEH, the program has created an undergraduate minor in Technology and Human Values by developing and drawing upon courses offered by numerous departments.

Courses  
Technology and Human Values, 256  
(Sec. 1.02)  
Professional Development, 356 (Sec.  
1.05)

[Scope: D (instructional and resource materials, bibliographies, curriculum development), T/C (seminars, workshops, colloquia, courses, lecture series). For undergrad. Began 1972. Funded by federal government.]

18. LYNCHBURG COLLEGE  
Lynchburg, VA 24501

Science, Technology and Human Values  
Director: Robert L. Frey

One of several programs composed of a sequence of courses which are designed to meet the general education requirements of undergraduates. Each theme is cross-disciplinary and focuses on problems, areas and fields not covered by a major program. Each theme aims primarily for breadth and integration.

Course  
Introduction to Philosophy, 022 (Sec.  
1.01)

[Scope: T/C (seminars, colloquia, courses, lecture series). For undergrad, sci/nonsci majors. Began 1974. Funded by college.]

19. MASSACHUSETTS INSTITUTE OF TECHNOLOGY  
Cambridge, MA 02139

Technology Studies Program  
Director: L. Bucciarelli

Deals with the humanistic, historical, sociological, philosophical aspects of science, technology and society.

Courses  
Understanding the Discovery Process--An  
Historical Approach, 327 (Sec. 1.04)  
Medicine and Its Critics: A Study of  
Medical Practices as a Paradigm for  
Expert-Client Relations, 334 (Sec. 1.05)  
Professions, 337 (Sec. 1.05)  
Ethical Issues in Science and Engineering,  
351 (Sec. 1.05)  
Value, Choice and Risk in Modern  
Technology, 887 (Sec. 5.01)  
Arms, Power and the Engineer, 906 (Sec.  
5.03)  
Seminar in Public Interest Science, 908  
(Sec. 5.03)

[Scope: R, D (instructional, resource materials) T/C (seminars, workshops, colloquia, courses, lecture series). For grad/undergrad, sci, engineering majors. Began 1974. Funded by university, federal government.]

20. MASSACHUSETTS INSTITUTE OF TECHNOLOGY  
Cambridge, MA 02139

Technology and Policy Program  
Director: Richard de Neufville, Engineering

Promotes careers in the development and implementation of policies for the productive use and control of technology. It is unique in the possibilities it affords for pursuing an educational program in this area from a strong basis in engineering and science. Students may work on problems of interest in any of the fields of technology. These cover a wide range, reflecting the concerns of faculty and staff at M.I.T.

Course  
Technology and Policy Proseminars,  
885 (Sec. 5.01)

[Scope: T/C (seminars, courses, lecture series). For grad, engineering majors. Began 1975. Funded by university, private foundations.]

21. MICHIGAN STATE UNIVERSITY  
East Lansing, MI 48824
- Group for the Analysis and Assessment of Technology (GAAT)  
Director: Donald J. Montgomery
- Analysis of current and proposed technological undertakings in order to assess societal impacts over all human goals, in the long range as well as the short range.
- [Scope: R, T/C (seminars, colloquia, courses). For college faculty, undergrad. Began 1971. Funded by university.]
22. NEW MEXICO STATE UNIVERSITY  
University Park, NM 88003
- Social Implications of Computers  
Director: J. Mack Adams, Computer Science
- De]ves into computers and society, privacy, freedom, control of citizens, control of information, security, human rights, human values.
- Courses  
Computers: Appreciation, Applications, Implications, 835 (Sec. 4.02)  
Social Implications of Computers, 845 (Sec. 4.02)
- [Scope: D (instructional materials, bibliographies), T/C (courses, innovative interdepartmental courses and colloquia). For grad/undergrad. Funded by university.]
23. NORTH DAKOTA STATE UNIVERSITY  
Fargo, ND 58102
- Center for Environmental Studies  
Director: Harold Goetz
- North Dakota State University, Moorhead State College and Concordia College (MSC and CC in Minnesota) form the Tri-College Center for Environmental Studies. The major purpose for its creation was the recognition by the three college faculties for the need for a coordinated effort to bring about a meaningful development of environmental education programs. Some courses offered are: Man in the Ecosystem, Resources of the World, Technology and the Environment, Environmental Ethics, Socioeconomics of the Environment, Environmental Decision Making, and Applied Environmental Analysis.
- [Scope: R, T/C (workshops, courses, lectures). For nonsci majors. Began 1971. Funded by university.]
24. NORTHLAND COLLEGE  
Ashland, WI 54806
- Sigurd Olson Institute of Environmental Studies (SOIES)  
Director: Bob Brander
- The Institute works simultaneously at three levels--with regional and international planners to help them understand the values of the Lake Superior peoples; with people in the Lake Superior region to help them better understand the natural, social, political and economic web that confronts the planner; and with the Northland College community.
- Courses  
Man in Nature and Man and Nature in Literature, 230 (Sec. 1.02)  
The Nature of Man and His Physical Environment, 234 (Sec. 1.02)
- [Scope: T/C (seminars, workshops, courses, lecture series). For college faculty, undergrad, sci/nonsci majors, general public. Began 1971. Funded by private foundations and donations, state and federal government.]
25. OHIO UNIVERSITY  
Athens, OH 45701
- Center for the Study of Human Values  
Director: L. A. Larson
- Will provide an administrative base from which to work on investigating, elucidating, and communicating issues that could constitute a threat to human values.
- Courses  
Bioethics, 560 (Sec. 3.03)  
Bioethics, Biology and Future of Man, 710 (Sec. 3.03)
- [Scope: D (instructional materials), T/C (seminars, workshops, colloquia, courses, lectures). For faculty, undergrad, nonsci majors, general public. Began 1977. Funded by government.]

26. OKLAHOMA STATE UNIVERSITY  
Stillwater, OK 74074

Moral Dilemmas of University Scientists Preparing Environmental Impact Statements  
Director: Gordon Matzke, Geography

An interdisciplinary (nine disciplines) research project which is examining three case studies. It is attempting to isolate the particular value issues raised by the involvement of university scientists in the impact statement preparation process.

[Scope: R. For college faculty. Began 1976. Funded by federal government.]

27. PENNSYLVANIA STATE UNIVERSITY  
University Park, PA 16802

Science, Technology and Society  
Director: Robert J. Heinsohn

Program critically examines the impact of scientific investigation and technological development on society's values, priorities, and institutions, and alternatively, the influence human needs have upon science and technology.

Course  
Technological Change and Human Values,  
065 (Sec. 1.01)

[Scope: D (instructional materials, media courses), T/C (seminars, lecture series, courses, colloquia). For college faculty, grad/undergrad, nonsci majors, general public. Funded by university.]

28. PURDUE UNIVERSITY  
West Lafayette, IN 47907

Science, Technology and Public Policy (STPP)  
Director: Joseph Haberer

Teaching and research on the relationship between science, technology and society, particularly as it relates to its political and public policy interface. Among the areas covered are: science and government; technology and society, science, values and the humanities; the economics, funding and organization of science at various levels; regional and international aspects of science and technology policy; technology forecasting and assessment. Also included would be teaching and research in special sub-areas such as marine and ocean policy, environmental and resource policy, energy policy, bio-politics.

Courses  
Man and His Environment  
Politics of the Scientific Professions  
Science and the City  
Politics of Change, 867 (Sec. 5.01)  
Science and Government, 871 (Sec. 5.01)  
Science, Technology and Public Policy,  
876 (Sec. 5.01)

[Scope: D (resource materials, bibliographies), T/C (courses, lecture series, newsletter). For college faculty, grad/undergrad. Began 1963.]

29. RAMAPO COLLEGE  
Mahwah, NJ 07430

Science in Cultural Perspective (SCP)  
Director: Bernard Langer, School of Theoretical and Applied Science

Deals with contemporary issues associated with science as a social and cultural institution. Many courses offered.

[Scope: T/C (seminars, colloquia, courses, lecture series). For college faculty, undergrad, sci/nonsci majors. Began 1974. Funded by college.]

30. RENSSELAER POLYTECHNIC INSTITUTE  
Troy, NY 12181

Center for the Study of the Human Dimensions of  
Science and Technology  
Director: Robert J. Baum

Human Dimensions Center conducts teaching and research on the interactions between human societies and science and technology. The program maintains a careful balance between humanities and social science perspectives. Emphasis is on the value systems of scientific communities and of the societies in which they function, and on the mutual interactions among social, political, and economic factors and science and technology. Current research includes: relations between science and religion; development of alternative future religions; relations between values and technology in India; engineering and professional ethics; utopian thought and technology; and technology assessment.

Courses

Science, Technology and Values,  
059 (Sec. 1.01)  
Values and World Views in Science  
Education, 089 (Sec. 1.01)  
Transnational Values and Technology,  
205 (Sec. 1.01)  
Science Fiction: The Humanistic Base,  
244 (Sec. 1.02)  
Professional Ethics, 335 (Sec. 1.05)  
Science, Engineering and Society,  
358 (Sec. 1.05)  
Human Dimensions of Biomedical  
Innovations, 487 (Sec. 3.01)  
Life, Death and Human Experimentation,  
632 (Sec. 3.03)  
Man, Nature, and Industry in America,  
815 (Sec. 4)  
Science, Technology and Public Policy,  
877 (Sec. 5.01)  
Technology Assessment, 915 (Sec. 5.04)

[Scope: R, D (instructional and resource materials, bibliographies), T/C (seminars, workshops, colloquia, courses, lecture series, minor and MS programs). For college faculty, grad/undergrad, sci majors, general public. Began 1974. Funded by institute, private foundation, federal government.]

31. ROSE-HULMAN INSTITUTE OF TECHNOLOGY  
5500 Wabash Avenue  
Terre Haute, IN 47803

Center for Technology Assessment and Policy  
Studies (CTAPS)  
Director: A. T. Roper

Goals are to: (1) Introduce students and faculty to concepts of technology assessment, (2) stimulate dialogue between technologists and humanists by demonstrating the necessity for cooperative efforts in the analysis and solution of societal problems, and (3) develop an awareness among undergraduates of the inextricable interdependence of science, technology and human values.

[Scope: R, D (instructional materials), T/C (seminars, workshops, courses). For undergrad, industrial personnel. Began 1973. Funded by private foundations.]

32. ST. OLAF COLLEGE  
Northfield, MN 55057

Technology, Values and Social Change  
Director: George Heiling

Three phase program centered in behavioral science departments: (i) Research and writing in problem areas by interdisciplinary task forces of faculty, (2) an interim using that preparation in special courses, (3) a two-day symposium disseminating information and raising concern for faculty from nearby institutions.

[Scope: R, T/C (workshops, colloquia, courses, lecture series). For college faculty, undergrad, sci majors. Funded by college, federal government.]

33. SAN FRANCISCO STATE UNIVERSITY  
San Francisco, CA 94132

Science and Humanities: A Program for  
Convergence (NEXA Curriculum)  
Director: Michael S. Gregory, Humanities

NEXA seeks to bring humanities and science to a common historical focus, and to discover underlying continuities of value uniting the two domains. NEXA will eventually comprise 18 team-taught courses, involving scientists and humanists, and will constitute its own liberal arts curriculum. NEXA major and minor are available.

Courses

Cosmologies and World Views, 124  
(Sec. 1.01)  
The Newtonian Revolution, 134 (Sec.  
1.01)  
Split Brain/Split Culture? 139  
(Sec. 1.01)  
The Einsteinian Revolution, 211  
(Sec. 1.02)  
Literature, Arts and Physics, 225  
(Sec. 1.02)  
Man as Machine, 228 (Sec. 1.02)  
Mythic and Scientific Thought, 302  
(Sec. 1.04)

[Scope: D (instructional and resource materials, bibliographies, dissemination), I/C (seminars, workshops, colloquia, courses, lecture series, debates, national symposia). For college faculty, sci/nonsci majors, law and med students, general public, humanities and arts students. Began 1975. Funded by federal government.]

34. SOUTHERN ILLINOIS UNIVERSITY  
Carbondale, IL 62901

Applied Personal and Social Values  
Director: George McClure

A three-part program to acquaint faculty with value problems and decisions in medical, legal and communication areas; to prepare and teach three undergraduate courses relating humanities to careers via the value decisions involved, and a seminar for graduate students. Concerns theory and practice in the humanities, especially value judgment and criticism areas.

[Scope: D (instructional and resource materials, local professionals to help teach), T/C (seminars, workshops, courses). For undergrad.]

35. STANFORD UNIVERSITY  
Stanford, CA 94305

Values, Technology and Society (VTS)  
Director: Nathan Rosenberg

Studies ways in which technology affects and is affected by human values and social institutions in the contemporary world.

Human Values and Technological Society,  
014 (Sec. 1.01)  
Contemporary Technological Society, 095  
(Sec. 1.01)  
Technology and Musical Expression, 257  
(Sec. 1.02)  
Secularization, 292 (Sec. 1.03)  
Philosophy of Technology, 317 (Sec. 1.04)  
Energy and Society, 454 (Sec. 2.02)  
Technology and Work, 825 (Sec. 4.01)  
Information: The Communications Revolution  
in Contemporary Society, 852 (Sec.  
4.03)

[Scope: R, T/C (courses). For grad/undergrad, college faculty. Began 1971. Funded by university.]

36. STATE UNIVERSITY OF NEW YORK  
Stony Brook, NY 11794
- Science, Technology and Society (Federated Learning Communities)  
Director: Patrick Hill

An interdisciplinary program concentrating on the ethical, social and value impact of science and technology. Taught by faculty of six disciplines with an integrated curriculum.

[Scope: T/C (seminars, courses, tutorials).  
For college faculty, grad/undergrad. Began 1978.]

37. SUNY COLLEGE AT FREDONIA  
Fredonia, NY 14063
- International Dimensions of General Education  
Director: William Muller, Political Science

An attempt to sensitize students to ethics and values in science and technology in foreign cultures and environments.

Courses  
Values in a Technological Society,  
090 (Sec. 1.01)  
Medical Ethics, 652 (Sec. 3.03)  
Administrative Ethics, 800 (Sec. 4.01)

[Scope: D (instruction and resource materials),  
T/C (seminars, lecture series, films). For  
college faculty grad/undergrad, sci/nonsci  
students, general public. Began 1975. Funded  
by federal government.]

38. UNIVERSITY OF CALIFORNIA  
Irvine, CA 92717
- Social Impacts of Computing  
Director: Rob Kling, Information and Computer Science

A Ph.D. program within Computer Science that enables students to study and research the social impacts of computer technology.

Courses  
Social Context of Computing, 844  
(Sec. 4.02)  
Social Issues and Impacts on Computing,  
847 (Sec. 4.02)

[Scope: R, T/C (seminars, courses, research).  
For grads. Began 1974. Funded by university.]

39. UNIVERSITY OF CALIFORNIA, SAN DIEGO  
La Jolla, CA 92093
- Science, Technology and Public Affairs  
Director: Herbert F. York

Study of the important social policy issues that lie at the intersection of science, technology and decision-making; social and political factors that condition technological and scientific development as well as impact of science and technology on the social order.

Courses  
Technology and Human Values, 072 (Sec.  
1.01)  
Technology, Ecology, Morality, 077  
(Sec. 1.01)  
Senior Seminar in Science and Public  
Policy, 879 (Sec. 5.01)  
Technology and Society, 886 (Sec.  
5.01)  
Arms and Arms Control, 889 (Sec. 5.02)

[Scope: R, T/C (seminars, courses). For grad/  
undergrad, sci/nonsci majors. Began 1974.  
Funded by university, private foundation.]

40. UNIVERSITY OF FLORIDA  
Gainesville, FL 32610
- Humanities Perspectives on the Professions  
Directors: Gareth Schmeling and Ronald Carson,  
Center for Studies in the Humanities
- Designed to bring perspectives from the traditional humanities to bear on the pre-professional education of students in medicine, law, engineering, business; issues considered are ethics, values, accountability, responsibility, rights, professional identity.
- [Scope: D (resource materials, faculty development, T/C (seminars, courses). For undergrad. Began 1975. Funded by university, private foundation, federal government.]
41. UNIVERSITY OF HOUSTON  
Houston, TX 77004
- M.A. in Public Administration (MAPA)  
Director: Paul J. Culhane, Political Science
- One of the policy specialties (i.e., majors) within the MAPA program is Natural Resources Management. The policy issues of environmental management are all fundamentally ethical-value questions about the effects of science and technology.
- [Scope: T/C (courses). For grad, nonsci majors. Began 1975. Funded by university.]
42. UNIVERSITY OF MICHIGAN  
Ann Arbor, MI 48109
- Humanities Department Lecture Series on Current Issues  
Director: T. M. Sawyer (for 1977-78 series),  
Department of Humanities
- A continuing series of lectures and public seminars dealing with the impact of technological development upon human values, and of society and values upon technological development. Objective is to stimulate debate on specific problems fundamental to society as a whole and to educational institutions.
- [Scope: T/C (lecture series). For college faculty, grad/undergrad, general public. Began 1974. Funded by university.]
43. UNIVERSITY OF MICHIGAN  
Ann Arbor, MI 48109
- Science, Technology and Future Societies (STAFS)  
Director: J. Mathes, Humanities, et al
- This program, in the Department of Humanities, provides a mechanism for University of Michigan faculty and guest faculty to interact across disciplinary boundaries. This enables individual and cooperative basic research to be conducted in interdisciplinary science, technology, society, and values areas.
- Courses  
Alternative Futures, 175 (Sec. 1.01)  
Alternative Futures, 176 (Sec. 1.01)  
Quest for Utopia, 239 (Sec. 1.02)  
Science Fiction, 243 (Sec. 1.02)
- [Scope: R, D (program design), T/C (colloquia). For college faculty. Began 1972. Funded by university.]
44. UNIVERSITY OF MISSOURI  
Rolla, MO 65401
- Social Factors in Technology  
Director: H. J. Eisenman, Social Science
- Attempt to bring together students and faculty from the social sciences and engineering areas to determine through teaching and research efforts the interrelationships between science and technology.
- Course  
Science in American Society, 902  
(Sec. 5.02)
- [Scope: T/C (courses). For undergrad. Began 1976-77. Funded by university.]

45. UNIVERSITY OF NORTH CAROLINA  
Charlotte, NC 28223

Liberal Engineering  
Director: R. J. Coleman, Engineering

To respond to the concern of students not majoring in engineering, about important social and environmental problems resulting from present and future changes in technology.

[Scope: T/C (courses, lecture series). For undergrad, nonsci majors. Began 1971. Funded by university.]

46. UNIVERSITY OF NOTRE DAME  
Notre Dame, IN 46556

Values in the Electric Power Industry  
Director: Kenneth M. Sayre, Philosophic Inst.

Analysis of decision-procedures in electric power industry, with focus on role of social and environmental values therein.

[Scope: R. For college faculty, general public, power industry executives. Began 1973. Funded by federal government.]

47. UNIVERSITY OF OKLAHOMA  
Norman, OK 73019

Judeo-Christian Ethics and Contemporary Issues in Science  
Director: Tom. W. Boyd, Philosophy

Predicated on an analysis of current debate on Jewish and Christian ethics, the course turns to current issues in science. The questions raised have to do with how science impacts religiously based ethics and how those ethics may inform scientific issues.

Courses  
Science and Ethics, 040 (Sec. 1.01)  
Science and Human Values, 047 (Sec. 1.01)  
Technology and Virtue, 142 (Sec. 1.01)  
Technology and Human Values, 445 (Sec. 2.01)  
Medical and Business Ethics, 542 (Sec. 3.03)

[Scope: T/C (seminars, lecture series). For undergrad, nonsci majors. Began 1973. Funded by university.]

48. UNIVERSITY OF OKLAHOMA  
Norman, OK 73019

Science and Public Policy  
Director: Don E. Kash

This program was established for the purpose of conducting interdisciplinary technology assessments. There are presently nine research fellows representing the disciplines of political science, geography, economics, biology, and engineering each of whom has a joint appointment with this program and an academic department. Four major research projects have been completed.

[Scope: R, D (resource materials, bibliography), T/C (courses). For college faculty, grad/undergrad. Began 1970. Funded by university, federal government.]

49. UNIVERSITY OF THE PACIFIC  
Stockton, CA 95211

Technology and Society  
Director: Robert R. Orpinela, Raymond College

An assessment of the social and value implications of technology.

Courses  
Values and Natural Science, 144 (Sec. 1.01)  
Social Science, Ethics, and Policy, 880 (Sec. 5.01)

[Scope: T/C (seminars, workshops, internships, courses). For undergrad, sci/nonsci majors, law students. Began 1977. Funded by university.]

50. UNIVERSITY OF SAN FRANCISCO  
San Francisco, CA 94117
- Natural Sciences Interdisciplinary Program  
Director: Raymond Genolio, Harney Science Center
- Explores interaction between ideas of science, human values, and cultural impact. Achieves an understanding of science in its own integrity, processes of creativity, and relation to human goals. Examines science and technology and their social implications.
- Course  
Technology Culture and the Human Prospect, 191 (Sec. 1.01)
- [Scope: T/C (courses). For undergrad, sci/nonsci majors. Began 1968. Funded by university, federal government. For undergrad.]
51. UNIVERSITY OF WASHINGTON  
Seattle, WA 98195
- Social Management of Technology  
Director: Edward Wenk, Jr.
- The program was founded as a problem-oriented, intercollege, interdisciplinary effort, focused on technology-intensive public policy. Its establishment is focused on: (1) a need for enhanced technological literacy among those living in a modern industrial society; and (2) a need for an increased awareness among scientists and engineers of social processes and cultural values that must be considered in technology application.
- [Scope: R, T/C (seminars, lecture series, courses, workshops). For grad/undergrad. Began 1973. Funded by university, private foundation, federal government.]
52. UNIVERSITY OF WISCONSIN  
Green Bay, WI 54302
- Freshman University Seminars Program (USP)  
Director: Julie Brickley
- Part of the core program required for all undergraduates. Students choose four seven-week modules taught by faculty members from all areas of the university. The emphasis in each module is on the values which are both implicit and explicit in the solution of a particular contemporary problem.
- Courses  
Social Consequences of Human Evolution, 443 (Sec. 2.01).  
Resource Utilization and the American Character, 473 (Sec. 2.02)  
Technology and Human Values, 738 (Sec. 3.03)  
Technology and Human Values, 904 (Sec. 5.02)
- [Scope: T/C (seminars, workshops, debates). For undergrad, nonsci majors. Began 1969. Funded by university.]
53. UNIVERSITY OF WISCONSIN  
Green Bay, WI 54302
- Humanism and Cultural Change (HCC)  
Director: Irwin Sonenfield
- Involves an interdisciplinary faculty dealing, at the introductory level, with the general scope of humanistic ideas and achievements. At the upper level, there are two basic areas: humanistic ideas and achievements in historical perspective and through critical studies, and also humanistic ideas and achievements related to specific individual, cultural and social problems.
- Course  
Foundations of Knowledge in the Cultural and Natural Sciences, 212 (Sec. 1.02)
- [Scope: T/C (colloquia, courses). For undergrad nonsci majors. Began 1969. Funded by university.]

54. UNIVERSITY OF WISCONSIN  
Green Bay, WI 54302

Senior University Seminars  
Director: Lawrence Chenoweth

Interdisciplinary program consisting of seminars analyzing enduring problems of self and society as they relate to contemporary ecological, cultural, ethical, scientific and political concerns. Program emphasizes complexity of such concerns and alternatives to contemporary problems. All university requirement for seniors.

Courses

The Scientist and Social Responsibility, 341 (Sec. 1.05) [Scope: T/C (seminars). For undergrad. Began 1969. Funded by university.]  
Culture, Life Style and Science in a No-Growth World, 450 (Sec. 2.02)  
Overcoming World Hunger--Policies and Strategies for Action, 468 (Sec. 2.02)

55. UNIVERSITY OF WISCONSIN  
Madison, WI 53706

Institute for Environmental Studies (IES)  
Director: Reid Bryson

An interdisciplinary unit that combines a rigorous environmental curriculum with a comprehensive research program. IES's Instructional Program offers courses and administers graduate degree programs in Land Resources, Oceanography and Limnology, Environmental Monitoring, and Water Resources Management.

Courses

Environmental Ethics, 401 (Sec. 2.01) [Scope: R, D (instruction and resource material, bibliographies), T/C (seminars, workshops, colloquia, courses, lecture series). For college faculty, grad/undergrad, sci/nonsci majors. Began 1970. Funded by private foundation, industry, state and federal government.]  
Environmental Studies: The Humanistic Perspective, 411 (Sec. 2.01)  
Man in the American Environment, 429 (Sec. 2.01)  
Science and Government, 900 (Sec. 5.02)

56. UNIVERSITY OF WISCONSIN  
Madison, WI 53706

Man, Technology and Society  
Director: Edward E. Daub, Engineering

Program develops courses which relate engineering to the social sciences and humanities. The courses give the engineering student an opportunity to gain a perspective on technology through liberal studies courses. They also provide the nonengineer the opportunity to understand the role of technology.

Courses

Technology, Values and Changing Life-Styles, 079 (Sec. 1.01) [Scope: T/C (courses). For undergrad, sci/nonsci majors. Began 1973. Funded by university.]  
Ideas of Race in Science and Society, 131 (Sec. 1.01)  
History of the American Engineer, 163 (Sec. 1.01)  
Technology and Public Policy in Developing Countries, 199 (Sec. 1.01)  
Interpretations of Technology in Literature, 217 (Sec. 1.02)  
Issues in the History of Science and Theology, 272 (Sec. 1.03)

57. UNIVERSITY OF WISCONSIN  
Milwaukee, WI 53201

Cultural and Technological Studies (CTS)  
Director: Raymond H. Merritt

The purpose of CTS is to understand the relationship between technology and culture and how this interaction affects human values and can be better utilized to fulfill human needs. There is no major or minor in CTS, although all 40 courses satisfy social science and humanities requirements. Periodic lectures, seminars, and conferences are sponsored by CTS.

Courses

- Technology, Values and Society, 080 (Sec. 1.01)
- Frankenstein Revisited: Bioethics and the Future of Man, 154 (Sec. 1.01)
- Men and Machines in American Technology, 166 (Sec. 1.01)
- Social History of American Technology to the Civil War, 172 (Sec. 1.01)
- The City in The World of the Future, 179 (Sec. 1.01)
- Cultural Systems, Energy and Technology, 195 (Sec. 1.01)
- Technological Innovation and Social Change, 198 (Sec. 1.01)
- Human Factors and Aesthetics in Design and Technology, 213 (Sec. 1.02)
- Literature and Society: Clockwork Man-- The Technology of Transcendence, 221 (Sec. 1.02)
- Literature and Society: Literature and Ecology, 222 (Sec. 1.02)
- Literature and Society: The Healing Art: Patient, Physician and the Technological Fix, 223 (Sec. 1.02)
- Literature, Art and Technology, 224 (Sec. 1.02)
- Machines Versus Humanity: The Changing Novel in the Age of Technology, 226 (Sec. 1.02)
- Mass Culture, Technology and Manipulation of Consciousness, 231 (Sec. 1.02)
- The Promethean Mind: Explorations in Myth and Literature, Science and Technology, Prophecy and Human Values, 238 (Sec. 1.02)
- Technology and the American Dream, 255 (Sec. 1.02)
- Technology in Utopian Literature and Science Fiction, 260 (Sec. 1.02)
- Science and Mysticism, 321 (Sec. 1.04)
- Man's Impact on the Natural Landscape: Geographical and Historical Perspectives, 431 (Sec. 2.01)
- Work and Alienation, 827 (Sec. 4.01)
- The Idea of Progress, 862 (Sec. 5.01)
- Topics in Technology and Cultural Institutions: Legal and Ethical Issues in Technology, 905 (Sec. 5.02)

[Scope: R, T/C (seminars, workshops, colloquia, courses). For college faculty, undergrad. Began 1973. Funded by university, private foundation, federal government.]



58. UNIVERSITY OF WISCONSIN  
Stevens Point, WI 54481

Science and Ethics

Director: Joseph B. Harris, Biology

Consists of (1) developing annual symposia on major science and ethics topics and inviting established professionals to speak, videotaping symposium lectures and (2) offering formal courses on science and ethics issues using videotaped and reference materials to university and public audiences.

Courses

Population, Human Behavior and Food,  
470 (Sec. 2.02)  
Legal Drugs: Use and Abuse, 490  
(Sec. 3.01)  
Genetic Manipulation of Man, 721  
(Sec. 3.03)

[Scope: D (instructional and resource materials, bibliographies), T/C (lecture series, courses). For college faculty, undergrad, general public. Began 1973. Funded by university, private foundation.]

59. UTAH STATE UNIVERSITY  
Logan, UT 84322

Values and the Environment

Director: Jim Mulder, Political Science

This course-program was started to provide a flexible, self-directed learning experience for students concerning man's relationships to his ideas, environment and other people. It was an interdisciplinary effort which contained individual study units and personal faculty interaction.

Course

Technology and Human Values, 074  
(Sec. 1.01)

[Scope: D (instructional materials), T/C (seminars, colloquia, courses, debates, individual self-paced modules). For grad/undergrad. Funded by federal government.]

60. VANDERBILT UNIVERSITY  
Nashville, TN 37235

Technology and Public Policy (TAPP)

Director: Robert W. House

Designed to serve as a focal point for the activities in the School of Engineering directly involved with technology-society interactions. Introductory and advanced courses offer an area of concentration for undergraduate students in engineering and in arts and science.

Courses

Technology and Human Values, 075  
(Sec. 1.01)  
Technology Forecasting and Assessment,  
919 (Sec. 5.04)

[Scope: R, D (case studies), T/C (seminars, workshops, courses, lecture series). For undergrad, engineering majors. Began 1972. Funded by university, private foundation, government grants.]

61. WASHINGTON AND LEE UNIVERSITY  
Lexington, VA 24450

Society and the Professions: Studies in Applied Ethics

Director: Louis W. Hodges

Designed to examine the relationship between individual professions and society. The focus is on the humanistic impact of the practice of the profession, through an examination of the value conflicts which arise in that practice.

Courses

Biomedical Ethics, 597 (Sec. 3.03)

[Scope: T/C (seminars, workshops, courses, lecture series). For undergrad. Began 1974. Funded by private foundation.]

62. WASHINGTON UNIVERSITY  
St. Louis, MO 63130
- Technology and Human Affairs (THA)  
Director: Robert P. Morgan
- Offers bachelors, masters and doctoral programs concerned with application of technology to contemporary problems, assessments of the impacts of technology and technology policy analysis.
- Courses  
Technology, Values and Society, 081 (Sec. 1.01)  
Technology, Survival and the Year 2000, 192 (Sec. 1.01)  
Role and Management of Modern Technology, 898 (Sec. 5.02)  
Technology Assessment and Public Policy, 916 (Sec. 5.04)
- [Scope: R, D (instructional and resource materials, bibliographies), T/C (seminars, courses, conferences). For grad/undergrad, sci/nonsci majors. Began 1968. Funded by university, private foundation, federal government.]
63. WAYNE STATE UNIVERSITY  
Detroit, MI 48202
- Socio-Humanistic Studies Program for Engineering Students  
Director: Charles K. Hyde, Monteith College
- An examination of the interface between technology, society, and human values, utilizing an interdisciplinary, cross-cultural approach, with both historical and contemporary emphases. The program includes a series of studies at both the macro- and micro-levels of analysis.
- Courses  
Social and Economic Contexts of Technology, 822 (Sec. 4.01)  
Topics in the Impact of Technology, 909 (Sec. 5.03)
- [Scope: D (instructional materials), T/C (courses). For undergrad, engineering students. Began 1974. Funded by university.]
64. WESLEYAN UNIVERSITY  
Middletown, CT 06457
- College of Science in Society (CSis)  
Director: D. Hanson
- A three-year program for undergraduates interested in understanding and working with issues arising from the interaction of scientific knowledge and human affairs.
- Course  
Science and Nonscience, 240 (Sec. 1.02)
- [Scope: T/C (seminars, workshops, colloquia, courses, lecture series, resident scholars). For undergrad. Began 1975. Funded by federal government.]
65. WHEATON COLLEGE  
Wheaton, IL 60187
- Human Needs and Global Resources (HNGR)  
Director: Wayne G. Bragg
- A multidisciplinary concentration (minor) that focuses on the great critical issues facing the world from an ethical perspective. Courses are given to prepare students to involve themselves directly in some development project in a Third World Country through an internship arrangement with various agencies.
- Courses  
Third World Issues, 204 (Sec. 1.01)  
Internship Seminar in the Health Professions, 792 (Sec. 3.03)
- [Scope: T/C (seminars, courses, annual conference). For undergrad, sci/nonsci majors. Began 1976. Funded by college.]

66. WORCESTER POLYTECHNIC INSTITUTE  
Worcester, MA 01609

Worcester Polytechnic Institute Plan (WPI)  
Director: George W. Hazzard

The WPI Plan is designed to educate engineers and scientists who are aware of the social implications of their work. There are four degree requirements in the WPI program: (1) a sufficiency or minor in some area of the humanities, (2) a major qualifying project--research work in one's major field of study, (3) an interactive qualifying project--a project which somehow relates technology to social concerns or values, and (4) successful completion of a competency examination in one's major field. The program is designed for maximum flexibility in order to meet individual student interests and needs.

Course  
Bioethics, 146 (Sec. 1.01)

[Scope: T/C (seminars, courses, project work).  
For undergrad, sci majors. Began 1970. Funded  
by private foundation, federal government.]

67. WORCESTER STATE COLLEGE  
Worcester, MA 01602

Worcester State College Science and the Human  
Condition Series  
Directors: Surindar Paracer and Ronald Harris

The objective is to communicate to the Worcester community the impact which developments in science (including the social sciences) and technology is having on their lives. In a given year the topics may range from behavior control to the problem of nuclear wastes.

[Scope: T/C (lecture series, debates). For  
college faculty, undergrad, sci/nonsci majors,  
general public. Began 1972. Funded by college.]

68. YALE LAW SCHOOL  
New Haven, CT 06520

Law, Science and Medicine  
Director: Angela Holder, et al

Research fellowships. Program terminates as it now exists on July 1, 1977. Future includes support of a few senior fellows who will teach part-time in the regular law school curriculum.

Courses  
Tragic Choices, 083 (Sec. 1.01)  
Law and the Life Sciences, 517  
(Sec. 3.02)  
Legal Regulation of Biomedical  
Sciences, 523 (Sec. 3.02)  
Chronically Ill Patient, 746  
(Sec. 3.03)

[Scope: R, T/C (seminars, lecture series). For  
law students. Began 1973. Funded by private  
foundation.]

## BIOMEDICAL CONCERNS

69. ALBERT EINSTEIN COLLEGE OF MEDICINE  
Bronx, NY 10461
- Perspectives in Biology and Medicine  
Director: Harry H. Gordon, M.D.
- Didactic and clinical instruction is given on ethical/humanistic approaches to patient care. This includes emphasis on the necessity of such instruction as a result of the development of large medical centers and technological developments.
- [Scope: T/C (seminars, workshops, colloquia, courses, lecture series, debates). For college faculty, med students. Began 1973. Funded by college.]
70. ATHENAEUM OF OHIO  
5440 Moeller Ave.  
Norwood, OH 45212
- Institute of Bioethics  
Director: Rev. Donald McCarty
- Lecture series on genetic counseling, prolongation of life, sterilization, ethical norms, behavior control. Includes 14 speakers in ethics and science.
- [Scope: T/C (seminars, lecture series). For grad/undergrad, sci/nonsci majors. Began 1977. Funded by university.]
71. BALDWIN-WALLACE COLLEGE  
Berea, OH 44017
- Center for Study of Ethical and Legal Issues in Bio-Medical and Behavioral Science (CELIBS)  
Director: David L. Treybig, Sociology
- Concerned with rights of human subjects in research, informed consent, disadvantaged research subjects, aged human subjects in gerontological research.
- [Scope: D (instructional materials, bibliographies), T/C (seminars, publications). For undergrad, med, sci majors, R.N.s, respiratory therapists. Began 1976. Funded by college.]
72. COLLEGE OF MEDICINE AND DENTISTRY OF NEW JERSEY - NEW JERSEY MEDICAL SCHOOL  
Newark, NJ 07103
- Programs in Health Care Humanities  
Director: Russell McIntyre
- Systematic analysis of ethical, social and legal issues which emerge in the practice of medicine, the provision of health care, and the research done on human subjects.
- Ethical Issues in Biomedicine, 752 (Sec. 3.03)
- [Scope: T/C (seminars, workshops, colloquia, courses, lecture series, debates). For med students, hospital house staff, practicing physicians in continuing education. Began 1976.]
73. COLUMBIA UNIVERSITY  
New York, NY 10032
- Health Sciences General Education Seminar on Ethics and Values in Health Care  
Director: Bernard Schoenberg, M.D.
- Working groups composed of students and relevant faculty members explore ethical and value issues related to such topics as neonatology, behavior modification, survival and dying, and reproductive medicine, among others, in an effort to achieve deeper insights through interdisciplinary approaches.
- [Scope: R, D, T/C. For college faculty, grad, med, health students. Began 1974.]

74. CREIGHTON UNIVERSITY  
Omaha, NE 68178

Humanities for the Health Sciences  
Director: James J. Quinn

A comprehensive program in the humanities which is open to all students and faculty. The stress is aimed at the relationship of the humanities to medicine. Courses are offered to the pre-professional and professional students, and a seminar for the entire faculty.

Ancient Medicine, 479 (Sec. 3.01)  
Health Care, Society and Values, 485  
(Sec. 3.01)  
A. Religion and Health; B. Medical  
Problems and Society, 504 (Sec. 3.01)  
Bioethics, 550 (Sec. 3.03)  
Ethical Issues in Patient Care, 754  
(Sec. 3.03)  
Moral Issues for Pharmacists, 771  
(Sec. 3.03)  
Moral Issues in Medicine, 772 (Sec. 3.03)  
Social and Moral Issues for Dentists,  
779 (Sec. 3.03)  
Moral Issues in Life and Health, 795  
(Sec. 3.03)  
Theological Reflection on Health Care,  
798 (Sec. 3.03)

[Scope: R, D (resource materials), T/C (courses, seminars, workshops, colloquia, lecture series). For college faculty, grad/undergrad, med students, sci/nonsci majors, general public. Began 1974. Funded by university, federal government.]

75. DARTMOUTH COLLEGE  
Hanover, NH 03755

Faculty Seminar on the Politics, Ethics and  
Economics of Health Care  
Director: Thomas P. Almy, M.D., Dartmouth  
Medical School

An extracurricular series of monthly interdisciplinary discussions of specific ethical issues resulting from application of modern technology to health care. The interaction of technological progress, rising expectations, priorities in public expenditures, political action, and ethical values is emphasized. Problems are addressed in context of regional health needs whenever possible.

[Scope: R, D (resource materials), T/C (seminars). For college faculty, undergrad, med students, general public. Began 1974. Funded by college.]

76. DUTCHESS COMMUNITY COLLEGE  
Poughkeepsie, NY 12601

Human Genetics and Human Values Institute  
Director: Henry M. Muschio, Jr.

A series of 15 four to five-hour sessions during the January term presenting a multifaceted, interdisciplinary series of lectures, laboratory demonstrations, panel discussion groups, visiting lecturers, A-V presentations, visitations and tours of county and state agencies and facilities and group dialogue in the areas of human genetics, cytogenetics, biochemistry, societal problems, clinical aspects, community aspects, ethics and morality in problems dealing with developmentally disabled individuals.

[Scope: T/C (seminars, workshops, colloquia, lecture series, debates, visitations, panel groups). For undergrad, sci/nonsci majors, general public, agency personnel, professionals, para-professionals. Began 1975. Funded by college, private foundation.]

77. EASTERN VIRGINIA MEDICAL SCHOOL  
Norfolk, VA 23501

Bio-Medical Ethics  
Director: Donnie J. Self

The scope of the program is to stimulate dialogue about alternative positions on bio-medical ethical issues, develop curricula for health care professions with regard to bio-medical ethical issues, work toward providing training of religious professionals for greater skill in counseling and pastoral care in area hospitals and other health care facilities, develop community-wide continuing education opportunities concerning bio-medical ethical issues, and serve as a resource in the development of in-house bio-medical ethics committees in area hospitals and other health care facilities.

[Scope: T/C (workshops, symposia). For college faculty, med students, general public. Began 1972. Funded by college, community organization contributions.]

78. FORT WRIGHT COLLEGE  
Spokane, WA 99204

Biomedical Ethics  
Director: Ione Gautereaux

Problems dealing with moral values in defective newborns, abortion, long-term intensive treatment, aging and death and illness.

Course  
Ethics and Human Values of Industry,  
813 (Sec. 4.01)

[Scope: T/C (seminars, lecture series, debates). For college faculty, undergrad, general public. Began 1976. Funded by college.]

79. GEORGETOWN UNIVERSITY  
Washington, D.C. 20057

Kennedy Institute, Center for Bioethics  
Director: LeRoy Walters

The Kennedy Institute is an interdisciplinary research institute at Georgetown University. The Center for Bioethics represents the fields of research biology, clinical medicine, and ethics. Major programs of the Center include (1) research and publication, (2) teaching and (3) the development of library resources and information-retrieval capabilities.

Courses  
Issues in Religious Ethics: Love and Justice, 274 (Sec. 1.03)  
Value Conflicts in the Practice of Medicine, 379 (Sec. 1.05)  
Philosophy of Medicine--An Examination of the Concept of Disease, 502 (Sec. 3.01)  
Value in the Health Professions, 511 (Sec. 3.01)  
Ethics and Biomedicine, 616 (Sec. 3.03)  
Ethical Issues in Human Experimentation, 713 (Sec. 3.03)  
Seminar on Bioethics, Religious and Humanistic Ethics, 797 (3.03)

[Scope: R, D (bibliography, resource material, encyclopedia of bioethics), T/C (seminars, workshops, courses, lecture series). For grad/undergrad, law and med students, general public, health professions, policy makers in areas of science and health. Began 1971. Funded by university, private foundations, federal government.]

80. INDIANA UNIVERSITY, POINTER CENTER  
Bloomington, IN 47401

Medicine and the Public  
Director: David H. Smith

A cluster of courses. A set of programs were developed to upgrade public discussion and private education about the ethical and social problems created by developments in biology and the life sciences.

[Scope: R, T/C (seminars, workshops, colloquia, courses, lecture series, debates). For college faculty, undergrad, law and med students, sci/nonsci majors, general public. Began 1975. Funded by university, private foundation, federal government.]

81. INSTITUTE OF SOCIETY, ETHICS AND THE LIFE SCIENCES  
Hastings-on-Hudson, NY 10706
- Education Program  
Director: Daniel Callahan, Hastings Center
- The program conducts workshops for teachers and health care professionals throughout the country, sponsors internships for graduates and undergraduates and fellowships for post-doctoral students, and offers reading packets for teaching and public information.
- Courses  
Pediatrics, Ethics, and the Law:  
Workshop 2, 528 (Sec. 3.02)  
Clinical Medical Ethics: Workshop 3,  
535 (Sec. 3.03)  
Bioethics and Public Policy:  
Workshop 1, 855 (Sec. 5.01)
- [Scope: R, D (instructional material, bibliographies), T/C (workshop, lecture series, debates). For college faculty, med professions, clergy, social workers, post-grad students. Funded by private foundation, institute.]
82. INSTITUTE OF SOCIETY, ETHICS AND THE LIFE SCIENCES  
Hastings-on-Hudson, NY 10706
- Internships in the Ethical Issues of Biology and Medicine  
Director: Daniel Callahan, Hastings Center
- The core of the program is an individual, self-initiated research project, although direction and supervision is provided by a staff member. In addition, interns may participate in on-going Institute activities such as conferences, seminars and workshops.
- [Scope: R. For grad/undergrad, law and med students. Funded by private foundation, industry, individuals.]
83. INSTITUTE OF SOCIETY, ETHICS, AND THE LIFE SCIENCES  
Hastings-on-Hudson, NY 10706
- Post-Doctoral Fellowship Program  
Director: Daniel Callahan, Hastings Center
- The Institute provides one-year post-doctoral fellowships for the study of ethics and the life sciences. The purpose of these fellowships is to permit both older and younger researchers to prepare themselves systematically for future productive research on ethical problems arising from advances in medicine and biology.
- [Scope: R, D, T/C. For participants with advanced doctoral or professional degrees. Funded by private foundation.]
84. LOYOLA UNIVERSITY--STRITCH SCHOOL OF MEDICINE  
Maywood, IL 60153
- Medical Ethics Lecture Series  
Director: John M. Fahey
- A guest lecture series. Lecturers invited are the more prominent authorities in the field of medical ethics. Subject matter varies each year.
- [Scope: T/C (lecture series). For med students and faculty, nurses. Began 1972. Funded by university.]

85. MEDICAL COLLEGE OF PENNSYLVANIA  
Philadelphia, PA 19129
- Teaching Program in Human Values in Medicine  
Directors: Michael G. Blackburn, M.D. and  
John H. Sorenson
- Provides an interdisciplinary learning opportunity in which the value component of medical issues can be identified and discussed by medical students. Five teaching modalities are used: elective courses, integrated (required) instruction, independent study and research, student lead bioethics discussions, grand rounds.
- Course  
Bioethics in Perinatology, 533 (Sec. 3.03)
- [Scope: R, D, T/C (seminars, courses, lecture series). For college faculty, med students. Began 1975. Funded by college, industry.]
86. MEDICAL COLLEGE OF WISCONSIN  
Milwaukee, WI 53233
- Medical Ethics Sessions  
Directors: Sally Long and Paul Rosenfeld, M.D.
- Series of lecture and discussion seminars on ethical issues related to medicine.
- [Scope: T/C (seminars). For med students. Began 1976. Funded by faculty contributed time.]
87. RUSSELL SAGE COLLEGE  
Troy, NY 12180
- Sage Center for Biomedical Ethics  
Director: Rolf Ahlers
- Consists of (1) conferences open to the public in cooperation with the Albany Medical Center with invited guests, (2) courses on Biomedical Ethics for students, and (3) "Philosophy Forums" for students, faculty and outside public.
- Course  
Biomedical Ethics, 588 (Sec. 3.03)
- [Scope: T/C (seminars, courses, lecture series). For undergrad sci majors. Began 1973. Funded by college, private foundation.]
88. SOUTHERN ILLINOIS UNIVERSITY SCHOOL  
OF MEDICINE  
Springfield, IL 62708
- Medical Education, Society and the Humanities (MESH)  
Director: Glen W. Davidson
- A multidisciplinary approach designed to bring the insights of the humanities, social sciences, and behavioral sciences to bear on clinical practice.
- [Scope: R, D (instructional and resource materials, bibliographies and visual aids), T/C (seminars, workshops, colloquia, courses, lecture series). For med students, general public. Began 1973. Funded by university.]
89. UNIVERSITY OF ALABAMA  
Birmingham, AL 35294
- Moral Issues in Health Care  
Directors: Kirk Avent, Medicine and  
Gregory E. Pence, Philosophy/Medicine
- Consists of offering a course in medical ethics to first-year medical students, a bi-monthly seminar in medical ethics for the university, workshops for medical faculty, and a course in ethics for nursing and allied health students. A coordinator, with joint appointment in medicine and philosophy, has primary responsibility for teaching medical students and expanding the program.
- Course  
Moral Issues in Medicine, 773 (Sec. 3.03)
- [Scope: T/C (seminars, workshops, colloquia, courses). For grad/undergrad, sci majors, nursing students, dentistry, public health, allied health, hospital administration. Began 1976. Funded by university.]

90. UNIVERSITY OF ARIZONA  
Tucson, AZ 85724
- Division of Social Perspectives in Medicine (DSPM)  
Director: George D. Comerchi, M.D., College of Medicine
- Purpose of DSPM is to introduce to the faculty, students, and community, issues of current importance in the area of human values, law, sociology, anthropology and others and their relationship to the role of medicine in contemporary society.
- Course  
Medical Jurisprudence, 769 (Sec. 3.03)
- [Scope: T/C (seminars, workshops, lecture series). For college faculty, grad/undergrad, law and med students, sci/nonsci majors, general public. Began 1968. Funded by grant (Kenneth A. Hill Memorial Fund).]
91. UNIVERSITY OF CALIFORNIA, SCHOOL OF MEDICINE  
Los Angeles, CA 90024
- Medicine and Society Forum  
Director: Bernard Towers, Pediatrics
- A monthly forum which started in January 1974 and has continued at the rate of ten per year. It consists of tightly structured discussions, recorded on videotape, which deal with topics in the ethical, legal, or other societal implications of modern medical practice.
- Courses  
Social Medicine, 507 (Sec. 3.01)  
Law, Medicine and Human Values, 519 (Sec. 3.02)  
Legal and Ethical Issues in Death and Dying, 520 (Sec. 3.02)  
Medicine, Law and Society, 526 (Sec. 3.02)
- [Scope: D (instructional and resource materials, bibliographies), T/C (panel discussions). For college faculty, grad/undergrad, law and med students, general public, housestaff and university employees. Began 1974.]
92. UNIVERSITY OF CALIFORNIA  
San Francisco, CA 94143
- Joint Program in Bioethics: Bioethics Group: Bioethics Program/Health Policy  
Director: Albert R. Jonsen, Health Policy Program
- A joint program with the Pacific School of Religion in Berkeley, California provides bioethics instruction in the form of lectures in already established courses in the four schools; participates in grand rounds, staff conferences; guided studies of selected scholars and fellows in bioethics; sponsors public forum activities for promoting a dialogue among humanists, biomedical researchers, health care professionals and the public concerning bioethical issues.
- Course  
Bioethics Workshop, 743 (Sec. 3.03)
- [Scope: D (instructional material), T/C (seminars, workshops, colloquia, courses). For college faculty, grad, med, divinity and theology students. Began 1973. Funded by university, private foundation, federal government.]
93. UNIVERSITY OF CHICAGO  
Chicago, IL 60637
- Arts and Sciences Basic to Human Biology and Medicine (ASHUM)  
Director: Arnold W. Ravin
- Four-year program (last two undergraduate years and first two graduate years) integrating biomedical sciences basic to human biology and medicine with social sciences and humanistic disciplines that impinge upon questions of health.
- Course  
Biological and Ethical Aspects of Control of Reproduction, 711 (Sec. 3.03)
- [Scope: T/C (seminars, colloquia, courses, lecture series). For grad/undergrad, med students, sci/nonsci majors. Began 1977. Funded by university, private foundation.]

94. UNIVERSITY OF CHICAGO  
Chicago, IL 60637
- Social and Ethical Issues in Medicine  
Director: Chase P. Kimball, M.D. Psychiatry
- An examination of social and ethical issues in medicine with medical students during medical education beginning in the first year and extending through clinical clerkship and electives. Emphasis is on decision-making processes.
- Course  
Social and Ethical Issues in Medicine,  
506 (Sec. 3.01)
- [Scope: D (instructional and resource material, bibliographies), T/C (seminars, colloquia, courses, lecture series). For grad/undergrad, med students, sci/nonsci majors. Began 1977. Funded by university, private foundation.]
95. UNIVERSITY OF DELEWARE  
Newark, DE 19711
- Culture of Biomedicine (CBM)  
Director: Edward Lurie
- Interdisciplinary program of core and advanced courses in the social, cultural, and humanistic aspects of biomedicine that currently has a faculty of seventeen and offers core and elective courses. Many courses are team-taught and carry either Humanities or Social Science distribution credit. They provide a unique vehicle to strengthen regular departmental offerings, teach students of the health professions about the social significance of science and its applications. It brings lecturers to campus, sponsors conferences, and holds faculty seminars.
- Courses  
American Literature and the Universe  
of Force, 207 (Sec. 1.02)  
Creative Process in Science and the  
Humanities, 208 (Sec. 1.02)  
Leonardo da Vinci: Art and Science,  
218 (Sec 1.02)  
Literature and Science, 219 (Sec.  
1.02)  
Philosophy of Medicine/Philosophy of  
Technology, 503 (Sec. 3.01)  
Society, Culture and Health Care,  
508 (Sec. 3.01)  
Ethical and Moral Problems of Bio-  
medicine, 606 (Sec. 3.03)  
Medical Ethics, 657 (Sec. 3.03)
- [Scope: T/C (colloquia, courses, lectures). For undergrad, sci/nonsci majors, pre-med, nursing, physical therapy, med technology students. Began 1975. Funded by federal government.]
96. UNIVERSITY OF ILLINOIS AT THE  
MEDICAL CENTER  
Chicago, IL 60680
- Ethics for Health Professionals  
Director: William A. Overholt, Health Resources  
Management
- To raise the ethical problems in health care delivery and to provide resources for study and resolution.
- Course  
Ethics for Health Professionals, 755  
(Sec. 3.03)
- [Scope: T/C (workshops, courses, lecture series. For undergrad/grad, law and med students, college faculty, sci majors. Began 1975. Funded by university.)]
97. UNIVERSITY OF IOWA  
Iowa City, IA 52242
- Behavior, Law and Ethics (BLE)  
Director: Nancy C. Andreasen, M.D.
- Monthly interdisciplinary seminars to discuss case-centered issues in medical ethics. We hope to develop enough interest to encourage the hiring of full time person to coordinate work in medical humanities on campus.
- Course  
Behavior, Law and Ethics, 742 (Sec. 3.03)
- [Scope: T/C (seminars, courses). For college faculty, med students. Began 1973.]

98. UNIVERSITY OF LOUISVILLE  
Louisville, KY 40201
- Humanities and Medicine  
Director: Virginia Keeney, M.D., Medicine
- Program is evolving from an initial course in medical ethics into a broad schedule of courses elaborating relationships with medicine in history, philosophy, theatre, literature, art and theology.
- Courses  
Advanced Seminar in Medical Ethics, 740 (Sec. 3.03)  
Ethical Aspects in Care of the Dying Patient, 751 (Sec. 3.03)  
Human Values in Medicine, 758 (Sec. 3.03)
- [Scope: D (instructional material), T/C (seminars, workshops, courses, lecture series). For med students. Funded by university.]
99. UNIVERSITY OF MARYLAND SCHOOL OF MEDICINE  
Baltimore, MD 21201
- Medical Ethics--Introduction to Clinical Practice  
Director: Donald Pachuta
- Consists of course, utilizing clinicians as a panel, to discuss before the sophomore class problems such as doctor-patient relationship, coercion in practice, death and dying, and other topics.
- Course  
Medical Ethics, 767 (Sec. 3.03)
- [Scope: T/C (seminars, courses) For med students. Began 1975.]
100. UNIVERSITY OF MICHIGAN MEDICAL SCHOOL  
Ann Arbor, MI 48109
- Unit for Human Values in Medicine  
Director: J. Daniel Burke
- An effort to introduce methods and insights of the humanistic and social science disciplines into the process of medical (and other health professional) education.
- Course  
Issues in Bioethics, 760 (Sec. 3.03)
- [Scope: R, T/C (seminars, workshops, coll quia, courses, lecture series, debates). For grad/undergrad, med students, sci/nonsci majors. Began 1972. Funded by university, industry, religious institution.]
101. UNIVERSITY OF MINNESOTA  
Minneapolis, MN 55455
- Social Curriculum Project  
Director: Clayton Rowland, Pharmacy
- An experimental program designed to develop, implement and evaluate a patient-oriented, holistic, problem-solving pharmacy curriculum. The emphasis of this program is on the patient. The program includes instruction in ethics, cultural anthropology, communication skills and other relevant areas of the social sciences.
- Course  
Ethics and Health Care, 539 (Sec. 3.03)
- [Scope: D (instructional and resource materials), T/C (workshops). For undergrad, sci majors. Began 1975. Funded by federal government.]
102. UNIVERSITY OF MISSOURI MEDICAL CENTER  
Columbia, MO 65201
- Health Services Research Center and Health Care Technology Center  
Directors: Daryl Hobbs and Donald Lindberg, M.D., Research Agenda Group
- The responsibilities of the Research Agenda Group are to review research projects and priorities in terms of their ethical, legal, social, psychological and sociological significance of innovations and breakthroughs and developments in technology as it applies to health care.
- [Scope: R, D. For faculty from all over the campus. Began 1977. Funded by federal government.]

103. UNIVERSITY OF PITTSBURGH  
Pittsburgh, PA 15261

Program for Human Values in Health Care  
Directors: William M. Cooper, M.D. and  
Kenneth F. Schaffner, University Health  
Center of Pittsburgh

Provides ethical and human value instruction for medical students, house officers, nurses, and attending physicians via rounding of human values resource personnel with physicians, clinical conferences, public lectures (also open to the adult public), and workshops in philosophy of medicine.

[Scope: D (instructional and resource materials), T/C (seminars, workshops colloquia, lecture series, debates). For undergrad. Began 1970. Funded by university, federal government.]

104. UNIVERSITY OF TENNESSEE  
Knoxville, TN 37916

Graduate Study in Philosophy with Concentration  
in Medical Ethics  
Director: Glenn C. Graber, Philosophy

Graduate study in philosophy with special attention to ethical theory is combined with examination of the nature and problems of health care and experience in the clinical setting of a health sciences center. The objective is to prepare students for teaching and research in medical ethics.

Courses

Advanced Residence in Medical Ethics,  
531 (Sec. 3.03)  
Religious and Philosophical Issues in  
Medical Ethics, 693 (Sec. 3.03)  
Theoretical Issues in Medical Ethics I,  
704 (Sec. 3.03)  
Theoretical Issues in Medical Ethics II,  
705 (Sec. 3.03)  
Topics in Medical Ethics, 706 (Sec. 3.03)  
Advanced Topics in Medical Ethics, 741  
(Sec. 3.03)  
Clinical Practicum in Medical Ethics,  
747 (Sec. 3.03)

[Scope: R, T/C (seminars, courses, clinical practice), D (instructional and resource materials, bibliographies). For grad. Began 1975. Funded by university.]

105. UNIVERSITY OF TENNESSEE  
Memphis, TN 38163

Human Values and Ethics  
Director: David C. Thomasma, Health Sciences

Focus on value clarification through tutorials and courses, teaching on rounds in primary, secondary and tertiary care settings, offering Ethical Grand Rounds, and in training humanities professionals by using extensive clinical experience. The Program is presently revising all of its 17 courses approved for students in Allied Health, Medicine, Nursing, Graduate Social Work, Pharmacy, Dentistry and Basic Medical Sciences.

[Scope: R, D (instructional materials), T/C (seminars, colloquia, courses, lecture series, ethical grand rounds). For grad, med students, sci majors, general public. Began 1973. Funded by university, state and federal government.]

106. UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER  
Dallas, TX 75235
- Medical/Ethical Grand Rounds  
Director: Barbara L. Manroe, M.D.,  
Southwestern Medical School, Pediatrics
- A once a month seminar/discussion of specific medical cases chosen to focus the discussion toward the underlying assumptions affecting the medical decisions made. Participants include moderator who is practicing neonatologist with strong philosophy training and other members of medical school faculty including M.D.s, Ph.D.s and J.D.s. The other panel members are chosen in relation to the specific case discussed.
- [Scope: T/C (seminars, debates). For med students, faculty, students in allied health fields. Began 1976. Funded by medical school.]
107. UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER  
Dallas, TX 75235
- Medical Humanities  
Director: Jonathon Erlen
- Attempts to integrate the various facets of humanities into the world of medical science. These courses and lectures hope to show students and practicing physicians how medical humanities can be an asset in their field of health care delivery.
- Course  
Biomedical Ethics, 596 (Sec. 3.03)  
Independent Studies in Biomedical Ethics, 629 (Sec. 3.03)
- [Scope: T/C (courses, workshops, debates). For college faculty, grad/undergrad, med. students, sci/nonsci majors. Began 1976. Funded by university.]
108. UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER  
Houston, TX 77025
- Legal Issues in Biology and Medicine  
Director: Margery W. Shaw, M.D., Graduate School of Biomedical Sciences
- An interdisciplinary approach to biomedical problems including: (1) the right to control the use of one's own body (informed consent, human experimentation); (2) privacy and confidentiality (right of privacy and law); (3) special genetics problems (screening, counseling); (4) reproductive alternatives; (5) parental authority in procreation.
- [Scope: T/C (seminars). For grad. Began 1977. Funded by state government.]
109. UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER  
San Antonio, TX 78284
- Committee for Teaching Social and Moral Values in the Health Sciences  
Director: Alvin G. Burstein
- An interdisciplinary, four module elective, plus a speakers program. New teaching materials are purchased and developed.
- [Scope: D (instructional materials), T/C (seminars, lecture series). For med and grad students. Began 1973.]
110. UNIVERSITY OF TEXAS MEDICAL BRANCH  
Galveston, TX 77550
- Institute for the Medical Humanities  
Director: William B. Bean, M.D.
- A multidisciplinary program of research and education in the humanities and medicine involving the disciplines of history, philosophy, religious studies, law, and literature.
- Courses  
Medical Ethics, 377 (Sec. 1.05)  
Topics in the Humanities, 510 (Sec. 3.01)
- [Scope: R, D, T/C. For grad, med, nursing, allied health students. Began 1973. Funded by university, private foundation, state and federal government.]

111. UNIVERSITY OF WISCONSIN  
Madison, WI 53706

Medical Ethics  
Director: Norman Fost

Teaching, service and research in various areas of medical ethics. Full-time faculty from law, philosophy and medicine.

Courses  
Law and Contemporary Problems: Law and Health Policy, 516 (Sec. 3.02)  
Ethical Issues in Medicine, 538 (Sec. 3.03)  
Ethical Issues Raised by Biomedical Technology, 613 (Sec. 3.03)

[Scope: R, D, T/C. For college faculty, grad/undergrad, law and med students, sci/nonsci majors, general public. Began 1973. Funded by university, private foundation, state government.]

112. VIRGINIA COMMONWEALTH UNIVERSITY  
Richmond, VA 23298

Medical Ethics  
Director: Glenn R. Pratt

Involves all the schools of the Medical College of Virginia, but it is located for administrative purposes within the School of Allied Health Professions. Faculty are involved from various departments within the medical center. Human Values input is coordinated with personnel from the Department of Philosophy and Studies and from the Department of Patient Counseling.

Courses  
Insight in the Humanities for the Physician, 489 (Sec. 3.01)  
Medical Ethics, 661 (Sec. 3.03)  
The Physician as a Consultant on Sex, 776 (3.03)

[Scope: R, D (bibliographies), T/C. For college faculty, med, pharmacy, nursing, allied health, dental students. Began 1966. Funded by university, private foundation.]

113. WAYNE STATE UNIVERSITY  
Detroit, MI 48202

Human Values in Health Care  
Director: Roberta Cotman, College of Pharmacy and Allied Health Professions

A committee was formed on the level of Allied Health Professions to surface the issues and concerns of bioethics. The committee is composed of a representative from each of the disciplines, a student representative and the director of the Ministry to Medicine. The first activity of the committee was a symposium for all the students of the college on Human Values in Health Care.

[Scope: T/C (symposium). For undergrad, allied health students, pharmacy students. Began 1976. Funded by university.]

114. WHITTIER COLLEGE  
Whittier, CA 90608

Medical Ethics Study Group  
Director: Michael Praetorius, Philosophy

Along with the Presbyterian Inter-Community Hospital, the college holds a bi-monthly colloquia, to discuss the legal and ethical implications of protocols presented by the physicians in the group, or discuss a paper presented by one of the members.

... in the Professions, 330

[Scope: T/C (colloquia). For college faculty, physicians and attorneys. Began 1975. Funded by university, hospital.]

115. WILLIAM PATERSON COLLEGE OF NEW JERSEY      Ethical/Value Issues in the Life Sciences  
Wayne, NJ 07470      Director: Clifford Adelman

Includes six ethics/values add-on components for six existing courses in biology and psychology, with case settings and issues suggested by course subject matter. A separate comprehensive course addressing ethics/values issues with case settings drawn from a variety of areas and adapted to the issues. An evaluation device to measure student growth in values awareness.

Course  
Science and Social Responsibility,  
050 (Sec. 1.01)

[Scope: D (instructional and resource materials, bibliographies, case studies); T/C (workshops, courses). For undergrad, sci majors. Began 1976. Funded by university.]

116. WORCESTER POLYTECHNIC INSTITUTE  
Worcester, MA 01609

Bioethics Program  
Directors: B. B. Hoskins, T.A. Shannon and  
J. Manfra

Interdisciplinary program in social ethics, biology, and history (law) includes (1) undergraduate projects, (2) survey course of philosophical issues and current social dilemmas, (3) group seminars, and bi-yearly Bioethics Week open to Worcester Community, (4) cooperative research inter- and intra-college on impacts of synthetic biology in agriculture and industry, values learning, and teaching of bioethics.

[Scope: R, D (instructional materials, bibliographies), T/C (seminars, colloquia, courses, undergrad projects). For college faculty, undergrad, sci majors, general public. Began 1973. Funded by institute.]

117. WRIGHT STATE UNIVERSITY SCHOOL OF  
MEDICINE  
Dayton, OH 45401

Department of Medicine in Society  
Director: Robert D. Reece

Provides a liberal arts perspective to the basic science part of medical education. The program will present material germane to the humanities and social sciences.

Courses  
Medicine in Society, 492 (Sec. 3.01)  
Medicine in Society, 493 (Sec. 3.01)

[Scope: R, T/C. For med students. Began 1975. Funded by university.]

## COURSES WITH EVIST ORIENTATION

1. SCIENCE, TECHNOLOGY, AND HUMAN VALUES
  - 1.01. Science/Technology and Human Values
    - Ethics and Values Dimensions
    - Societal Perspectives
    - Human Identity (Human Nature)
    - Biology and Human Affairs
    - Historical Perspectives
    - Futures
    - Technology Transfer
  - 1.02. Science/Technology and the Arts and Humanities
  - 1.03. Science/Technology and Religion
  - 1.04. Methodologies of Science/Technology
  - 1.05. Professional Ethics
    - General
    - Engineering
    - Psychology
    - Helping Professions
2. ENVIRONMENTAL CONCERNS
  - 2.01. Stewardship of Natural Resources  
(Cultural Attitudes Toward the Environmental/Ethical Responsibilities)
  - 2.02. Global Problems and Strategies
3. HEALTH CARE, LIFE SCIENCES, BEHAVIORAL SCIENCES
  - 3.01. Social/Philosophical Perspectives of Biomedical Sciences
  - 3.02. Law, Medicine, and the Life Sciences  
(Law and Biomedical Sciences)
  - 3.03. Biomedical Ethics
    - Biomedical Ethics (General)
    - Bioethics in Research
    - Bioethics for Health Professions
    - Bioethics and Religion
4. INDUSTRY, COMMERCE, AND SOCIETY
  - 4.01. Industry, Business, and Society
  - 4.02. Computers/Microelectronics
  - 4.03. Media/Communications
5. PUBLIC POLICYMAKING
  - 5.01. Science/Technology and Public Policy
  - 5.02. Control of Science/Technology
  - 5.03. Role of Scientists/Engineers in Policymaking
  - 5.04. Technology Assessment/Forecasting

COURSES WITH EVIST ORIENTATION

1. SCIENCE, TECHNOLOGY, AND HUMAN VALUES

1.01. Science/Technology and Human Values

Ethics and Values Dimensions

001. Atomic Age  
 Lawrence Badash  
 University of California  
 Santa Barbara, CA 93106  
 History  
 Introductory  
 Undergrad/grad, sci/nonsci  
 majors  
 A survey of the Manhattan Project and arms race, emphasizing scientists' contribution and effect upon science. Critical choices are seen as influenced by technical data, but based essentially on value judgments.
002. Bioethics  
 James W. Gustafson, Philosophy  
 Wallace W. Blanchard, Biology  
 Northern Essex Community College  
 Haverhill, MA 01830  
 Biology/Philosophy  
 Introductory  
 Undergrad  
 An examination of the inter-relationships between philosophy (metaphysics and ethics) and problems arising from advances in the sciences (biology) including the ethical implications of population control, resource allocation (food, energy, minerals), biomedicine, and environment (land use, wildlife conservation).
003. Chemistry, Society and the Environment  
 W. W. Fogleman, Chemical Sciences  
 Old Dominion University  
 Norfolk, VA 23508  
 Chemistry  
 Advanced  
 Undergrad sci/nonsci majors,  
 public school teachers  
 Delves into scientific method, its human frailties and nonutility for making ethical decisions. Examines role of science and technology in improving and degrading human conditions. Scientific, economic and philosophical aspects discussed.
004. Contemporary Ethical Problems  
 Dale Miller, Religion  
 Drake University  
 Des Moines, IA 50311  
 Religion and Philosophy  
 Introductory  
 Undergrad  
 Analysis of ethical issues involved in shift from industrial era to technological era with consequent development of a new morality.
005. Contemporary Science and Human Values  
 Staff, Division of University Studies  
 North Carolina State University  
 Raleigh, NC 27607  
 University Studies  
 Introductory  
 Undergrad sci/nonsci majors  
 An exploration of the major intellectual consequences of some of the recent and anticipated developments in 20th-century science and scientific method, particularly in the bio-sciences and psycho-social sciences.

006. Dilemma of a Moral Individual in a Technological Society Honors  
 John W. Gilje, Chemistry  
 Julia Z. Gilje, Geography  
 University of Hawaii  
 Honolulu, HI 96822  
 Junior and Senior interdisciplinary colloquium  
 Undergrad

Explores some of the problems which currently face us both at a personal and societal level. Cultural and social factors which influence the perception of these problems and which sometimes preclude the consideration of certain solutions to them are also discussed.

007. Ecology, Technology and Human Values Interdisciplinary  
 Philip J. Bossert, Philosophy;  
 Prof. Ward, Biology; and  
 Prof. Frystak, Chemistry  
 Hawaii Loa College  
 P. O. Box 764  
 Kaneohe, HI 96744  
 Advanced, senior seminar  
 Undergrad

Applies systems analysis and problem-possibility thinking to areas such as population, food, energy, resources, communications-transportation tradeoffs, social and political institutional modification, cultural value and paradigm shifts, ecosystems and alternate futures projection.

008. Ethical Issues of Science and Technology Honors  
 G. B. Taggart, Physics  
 Virginia Commonwealth University  
 901 W. Franklin Street  
 Richmond, VA 23284  
 Introductory  
 Undergrad

The first semester will consider the atomic bomb as a case study. Course outline is: (1) ethics and the making of decisions; (2) the search for knowledge; (3) developing and using the bomb; and (4) the nuclear weapons race and the ethical issues. The second semester will continue, with the bomb as background, into present problems and ethical decisions surrounding genetic engineering. This course is very much in the preliminary stage.

009. Ethical Theory Philosophy  
 Wayne Cogell and Doug Wixon  
 University of Missouri  
 Rolla, MO 65401  
 Introductory  
 Undergrad

An examination of the nature and justification of moral values as they impact scientific and engineering work.

010. Ethics and Technology Humanities  
 A. Young, E. Stanulis and  
 W. Sewell, Humanities  
 Michigan Technological University  
 Houghton, MI 49931  
 Introductory  
 Undergrad sci/nonsci majors

Examination of ethical problems raised by technological advances.

011. Forum for Scientific Inquiry Science Division  
 Tom Pierce, Chemistry; Margaret Brooks, Biology;  
 and Curt Branch, Biology  
 Oklahoma City University  
 Oklahoma City, OK 73106  
 Introductory  
 Undergrad nonsci

Identifies some of the goals and methods of science, discusses ways that science relates to other human undertakings and explores the impact of science and technology on society and on the environment. Emphasis is placed on determining limits and ethical problems of science. The course is designed to deliver a broad conception of science.

012. Geographic Thought and Philosophy Geography  
 Grad  
 Ralph G. Brown, Geography  
 University of North Dakota  
 Grand Forks, ND 58202
- A scholarly examination of the scope and content of locational factors and spatial relationships concerning changing values and perception as man modifies nature.
013. Human Responsibility and Technology Science-Theology  
 Adults  
 Sr. Mary Pierre Ellebracht, Theology  
 Sr. Joan Kiaas, Science  
 St. Mary's College of O'Fallon  
 O'Fallon, MO 63366
- Designed to deepen awarenesses of the contributions of science and technology to build a more humane world for all. The responsibilities and challenges involved in this, for each person, are included.
014. Human Values and Technological Society (P) Values, Technology and Society  
 Undergrad  
 David F. Tuttle  
 Stanford University  
 Stanford, CA 94305
- Analysis and assessment of the status of human values in contemporary Western society, factors affecting this status, and its impact on the quality of life today. Values considered include moral and aesthetic, individual and social, spiritual and material.
015. Human Values in a Scientific Age Natural Sciences  
 Advanced senior seminar  
 Undergrad, sci/nonsci majors,  
 law and med students  
 Lee H. Kalbus, Chemistry  
 California State College  
 San Bernardino, CA 92407
- Effect of science on human values, consideration of problems caused by the machine age and rapid scientific growth and possible solutions.
016. Human Values in Technology (P) Humanities  
 Introductory  
 Undergrad, sci/nonsci  
 Jerry Gravander, Humanities  
 Clarkson College of Technology  
 Potsdam, NY 13676
- Philosophical analysis of technology and its inter-relationship with humans, their values and their world. Emphasis is placed on the value implications and impacts of technology, and on alternative decision-making frameworks for technological innovations.
017. The Impact of Science and Technology on Culture and Human Values Interdisciplinary Studies  
 General Education  
 Undergrad  
 Helen Trobian, Humanities, et al  
 Bennett College  
 Greensboro, NC 27420
- A study of contemporary problems. Course taught by six faculty utilizing modular method. Faculty prepared original modules under auspices of Institute for Services to Education.

018. Impact of Technology on Human Rights  
 Jay A. Higbee, Social Studies  
 University of Washington  
 Seattle, WA 98195  
 Humanistic-Social Studies  
 Advanced  
 Undergrad/grad, sci/nonsci,  
 and Engineering majors  
 Impact of technology on human rights ranging from its safeguarding and enhancing rights to incursions on them. Uses and abuses of information technology and other technologies ranging from bio-engineering to mass media, including rights and violations stemming from pollution (air, land, water and others).
019. Impact of Technology on Society  
 Simon deSoto, Mechanical Engineering  
 California State University  
 Long Beach, CA 90840  
 Mechanical Engineering  
 Introductory  
 Undergrad/grad nonsci major  
 Study of the interactions of science and technology with morality and human values, with a description of various historical and modern advances in physics, chemistry, engineering microbiology and medicine. Some philosophical aspects of science and engineering are discussed. Topics include genetics, computers, robotics and automation, electrical and chemical modification of behavior and artificial organs.
020. Introduction to Ethical Theory  
 Department of Philosophy  
 University of Illinois at Chicago Circle  
 Chicago, IL 60680  
 Philosophy  
 Undergrad  
 Designed to prepare the student for more advanced work in ethics. Topics include the analysis of moral judgments, the classification of ethical theories according to their formal properties, the thesis of ethical relativism, and the comparison between ethical and scientific theories.
021. Introduction to Ethics  
 Kent Kedl  
 South Dakota State University  
 Brookings, SD 57006  
 Philosophy  
 Introductory  
 Undergrad sci/nonsci majors  
 Some of the major ethical theories, an investigation of some of the problems arising from these theories and a critical analysis of the validity of these theories in light of the student's own ethical intuitions.
022. Introduction to Philosophy (P)  
 John R. Scudder, Thomas Brickhouse  
 and Ronald Martin  
 Lynchburg College  
 Lynchburg, VA 24501  
 Philosophy  
 Introductory  
 Undergrad  
 The course begins by studying Pirsig's Zen and the Art of Motorcycle Maintenance to probe the main problem of values in a technological society. Then, classical philosophers are studied to show the split between mind and matter, values and knowledge, personal and public. Finally we read MacMurray's Reason and Emotion in an attempt to overcome splits.
023. Introductory Ethics  
 Robert Hollinger, et al, Philosophy  
 Iowa State University  
 Ames, IA 50010  
 Philosophy  
 Introductory  
 Undergrad  
 An examination of the relations between science, technology and values in the modern world. Emphasis on the conflict between the open and the closed societies.

024. Man and the Search for Values Philosophy  
Introductory  
Undergrad sci/nonsci majors  
Mark A. Moore  
Salisbury State College  
Salisbury, MD 21801
- Study of the value perspectives called into question by technology and social planning. Some emphasis on total institutions, the drive for efficiency, intimacy and nuclear war.
025. Man and Values Philosophy  
Introductory  
Undergrad  
J. G. Olson and J. Glidden  
Weber State College  
Ogden, UT 84408
- Although content varies according to the instructor and students, emphasis is generally given to the role of science and technology in affecting the culture and environment, and how one may responsibly effect desirable changes. Historical considerations play a part in the course.
026. Man, Applied Science and Technology Interdisciplinary Studies  
Advanced  
Undergrad  
Isabel Ball, Chemistry;  
Christine Morkovsky, Philosophy; and  
Nile Norton, History  
Our Lady of the Lake University  
411 SW 24th Street  
San Antonio, TX 78285
- An interdisciplinary course integrating the natural and social sciences as they affect man and his answers to the ultimate questions.
027. Modern Science and Society History  
Introductory  
Undergrad  
Daniel Bly and Fred Keihn, History  
Bridgewater College  
Bridgewater, VA 22812
- Exploration of the role of science and scientific thought in our modern industrialized society and the relationships between science and all other areas of modern life. Also, an examination of the impact that changing scientific knowledge has on our institutions and values.
028. Nature and Continuity of Life Natural Science  
Introductory  
Undergrad nonsci majors  
Michael Kamrin, et al  
Michigan State University  
East Lansing, MI 48824
- The nature of living things, contrasting various scientific and nonscientific views. The implications of the modern scientist's understanding of life for our beliefs and values.
029. Nature of Nature Interdisciplinary  
Nonsci majors  
John R. Kalafut, Physics;  
Paul F. Fahey, Physics; and  
Matthew J. Fairbanks, Philosophy  
University of Scranton  
Scranton, PA 18510
- A look at the effect of science on man and his environment. Special attention is devoted to the ethical implications of science and technology. The development of science is considered from an historical point of view.

030. Norms and Human Values Philosophy  
 Department of Philosophy Advanced  
 Iona College Undergrad  
 New Rochelle, NY 10801
- The main concerns of this course are to clarify and make explicit the fundamental evaluative concepts and forms of justification employed in human relations, and to indicate how interpersonal evaluation can be anchored in an understanding of the Self, both as an individual and a human being.
031. Philosophical Studies: Science and Human Values Philosophy  
 William A. Rottschaefter Introductory  
 Lewis and Clark College Undergrad sci/nonsci majors  
 Portland, OR 94219
- The aim of the course is to introduce students to ethical and value issues as they arise in the sciences, to provide students with basic knowledge of ethical systems and modes of analyses and to allow students to study in depth a single issue in the area of ethics and science.
032. Philosophy of Technology Philosophy  
 William Jones, Philosophy Advanced  
 College of Arts and Sciences Undergrad nonsci majors  
 Eastern Kentucky University  
 Richmond, KY 40475
- Survey of contemporary theories concerning interrelations of man, technology and nature. Emphasis given to ethical critiques of technology.
033. Philosophy of Technology Lyman Briggs College  
 Philip Shepard Intermediate  
 E-29 Holmes Hall Undergrad  
 Lyman Briggs College  
 Michigan State University  
 East Lansing, MI 48824
- Study of the major positions on the relationship of technology to both science and human values. Appraisals of the cultural significance of modern technology and its social forms.
034. Philosophy of Values Philosophy  
 Joseph P. Ghougassian, Philosophy Intermediate  
 University of San Diego Undergrad sci/nonsci majors  
 San Diego, CA 92110
- An introduction to axiology, the philosophical study of the nature of value in general, and of the principal types of values. Includes interdisciplinary applications technology and economy as experienced in the United States.
035. Physical Science and Society Natural and Math Sciences  
 Roger H. Anderson, Physics Advanced  
 Seattle Pacific University Undergrad nonsci  
 Seattle, WA 98119
- Three views of science. Science and human values, science and religion and technology and human values. Background and history of evolution of modern physical science. Evolution of scientific technological sensibility.

036. Problems in the History and Philosophy of Science (P)  
 Leslie J. Burlingame, History and Philosophy  
 of Science  
 Franklin and Marshall College  
 Lancaster, PA 17604
- History and Philosophy of  
 Science  
 Introductory  
 Undergrad sci/nonsci majors,  
 med students

Examination of the interaction of science, society, and values through two extended case studies: (1) Scientific Revolution (Copernicus through Newton) focuses on interrelations of scientific change and social, economic, political and cultural change; (2) Genetics and Society in the 20th Century discusses relationships between development and application genetics and social aims and values. Includes current debates.

037. Science and Culture in the 20th Century  
 James W. Atkinson and Walter C. Blinn  
 Michigan State University  
 East Lansing, MI 48824
- Natural Science  
 General Education  
 Undergrad nonsci majors

Exploration of the relationship of revolutionary new ideas in 20th-century science such as evolution, relativity, quantum theory to similarly new movements in other areas of contemporary belief and values (World Views).

038. Science and Ethics  
 Finbarr O'Connor  
 Beaver College  
 Glenside, PA 19038
- Honors  
 Advanced  
 Undergrad

A discussion with scientists from a variety of disciplines on ethics impinging on that discipline.

039. Science and Ethics  
 E. J. Schillinger, Physics;  
 J. W. Keating, Philosophy; and  
 R. C. Thommes, Biology  
 De Paul University  
 Chicago, IL 60614
- Philosophy and Religion  
 and Natural Science - Math  
 Undergrad sci/nonsci majors

Study of selected problems such as nuclear war and reactors, genetic engineering and life and death, affecting person and society with emphasis upon their ethical dimensions.

040. Science and Ethics (P)  
 Clark Glymour, Philosophy  
 University of Oklahoma  
 Norman, OK 73019
- Philosophy  
 Introductory and Advanced  
 Undergrad sci/nonsci

Ethical issues in the conduct of scientific research, estimation of risk, responsibility of scientists for application of their work, freedom of inquiry and the responsibilities of institutions supporting science.

041. Science and Human Values  
 Donald H. Williams and Erwin J. Brink, Chemistry  
 Hope College  
 Holland, MI 49423
- Interdisciplinary Studies  
 Advanced  
 Undergrad sci/nonsci majors

A senior level seminar examining the role of science in our environment, society and values and then the converse.

042. Science and Human Values  
 F. James Rutherford and James Connor  
 Science Education  
 New York University  
 Washington Square  
 New York, NY 10003  
 Science Education  
 Graduate level  
 Grad sci/nonsci majors
- Object of the course is to get students to think about broad issues, express this thought in short, concise papers that reflect on the readings, and discuss thoughts in the class.
043. Science and Human Values  
 E. Hennick, General Studies;  
 J. White, Science, General Studies; and  
 Fred Wilson, National Institute of the Deaf  
 Rochester Institute of Technology  
 Rochester, NY 14623  
 Science and Humanities  
 Introductory  
 Undergrad sci/nonsci majors
- A methodological approach to examine how we got our current values, the contributions of science to these values, the interactions of science with our values, and the dangers to our values from an uncontrolled technocracy. (Special section for both hearing and deaf students taught by Fred L. Wilson.)
044. Science and Human Values  
 Jack Merritt, Physics and David Sadava, Biology  
 Scripps College  
 Claremont, CA 91711  
 Humanities  
 Undergrad/grad nonsci majors
- An overview of science-values relationships through readings and discussion.
045. Science and Human Values  
 Frank C. Andrews, Chemistry  
 Merrill College  
 University of California  
 Santa Cruz, CA 95064  
 Merrill College  
 Advanced  
 Undergrad sci/nonsci majors
- Group independent study on science and human values.
046. Science and Human Values  
 Edward Manier, Philosophy  
 University of Notre Dame  
 Notre Dame, IN 46556  
 Philosophy  
 Introductory  
 Undergrad
- Deals with the ethical, political, aesthetic and religious dimensions of scientific activity, and with the scientific and technological dimensions of ethical and political deliberations.
047. Science and Human Values (P)  
 J. Clayton Feaver, Philosophy  
 and J. Herbert Hollomon  
 University of Oklahoma  
 Norman, OK 73019  
 Philosophy  
 Advanced  
 Undergrad sci/nonsci
- Studies in "new" knowledge about (1) the nature and function of man, (2) the nature and function of human values, (3) the nature and function of human knowledge, (4) the process and techniques of human learning and creativity and (5) the effects of science and technology on human institutions and the individual human being.
048. Science and Human Values  
 West Chester State College  
 West Chester, PA 19380  
 Science  
 Advanced  
 Undergrad sci/nonsci majors

Topics vary depending upon the instructor.

049. Science and the Modern World  
 William J. Birdsall, Chemistry  
 Albright College  
 13th and Exeter  
 Reading, PA 19604
- Science  
 Introductory  
 Undergrad nonsci majors
- Designed to introduce the non-science major to some basic thoughts of modern science, with the added intent of establishing relationships between science and human values. Selected topics are discussed each semester that relate to the impact of science on society.
050. Science and Social Responsibility (P)  
 David Weisbrot, Biology  
 The William Paterson College of New Jersey  
 300 Pompton Road  
 Wayne, NJ 07470
- Biology  
 Advanced  
 Undergrad sci/nonsci majors
- Some topics covered are: race and I.Q., ethics of research, genetic engineering, genetic screening, mutagenesis, behavior control, euthanasia, genetics and politics, medicine and ethics.
051. Science and Technology in Humanistic Perspective  
 Hans O. Tiefel, Religion and  
 Gerald Johnson, Geology  
 College of William and Mary  
 Williamsburg, VA 23185
- College Course  
 Introductory and Advanced  
 Undergrad
- A study of the nature and interrelationships of science and technology. Influence of science and technology on social and political decisions, and an evaluation of their moral and religious implications. Issues include: nuclear power and weapons, earthquake prediction, uses of land and water.
052. Science and Values or Science, Technology and Human Values  
 William E. Schmidt, Chemistry and  
 William C. Parke, Physics  
 George Washington University  
 Washington, D.C. 20006
- Experimental Humanities  
 Introductory  
 Undergrad/grad sci/nonsci majors
- A study of the effect of scientific knowledge and technology on social institutions and the image of man, the question of ethics and morality in science, and the science of values.
053. Science and Values  
 James F. O'Brien, Philosophy  
 Villanova University  
 Villanova, PA 19485
- Honors  
 Advanced  
 Undergrad sci/nonsci majors
- Scientific revolutions and the search for truth; science, scientists and the quest for the good life; crisis in science and crisis in values; the environmental problem and the good of mankind.
054. Science as Human Endeavor  
 Bruce MacLaren and William H. Martin  
 Eastern Kentucky University  
 Richmond, KY 40475
- General Studies Science  
 Introductory  
 Undergrad
- Explore science as a human experience. Lecture/discussions include: science as a creative problem-solving process; values of scientists; misunderstandings of science; scientific revolutions in biology, astronomy, geology and psychology; science and human values.

054A. Science in the World

Gordon Fisher  
Department of Mathematics  
Madison College  
Harrisonburg, VA 22801

Honors/Interdisciplinary  
Introductory, honors  
Undergrad

A general introduction to the place of science in our culture and how it bears on our values.

055. Science, Society and Ethics

John Burkholder, Biology, et al  
McPherson College  
McPherson, KS 67460

Natural Science  
Advanced  
Undergrad

A review of selected developments in the natural sciences which have the potential to have major effects upon society. The ethics of alternative positions with respect to these developments will be examined.

056. Science, Technology and Human Values

Darwin H. Stapleton, HSST  
Case Western Reserve University  
Cleveland, OH 44106

History of Science and  
Technology  
Advanced, no prerequisite  
Undergrad/grad sci/nonsci

Students read and discuss several books, write and present in class a research paper, and take an essay examination. Some topics: ecology, labor, philosophy/theology.

057. Science, Technology and Man

James A. Blachowicz, Philosophy  
Loyola University of Chicago  
Chicago, IL 60626

Philosophy  
Introductory  
Undergrad sci/nonsci majors,  
med students

Introduction to philosophy by developing a small number of selected issues that relate to the impact of the development of science and technology on human value/culture such as freedom, technology, technocracy and causality.

058. Science, Technology, and Values

Eugene E. Selk, Philosophy  
Creighton University  
Omaha, NE 68178

Philosophy  
Advanced  
Undergrad sci majors

Discussion of ethical issues raised by science and technology. The specific problems discussed are: environmental ethics, the growth no-growth controversy, population control, genetic engineering, technology assessment, and privacy. The course also considers science and technology themselves as values, i.e., the new anti-scientism.

059. Science, Technology and Values (P)

C. L. Sanford, Humanities;  
Jos. Brown, History; and  
Prof. Livingston, Political Science  
Rensselaer Polytechnic Institute  
Troy, NY 12181

Human Dimensions Center  
Introductory  
Undergrad/grad

The course's primary objective is to acquaint students with an inter- and multi-disciplinary approach to value problems touching scientific and industrial activities in contemporary society.

060. Science, Technology and Values  
 Department of Philosophy  
 University of Dayton  
 Dayton, OH 45469  
 Philosophy  
 Service  
 Undergrad sci/nonsci majors,  
 engineering students  
 Examines value contexts operative in current uses and advances in science and technology. It addresses the impact of science and technology on individuals and institutions and examines the utopian, dystopian and socialist views of science and technology.
061. Science, Technology and Values  
 Karl Krause, Philosophy  
 Valparaiso University  
 Valparaiso, IN 46383  
 Philosophy  
 Introductory  
 Undergrad sci/nonsci majors  
 This course attempts to relate science and technology to the most important intellectual, social, and ethical values that have characterized the Western world at various times since the 11th century.
062. Science Thought  
 W. Gale Rhodes, et al  
 Maryville College  
 Maryville, TN 37801  
 Science  
 Introductory  
 Undergrad  
 An attempt to delineate and analyze for lay persons the scientific view of the universe and to consider the direction of modern science and technology. Four sections: Scientific perspectives on (1) human origins, (2) human nature, (3) human values, and (4) human destiny.
063. Social Ethics in Technological Society  
 Eugene M. Klaaren, Religion  
 College of Social Studies  
 Wesleyan University  
 Middletown, CT 06457  
 Social Studies  
 Advanced  
 Undergrad/grad sci/nonsci  
 majors, law/med students  
 Examination of the adequacy of selected social-ethical ways of life and thought against a background of current interpretations of technological society.
064. Social Issues in Biology  
 George Kieffer, Ecology, Ethology and Evolution  
 University of Illinois  
 Urbana, IL 61801  
 Biology  
 Advanced  
 Undergrad/grad, general  
 Ethical and socio-political implications of the biological sciences; an issues oriented lecture-discussion format centering on problems such as bioethics, genetics and development, health care and allocation of scarce resources, death and dying, behavior manipulation, biological experimentation, population control, and environmental ethics.
065. Technological Change and Human Values (P)  
 Thomas J. Knight, Social Science and History  
 Pennsylvania State University  
 University Park, PA 16802  
 Science, Technology and  
 Society  
 Advanced  
 Undergrad/grad sci/nonsci  
 Consists of readings on the social and ethical effects of the bomb on war, the computer on work, the pill on reproduction, the TV and the couch on personality, and the state on freedom and dignity. Guest lecturers and panelists, from the sciences and humanities.

066. Technology and Culture  
D. Beaver  
Williams College  
Williamstown, MA 01267
- History of Science  
Intermediate junior and  
senior  
Undergrad
- An historical inquiry into the nature of technology; its effects on society, and the social forces which affect its development and diffusion. The impact of technology on human values and conduct, especially where subtle and unexpected.
067. Technology and Human Values or Technology and Lifestyles  
R. J. Tollefson, Philosophy and Religion  
Buena Vista College  
Storm Lake, IA 50588
- Religion  
Introductory  
Undergrad
- A one-semester survey of alternate interpretations of technological dynamics in our culture and value questions being raised.
068. Technology and Human Values  
Philip A. Pecorino and Argyrios Vourkas  
Queensborough Community College  
City University of New York  
Bayside, NY 11364
- Social Sciences  
Introductory  
Undergrad sci majors
- A study of the major social, economic, political, psychological and philosophical problems arising from our contemporary socio-economic order; the consequences of technological progress in an advanced industrial society.
069. Technology and Human Values  
Bernard Murchland, Philosophy  
Ohio Wesleyan University  
Delaware, OH 43015
- Philosophy  
Introductory  
Undergrad
- Course focuses on ways technology impacts on our value decisions and alters the traditional dialectic of freedom and alienation.
070. Technology and Human Values  
Dennis Holt  
Southeast Missouri State University  
Cape Girardeau, MO 63701
- Philosophy  
Introductory  
Undergrad
- Emphasis on questions of world view: the metaphysical and epistemological presuppositions and implications of science. Some discussion of specific value questions, e.g., animal rights, reliance upon technology, ecological ethics, computers and privacy.
071. Technology and Human Values  
Larry Hickman and Azizah Cox  
Department of Philosophy  
Texas A & M University  
College Station, TX 77843
- Philosophy  
Introductory  
Undergrad sci/nonsci majors
- An attempt is made to introduce the student to important viewpoints advanced concerning the role of technology in human experience especially as that experience changes in response to periodic technical revolutions.

072. Technology and Human Values (P)  
 Georgios Anagnostopoulos, Philosophy  
 University of California, San Diego  
 La Jolla, CA 92093  
 Science, Technology and  
 Public Affairs  
 Introductory  
 Undergrad
- Traditional ideas of nature and the rise of science and technology. The influence of the rise of science and technology on political ideals, on human life, on freedom, on education and on warfare.
073. Technology and Human Values  
 B. B. Saleeby, Engineering and  
 B. Mathieu, English  
 University of New Haven  
 West Haven, CT 06516  
 Humanities  
 Advanced  
 Grad
- The influence of applied science and technology on man's conception of himself, his society and his environment is studied through a selection of contemporary readings. Selected issues are developed to assess the meanings--pro and con--of technology, the nature of social change, and the basis of sound policy formulation and future planning.
074. Technology and Human Values (P)  
 Coralie Beyers, English;  
 Ed Vendell and Clair Batty, Engineering  
 Utah State University  
 Logan, UT 84322  
 Humanities, Arts  
 and Social Sciences  
 Advanced  
 Undergrad/grad
- An examination of attitudes regarding technological advancements. The course was designed to examine the impact of technology upon society and the individual. It is a values course which is intended to bring together students from differing disciplines to examine the history and direction of technology.
075. Technology and Human Values (P)  
 Barry D. Lichter and Michael P. Hodges  
 Technology and Public Policy  
 Vanderbilt University  
 Nashville, TN 37235  
 Philosophy  
 Intermediate  
 Undergrad, arts and sci  
 and engineering majors
- Examination of moral problems arising out of the impact of technology on man. Readings and class discussions of important works in ethics and political philosophy. Case studies of the impact of technology on the individual and on society in contemporary settings. Examines degree to which engineering design (including assessment and forecasting) has confronted value issues.
076. Technology and Society  
 Melvin Gerstein  
 School of Engineering  
 University of Southern California  
 Los Angeles, CA 90007  
 Engineering  
 Introductory  
 Undergrad nonsci
- Deals with the moral and ethical problems associated with technological development as well as the social, economic, and resource pressures which lead to these developments.
077. Technology, Ecology, Morality (P)  
 James R. Arnold  
 Science, Technology and Public Affairs  
 University of California, San Diego  
 La Jolla, CA 92093  
 Science, Technology and  
 Public Affairs  
 Introductory  
 Undergrad, scientists and  
 engineering majors
- Study of the effects of technological development on the welfare of human beings and other living things. Topics like nuclear weapons, the space program and DDT will be treated with some depth. Course designed for those concerned with examining the moral aspects of their career choices and those interested in this broad complex of issues.

078. Technology, Society and Human Values  
H. William Welch, et al, Engineering  
College of Engineering and Applied Sciences  
Arizona State University  
Tempe, AZ 85281
- Engineering, Humanities  
Advanced  
Undergrad/grad sci/nonsci  
majors
- Systems approach to interactions within cultural system (technology, society, human value) and natural system (animal, vegetable, mineral). Emphasis on interdisciplinary thought, objective and subjective. Extensive reading list, books and periodicals, fiction and non-fiction.
079. Technology, Values and Changing Life-Styles (P)  
Edward Daub  
Man, Technology and Society  
University of Wisconsin  
Madison, WI 53706
- General Engineering  
Introductory  
Undergrad/grad sci/nonsci  
majors
- An examination of value judgments in science and technology; the differences between science and technology; the role of technology in generating social change and in solving social problems; the question whether advances in health technology abolish human traditions; the relevance of EVIST to life and career.
080. Technology, Values and Society (P)  
Robert Balmer, Energetics and  
Bernard Gendron, Philosophy  
University of Wisconsin  
Milwaukee, WI 53201
- Philosophy  
Undergrad
- Discussion of controversies over whether modern technology is a progressive or regressive force in human life. Impact of technology on individual and institutional values.
081. Technology, Values and Society (P)  
Rolf Buchdahl  
Technology and Human Affairs  
Washington University  
St. Louis, MO 63130
- Technology and Human Affairs  
Introductory  
Undergrad sci/nonsci majors
- Topics include: Engineering and social change; objectives, methodologies and changing world views of science; the emergence and meaning of technology in the 20th century; scope, priorities and achievements of the technological enterprise in the United States; ethical and moral responsibilities of the technologist as a member of society; considerations in determining which technologies should be developed and for what purpose.
082. Three Trials of Science  
Daniel P. Jones, General Science  
Oregon State University  
Corvallis, OR 97331
- General Science  
Introductory  
Undergrad sci/nonsci majors
- Consideration of the cases of Galileo, Scopes trial and J. Robert Oppenheimer in which science was seen as a serious threat to accepted beliefs resulting in a dramatic confrontation between science and society.
083. Tragic Choices (P)  
G. Calabresi  
Yale Law School  
New Haven, CT 06520
- Postgrads in law, med, and  
med sociology
- A consideration of choices which a society cannot avoid making but which may undermine fundamental values of that society. Allocation of artificial kidneys, service in a limited war and population control will be discussed. Methods for approaching a "first order" determination, disadvantages and advantages of responsible political bodies, the market, juries and lottery systems in making such choices will be examined.

084. Utopias and the Idea of Progress (P)  
 Leslie J. Burlingame,  
 History and Philosophy of Science  
 Franklin and Marshall College  
 Lancaster, PA 17604  
 History and Philosophy of  
 Science  
 Introductory  
 Undergrad sci/nonsci majors
- The Scientific and Industrial Revolution produced the belief that utopia could be realized in the future on this earth. As science was increasingly applied to technological development, fears grew about the future (reflected in "dystopias"). Will human values be destroyed or will science and technology provide a means for establishing an ideal society? What does one mean by an ideal society?
085. Value and Welfare  
 Wendell Gordon  
 Department of Economics  
 University of Texas  
 Austin, TX 78712  
 Economics  
 Advanced  
 Undergrad/grad
- Study of technology, institutional relations, value theory.
086. Values  
 Edward A. Langerak, et al  
 St. Olaf College  
 Northfield, MN 55057  
 Interdisciplinary  
 Introductory  
 Undergrad
- An introduction to the nature of values and their role in society. Analysis of value-laden solid issues such as medical ethics, the environmental crisis and technological change.
087. Values and Oceanic Technology  
 Dale D. Simmons, Psychology  
 Oregon State University  
 Corvallis, OR 97331  
 Psychology  
 Advanced  
 Grad sci majors
- Focus on the impact of oceanic technology upon personal values. The content of the course will be developed in spring 1977.
088. Values and Technology  
 Frederick Ferré  
 Dickinson College  
 Carlisle, PA 17013  
 Philosophy  
 Advanced  
 Undergrad
- Explores the foundations of technology in science and culture, with values assessment both of these foundations and of technological impact on society.
089. Values and World-Views in Science Education (P)  
 Michael H. Zenzen, Philosophy and  
 Henry B. Hollinger, Chemistry  
 Rensselaer Polytechnic Institute  
 Troy, NY 12181  
 Philosophy  
 Advanced  
 Undergrad/grad sci majors
- Reflection on the process of science education. Values and world-views operative within science are implied in the methods and techniques of science and in the behavior of the scientist in his work and teaching. Science education is studied as a complex "apprenticeship" in which there is a tension between values such as "creativity" and "objectivity."

090. Values in a Technological Society  
 Morton Schagrin, Philosophy  
 State University College  
 Fredonia, NY 14063
- Philosophy  
 Advanced  
 Undergrad sci/nonsci majors

An examination of those features of a technological society that affect our ethical and political values. What values are threatened by a technological society, and which ones are supported by it. How values are determined and how they may be maintained.

091. Values, Systems, Society  
 Hans H. Rudnick, English;  
 Jon Muller, Anthropology; and  
 Risieri Frondizi, Philosophy  
 Southern Illinois University  
 Carbondale, IL 62901
- General Studies  
 Introductory  
 Undergrad

Application of general systems philosophy to ethical and moral decisions in technological society. Special emphasis is the individual's respect for the environment and social responsibility.

092. Women and Technology  
 Phillip L. Bereano, SMT Women Studies  
 Christine Bose, Sociology, Women Studies  
 University of Washington  
 Seattle, WA 98195
- Social Management of  
 of Technology  
 Intermediate  
 Grad nonsci majors

Designed for those interested in an investigation of the interaction between technology and women. Topics include: Comparing technological rationality with feminist modes of thought (focusing on values which are or could be applied in assessing technologies in order to evaluate their effects), the impact of industrialization and the division of labor in the home and labor force, technologies which particularly impact women (such as Ob/Gyn care), and investigating how the needs of women can be met through technological means.

#### Societal Perspectives

093. Sociology 460  
 David M. Freeman, Sociology  
 College of Humanities and Social Sciences  
 Colorado State University  
 Fort Collins, CO 80523
- Sociology  
 Advanced, upper division  
 Undergrad/grad sci/nonsci  
 majors

The analytical framework presented in the course reveals technology to be a central social phenomenon intimately affecting, and being affected by, social roles, power, status and values.

094. America and the Future of Man  
 Paul D. Saltman, Biology  
 Courses by Newspaper  
 University of California, Extension  
 La Jolla, CA 92093
- University Extension  
 Introductory  
 Undergrad, general adult  
 population

Emphasizes the impact of technology, biological and medical advances, and social change on our society, our value systems and the quality of life. Examines American experience and its implications for the future.

095. Contemporary Technological Society (P)  
Robert E. McGinn  
Stanford University  
Stanford, CA 94305
- Values, Technology and Society  
Undergrad
- The nature, significance, problems, and potentials of contemporary technological society, with special reference to America in the 1970's. Topics: technology and the transformation of cultures; evaluative frameworks for assessing social changes arising out of technological innovations; ethical and legal significance of biomedical and behavioral technologies; technology, science, and the emergence of modern consciousness; technology and the fabric of experience in pre-modern English village and 20th-century American life; and the politics of high technology business and government.
096. Knowledge, Science, and Society  
John J. Lally, Sociology  
Lehman College  
City University of New York  
Bronx, NY 10468
- Sociology  
Advanced  
Undergrad nonsci majors
- Discussion of: social construction of reality; relationships between culture, including knowledge and social structure; the cultural and social bases of science; science in totalitarian and democratic societies; science in the university, in industry, and in government; the social process of scientific discovery. Selected ethical problems concerning science in modern society.
097. Law and Society  
Marilyn Gerber, History  
California State College  
Dominguez Hills, CA 90747
- History  
Grad
- Consideration of issues of values relating to science and society.
098. Nature, Technology and Society  
Henry J. Folse  
Department of Philosophy  
The College of Charleston  
Charleston, SC 29401
- Philosophy  
Introductory  
Undergrad
- An examination of philosophical problems arising from the impact of science and technology on contemporary society. Topics include the relation of technology to society and political systems, the place of the individual within a modern technocratic society, the influence of technology on the human view of nature, the question of human values and scientific knowledge.
099. Philosophy and Public Affairs  
Eben Moulton, Deborah G. Johnson,  
and Donna McKernan  
Old Dominion University  
Norfolk, VA 23508
- Philosophy  
Introductory  
Undergrad
- A study of such contemporary moral issues as war, punishment, discrimination, sex, the obligation of scientists, biomedical technology.
100. Philosophy, Science and Modern Culture  
Ronald L. Hall and James Von Frank  
Francis Marion College  
Florence, SC 29501
- Philosophy  
Advanced  
Undergrad
- A philosophical examination of the nature and scope of the scientific enterprise and its place in modern culture. Discussion of the impact of science on ethics, religion and society.

101. Problems of Man in the Modern World Social Science  
Forrest McCready Introductory  
Blue Ridge Community College Undergrad  
Weyers Cave, VA 24486
- A survey of contemporary social, political, and economic problems related to industrialization, urbanization, the role of government, national and international tensions.
- 101A. Problems of Technological Society Political Science  
Walter B. Mead, Political Science Advanced  
Illinois State University Undergrad  
Normal, IL 61761
- Study of the impact of technology as it affects values, life styles, politics, privacy and the problem of technology becoming "master" rather than "servant."
102. The Role of Science in Advanced Industrial Societies History of Science  
Donald deB. Beaver Junior and senior  
Williams College Undergrad  
Williamstown, MA 01267
- The dependence of modern societies on scientific knowledge and technology, and the problems engendered by this dependence.
103. Science and Civilization History  
James M. Swanson, History Advanced  
University of South Florida Undergrad/grad sci/nonsci  
Tampa, FL 33620 majors
- A study of the interrelationship of science and society with emphasis on science as a social activity with moral and ethical implications.
104. Science and Society Chemistry  
Sr. Marian Jose Smith Introductory  
College of St. Elizabeth Undergrad nonsci majors  
Convent, NJ 07961
- A multidisciplinary course which presents some problems of contemporary life in such a way that the student understands the influence chemistry and related sciences have on his life. An examination of the values pertinent to some scientific problems.
105. Science and Society Science/Sociology  
Roland Chapdelaine, Biology Introductory  
Mark Canfield, Sociology Undergrad sci/nonsci majors  
Howard Community College  
Columbia, MD 22044
- Students learn principles necessary to evaluate developments in such areas as: genetics, cybernetics, environmental pollution, energy and computer technology.
106. Science and Society Physics  
H. Priestley, Physics; L. Factor, Philosophy; Advanced  
and J. Fitzgerald, Sociology Undergrad sci/nonsci majors  
Knox College  
Galesburg, IL 61401
- Focuses on the importance of (1) value judgments, (2) the need for many inputs (science-technology, social, political, economic) in viable solutions to technology-based social problems. Social responsibilities of scientist is also an integral component of the course.

107. Science and Society  
 Robert E. Kohler and Darryl Chubin  
 History and Sociology of Science  
 University of Pennsylvania  
 Philadelphia, PA 19104  
 History and Sociology of Science  
 Introductory  
 Undergrad sci/nonsci,  
 Wharton School of Business
- Historical and sociological views of modern science as a cultural activity. The community of science, its ideology, and the policy and ethical problems of scientific knowledge and scientific experts in a complex society.
108. Science and Society  
 Arthur A. Adams III, Physics  
 Virginia Military Institute  
 Lexington, VA 24450  
 Philosophy  
 Advanced  
 Undergrad sci/nonsci
- An examination of the cultural, technological and social impact of science on society, with emphasis on energy sources, world resources, population and the spread of nuclear weapons. Other topics center around the ethical and moral dilemmas brought on by modern science.
109. Science, Technology and Human Values  
 Sr. Ann Gertrude, Chemistry  
 and Sr. Colman, Biology  
 Ursuline College  
 2600 Lander Road  
 Cleveland, OH 44124  
 Science  
 Introductory  
 Undergrad nonsci
- A study of selected areas in the physical and biological sciences and the relationships among science, technology, and social change. Emphasis is on future science and social values.
110. Science, Technology and Society  
 Philip M. Ogden, Physics, et al  
 Roberts Wesleyan College  
 2301 Westside Drive  
 Rochester, NY 14624  
 Interdisciplinary Studies  
 Introductory  
 Undergrad
- An introduction to the general nature of scientific activity and to the nature of social problems associated with scientific and technological developments. Consideration is given to the philosophical, moral and ethical implications of scientific and technological activity.
111. Science, Technology and Society  
 Barrett Potter, Social Science  
 Agricultural and Technical College  
 State University of New York  
 Alfred, NY 14802  
 Social Science  
 Introductory  
 Undergrad sci/nonsci majors
- A survey of the growth and impact of science and technology upon American society and culture. Beginning with the nineteenth century, the course emphasizes scientific and technological changes and the problems associated with these developments in industry, ecology, human values.
112. Seminar in Social Values  
 Thomas M. Osborne  
 Wheaton College  
 Norton, MA 02766  
 Sociology  
 Advanced  
 Undergrad
- Approaches to the composition and study of social values in their application to social interaction. Place of values in technologically advanced society.

113. Seminar: Technology and Society Religion/Physics  
 C. Keith Boone, Religion  
 and David Anderson, Physics  
 Oberlin College  
 Oberlin, OH 44074  
 Advanced  
 Undergrad

A topical seminar in which a number of issues ranging from nuclear energy to bio-medical technology, are discussed and value implications drawn out.

114. The Sociology of Science and Technology Sociology  
 James Foreman, Sociology  
 Marian College  
 45 South National Avenue  
 Fond du Lac, WI 54935  
 Advanced  
 Undergrad

An analysis of how the impact of science and technology have influenced the values and behavior of individuals in modern society; science is examined in its institutional as well as conceptual forms.

115. Technology and Social Values Philosophy  
 James Fisher, Philosophy  
 University of Santa Clara  
 Santa Clara, CA 95053  
 Advanced  
 Undergrad

A study of technology from the following viewpoints: The context of technology (fundamental human values); the nature and goals of technology; the promise of technology and its associated threats; human problems in which technology seems implicated; and the relation of philosophy of technology to some traditional philosophical problems.

116. Technology and Society Sociology  
 Julian T. Euell, Sociology  
 Ithaca College  
 Ithaca, NY 14850  
 Undergrad sci/nonsci

Objectives will be to respond to the following issues: (1) What sorts of understanding can we have about how technology and social processes relate to one another; (2) what values, beliefs and ways of thinking create contexts for new technology; (3) how can new technology present opportunities to create different social organization.

117. Technology and Society GSM  
 Julius Brown and George Arnold,  
 Engineering  
 Southern Illinois University  
 Edwardsville, IL 62026  
 Introductory  
 Undergrad

Interaction of technology and society with emphasis on technology's impact on the organization of society, ethical and moral aspects, assessment, forecasting, effects on emerging nations. Some topics considered: Pollution, energy, world food distribution, population control, technology, decision-making.

118. Technology and Society Advanced  
 Team taught (Contact George Lindauer)  
 Speed Scientific School  
 University of Louisville  
 Louisville, KY 40208  
 Undergrad/grad

Examines the impact of technology on today's society from the social systems, political structure, economic systems and ethical viewpoints.

119. Technology and Society  
 George Hankins, Engineering  
 Larry Cross, Sociology  
 Wright State University  
 Dayton, OH 45421

Engineering/Sociology  
 Advanced  
 Undergrad sci/nonsci majors

Study of the interactions of technological developments and human values and identification of patterns and trends in developments of technology.

120. Technology in Contemporary Western Culture  
 David C. Botting, Humanistic Social Studies  
 University of Washington  
 Seattle, WA 98195

Humanistic Social Studies  
 Advanced  
 Undergrad sci, engineering,  
 and architecture majors

An examination of the impact of technology on the physical and social environment of contemporary society, focusing on social change, values and institutions.

Human Identity (Human Nature)

121. Biosocial Evolution of Man  
 Michael Kamrin, et al  
 Michigan State University  
 East Lansing, MI 48824

Natural Science  
 Introductory  
 Undergrad nonsci majors

Man's current understanding of himself and his beliefs as products of biological and cultural evolution. Implications for man's future.

122. The Challenge of Technology: Philosophically Considered  
 Peter Pezzolo  
 Kean College of New Jersey  
 Union, NJ 07083

Philosophy  
 Advanced  
 Undergrad

Consists of a chapter in the history of philosophy which is only now being written: Is technology compatible with human autonomy and spontaneity? Is the control of nature possible without the death of the 'natural'? Is technological progress human progress?

123. Changing Concepts of the Universe  
 Michael Kamrin, et al  
 Michigan State University  
 East Lansing, MI 48824

Natural Science  
 Introductory  
 Undergrad nonsci majors

Man's attempts to understand the universe and his place within it. The interaction between scientific concepts and the beliefs and values of the culture in which they are proposed.

124. Cosmologies and Worldviews (P)  
 Clifford Josephson, English and  
 John R. Burke, Physics and Astronomy  
 San Francisco State University  
 San Francisco, CA 94.32

NEXA  
 Introductory  
 Undergrad sci/nonsci,  
 humanities and arts majors

In every era, mankind has established correspondences between concepts of the universe and concepts of self and society. Course establishes the extent and implications of these correspondences in pre-Columbian, Renaissance and modern cultures.

125. Dimensions of Self and Mind Philosophy  
 Jacquelyn A. Kegley, Philosophy  
 California State College  
 Bakersfield, CA 93309  
 Advanced  
 Undergrad sci/nonsci majors

A critical analysis of various concepts of self-mind and person and discussion of the impact of technology and science on our notions of self.

126. Freedom in the Modern World Philosophy  
 Helen J. John, Philosophy  
 Trinity College  
 Washington, D.C. 20017  
 Introductory and Advanced  
 Undergrad/grad sci/nonsci  
 majors

Science and man's freedom, personal identity in the new social order; technological control and human values; the existential protest in behalf of freedom and responsibility.

127. Human Nature and Human Values NVS  
 Irving G. Foster, Physics  
 Eckerd College  
 St. Petersburg, FL 33733  
 Advanced  
 Undergrad sci/nonsci majors

Considers the questions: Are the values of our Western culture compatible with 20th century scientific views of the nature of man? To What extent have our modern scientific views of man changed the traditional value system of Western culture?

128. Human Nature and Society Philosophy  
 James Boston  
 Hood College  
 Frederick, MD 21701  
 Introductory  
 Undergrad

A critical analysis of selected philosophical problems concerning the nature of human beings and society. Such problems as freedom and responsibility, education, the state, technology and the family will be considered.

129. Human Nature, Human Intervention, and Human Development Justin Morrill College  
 James E. Trosko  
 Department of Human Development  
 and Justin Morrill College  
 College of Human Medicine  
 Michigan State University  
 East Lansing, MI 48824  
 Introductory  
 Undergrad nonsci majors

An examination of historical views of human nature and an evaluation of agreement or conflict with various recent scientific evidence. New scientific models of human nature such as nature and nurture, cybernetic, hierarchical or systems, bio-cultural evolutionary will be discussed.

130. Humanistic Psychology Psychology  
 John Mahoney, Psychology  
 Virginia Commonwealth University  
 Richmond, VA 23284  
 Advanced  
 Undergrad/grad

Study of the impact of science on our assumptions about the world, human society and the individual.

131. Ideas of Race in Science and Society (P)  
 Diane Johnson, Letters and Science;  
 William Van Deburg, Afro-American Studies  
 Edward Daub, Engineering  
 University of Wisconsin  
 Madison, WI 53706  
 Afro-American Studies/  
 General Engineering,  
 Introductory  
 Undergrad
- An examination and analysis of the relationship between intelligence and race. History of scientific concepts of race and of the relationship between scientific theory and racism.
132. Man's Nature  
 Staff (Contact Andrew McClary)  
 Michigan State University  
 East Lansing, MI 48824  
 Natural Science  
 Introductory, Honors  
 Undergrad
- Various issues confronting modern man in his attempt to understand his biological self. Emphasis on the role that science can play in helping to resolve these issues.
133. Modern Man and Science  
 James W. Felt and James G. Fisher  
 Department of Philosophy  
 University of Santa Clara  
 Santa Clara, CA 95053  
 Philosophy  
 Introductory  
 Undergrad sci/nonsci majors
- An examination of the impact of science on the way modern man views himself and his world. Toward a human reassessment.
134. The Newtonian Revolution (P)  
 Edwin Nierenberg, English and  
 David Meredith, Mathematics  
 San Francisco State University  
 San Francisco, CA 94132  
 NEXA  
 Advanced  
 Undergrad sci/nonsci,  
 humanities and arts majors
- The impact of Newtonian science and method on eighteenth century society, literature, art and philosophy with special emphasis on changing conceptions of human nature. The origin of the modern technological world.
135. Psychological Research and Christian Belief  
 David Myers  
 Hope College  
 Holland, MI 49423  
 Interdisciplinary Studies  
 Introductory  
 Undergrad
- Examines human nature from scientific and theological perspectives.
136. The Scientific Dimension of Life  
 Richard A. Leo, Physics, et al  
 Grove City College  
 Grove City, PA 16127  
 Science  
 Introductory  
 Undergrad sci/nonsci majors
- An endeavor to assist the student to gain knowledge and appreciation of the role of science in the past and present, and to learn how science has changed the way in which man views the universe, the phenomenon of life and the nature of man.

137. Self and Society Sociology  
James E. Gallagher, Sociology  
University of Maine  
Orono, ME 04473  
Introductory  
Undergrad
- An investigation into the development of self concept in industrialized society.
138. Social Philosophy Philosophy  
Robert Coburn, Philosophy  
University of Washington  
Seattle, WA 98195  
Advanced  
Undergrad/grad sci/nonsci  
majors
- Focuses on philosophical issues concerning liberty and justice. Specific topics may include technology assessment, privacy, the right to die, and the allocation of resources to save lives.
139. Split Brain/Split Culture? (P) NEXA  
George Araki, Biology and  
Anita Silvers, Philosophy  
San Francisco State University  
San Francisco, CA 94132  
Advanced  
Undergrad sci/nonsci,  
humanities and arts majors
- An investigation of how biological, psychological, conceptual and cultural factors in the development of consciousness are integrated in individuals and collectively within society. Examination and evaluation of dualisms such as right brain-left brain, animal-human, intuition-reason, art-science and east-west.
140. Technology and the Future of Man Philosophy  
William B. Jones, Joong Fang and  
R. Baine Harris, Philosophy  
Old Dominion University  
Norfolk, VA 23508  
Advanced  
Undergrad/grad
- A philosophically oriented analysis of the nature of man and his place in the universe with special attention to the role of the practical arts and crafts and technology generally both in the historical development of man and in the present and future course of human affairs. Varies with instructor.
141. Technology and the Individual Philosophy  
Walter L. Fogg  
Northeastern University  
Boston, MA 02115  
Introductory  
Undergrad sci/nonsci majors  
med students
- The tensions between humanism, its values and beliefs and the accelerating changes of modern technological society. Issues are the relation of technology to human freedom and privacy, the effects of "future shock" upon the individual, the possibility of the tyranny of a technological elite, and the future prospects for humanity.
142. Technology and Virtue (P) Philosophy  
Demetrius J. Hadgopoulos  
Department of Philosophy  
University of Oklahoma  
Norman, OK 73019  
Introductory  
Undergrad
- The course is designed to show the impact of technology on traditional conceptions of the good man. It emphasizes technology's relation to an ethics of virtue, being, character, or ideals in comparison to an ethics of duty, doing, action and principles.

143. Technology, Freedom and the Nature of Man  
 Robert C. Schultz and Frank Seeburger, Philosophy  
 University of Denver  
 Denver, CO 80208
- Philosophy  
 Intermediate  
 Undergrad sci/nonsci majors,  
 law students

The deepening crisis in man's relation to his natural, technological and social environments invites attention by philosophers who try to understand the predicament, as well as to help present value priorities in the quest for a human life worth living on this earth. Specific topics: the meaning of technology, the concept of nature, value aspects of the energy crunch, the growth ethic, and others.

144. Values and Natural Science (P)  
 Robert R. Orpinela  
 Technology and Society  
 Raymond College  
 University of the Pacific  
 Stockton, CA 95211
- Technology and Society  
 Undergrad, law, sci/nonsci  
 majors

An examination of some of the important ways in which the natural sciences have brought about new understandings of man (especially those tendencies congruent with a more humanistic understanding of man) and hence of the nature of value.

#### Biology and Human Affairs

145. Bioethics  
 Virginia Dix, Biology and Physical Science  
 C. C. Thomas, Philosophy and Religion  
 Fayetteville State University  
 Fayetteville, NC 28301
- Interdisciplinary  
 Advanced  
 Undergrad

Designed to focus attention on the biological nature of man, his ethical values, and the relationship to man's survival. Through assigned readings, discussions and lectures, students will address such topics as: Human identity, quality of life, heredity and environment in shaping man's nature.

146. Bioethics (P)  
 Thomas A. Shannon and Bruce A. Langdon  
 Worcester Polytechnic Institute  
 Worcester, MA 01609
- Humanities  
 Introductory  
 Undergrad sci majors

An evaluation of the social impact of technology in the areas of life sciences, biomedical engineering and chemistry. The focus is on human values in these areas and how they are affected by technological developments.

147. Biological Perspectives  
 Russell Rulon, Biology  
 Luther College  
 Decorah, IA 52101
- Biology  
 Grad

A study of the nature of the life process with an emphasis on the philosophical, ethical, political and economic implications of modern biological knowledge.

148. Biological Revolution and the Ethical Implication  
 Donald R. Ramage and Huston M. Awalt  
 Belmont College  
 Nashville, TN 37203
- Biology  
 Introductory  
 Undergrad

Introduction to contemporary societal problems resulting from technological advances (organ transplants, abortion) and how people go about making these decisions.

149. Biology and Contemporary Ethical Issues NSC  
 William H. Volker, Biology  
 Thomas More College  
 Fort Mitchell, KY 41017  
 Introductory  
 Undergrad nonsci majors

A scientist surveys and interprets the present and predictable, future state of scientific studies to assist participants in making ethical judgments concerning controversial contemporary scientific matters, for example, fertility control, genetic engineering, drug use, abuse, experimentation.

150. Biology and Human Affairs Biology  
 George H. Kieffer, Ecology, Ethology and Evolution  
 School of Life Sciences  
 University of Illinois  
 Urbana, IL 61801  
 Introductory  
 Undergrad nonsci majors

Goal is to communicate an attitude labeled "biological awareness." Students are exposed to a variety of areas where biology has a significant input or interface. Special emphasis is placed on the value questions raised by these relationships.

151. Biology and Human Values Biology  
 Janice C. Kemp and Larry Stewart, Biology  
 St. Mary's College  
 Notre Dame, IN 46556  
 Introductory  
 Undergrad nonsci majors

An exploration of biological problems of vital social and ethical concern. The course relates the concepts of the biological sciences to the student's general experience in life.

152. Biology and Human Values Biology  
 Thomas P. Fondy, Biology  
 Syracuse University  
 Syracuse, NY 13210  
 Introductory  
 Undergrad nonsci majors

Biological topics of vital social and ethical concern: Biology and the human condition, threats to survival, future of humankind, nature and meaning of man.

153. Biology and Society Biology  
 Thomas Butterworth, Biology  
 Western Connecticut State College  
 Danbury, CT 06810  
 Introductory  
 Undergrad sci/nonsci majors

An investigation of ethical and social implications of technological developments and scientific knowledge, with exploration of alternative solutions to ongoing problems in food, energy, settlements and environment. Topics considered: Genetic engineering, over-population, aging and dying, environmental pollution, quality of life.

154. Frankenstein Revisited: Bioethics and the Future of Man Comparative Literature/  
 Newton Press, Zoology and  
 Susan Skelton, Comparative Literature  
 University of Wisconsin  
 Milwaukee, WI 53201  
 Introductory  
 Undergrad

Study of the cultural, ethical and aesthetic implications of biological technology, genetic engineering, population control, social predestination, and human ecology.

155. Genetics and the Future of Man  
Paul Homsher, Biology  
Old Dominion University  
Norfolk, VA 23508
- Biology  
Introductory ✓  
Undergrad
- Trends in genetics, possible social, moral, biological effects on man.
156. Man Adapting  
Alice Hayes, Natural Science;  
Jo Hays, History; and M. Andre, Natural History  
Loyola University  
Chicago, IL 60626
- Natural Science  
Introductory  
Undergrad
- Presentation of some current scientific topics from a biological base. The relationship of man to nature in various social, cultural and ethical situations will be considered informally. Sequence and emphasis in discussion topic selection is determined by student preference. Some topics explored are genetics, race, evolution, disease, aging, drugs, population control.
157. Man, Nature and Society  
Paul I. Germann, Biology  
College of St. Thomas  
2115 Summit Avenue  
St. Paul, MN 55105
- Biology  
Introductory  
Undergrad nonsci majors
- Concerned with biological principles of social and ethical problems in today's society. Discussion of the latest science (biological) advances and how these often involve value judgments in establishing priorities. Course attempts to teach the scientific laws and principles involved in areas where political, social, legal or ethical decisions must be made.
158. Newer Developments in Biological Science  
Thomas Butterworth, Biology  
Western Connecticut State College  
Danbury, CT 06810
- Biology  
Advanced  
Grad
- Exploration of recent scientific and technological developments in biological sciences and their impact on values, social structures and environment.. Topics include genetic engineering, overpopulation, aging and death, behavior modification.
159. Senior Seminar  
J. K. Crissman, Jr., Biology  
Wabash College  
Crawfordsville, IN 47933
- Biology  
Seniors  
Undergrad sci majors
- Required of all biology majors. Designed to: (1) promote skills in library research and analysis of scientific literature, (2) promote communication skills, (3) examine the philosophy, methodology and certain unifying concepts in biology and (4) investigate the ethical and social significance of some newly emerging issues in biology.
160. Social and Ethical Aspects of Biology  
S. J. Coward  
Department of Zoology  
University of Georgia  
Athens, GA 30602
- Zoology  
Advanced  
Undergrad sci majors
- Content includes death, genetic engineering, population control, cancer as environmental disease, behavior control, man's impact on global ecosystem.

161. Social Issues in the Life Sciences  
 George H. Kieffer, Ecology, Ethology and Evolution  
 School of Life Sciences  
 University of Illinois  
 Urbana, IL 61801

Biology  
 Advanced  
 Undergrad/grad sci majors

Three aspects: (1) Survey of recent developments in biology and the applications of biological knowledge to the social setting, (2) identification of the ethical components deriving from the "new biology," and (3) analysis of these components to arrive at ethically valid courses of action for the individual and for society.

#### Historical Perspectives

162. The Future of Technology  
 Mike Williams, Interdisciplinary  
 Aquinas College  
 Grand Rapids, MI 49506

Social Science  
 Introductory  
 Undergrad

An overview of the history of technological developments and the impact of these on contemporary life, especially focusing on the interrelationship with human values.

163. History of the American Engineer (P)  
 Terry S. Reynolds  
 Man, Technology and Society  
 University of Wisconsin  
 Madison, WI 53706

General Engineering  
 Advanced  
 Undergrad sci/nonsci majors

A survey of the evolution of technology in America and the emergence of the various engineering specialties and the professional engineering societies.

164. Impact of Science on History  
 Paul W. Sharkey  
 University of Southern Mississippi  
 Hattiesburg, MS 39401

Humanities/Philosophy  
 Introductory  
 Undergrad sci/nonsci majors

An introduction to the historical development of science from the pre-Socratics to the present with special emphasis on the relation to presuppositions and implications of science concerning issues of human value.

165. Machine in America  
 Carroll Purseil, History  
 University of California  
 Santa Barbara, CA 93106

History  
 Introductory  
 Undergrad/grad sci/nonsci  
 majors

Social history of devices and techniques from handicraft to automation. Emphasis on social change and impact of technology on American values and institutions.

166. Men and Machines in American Technology (P)  
 Raymond Merritt, History and  
 A. Fattah Shaikh, Mechanics  
 University of Wisconsin  
 Milwaukee, WI 53201

History  
 Introductory  
 Undergrad

Critical biographical study of notable inventors, industrialists, and engineers with emphasis on their value systems and corresponding relationships to technology.

167. Opportunity and Danger in Biology  
 William Chesbono, Biology  
 University of New Hampshire  
 Durham, NH 03824  
 Humanities  
 Introductory  
 Undergrad
- The effects of past scientific and technical developments on history, customs, quality of life and the thinking of humanity. Discussion and evaluation of the desirability and possible inevitability of genetic manipulation for industrial and medical purposes.
168. Rise of Science and Human Values  
 Frank Schneider, Math and Physics  
 Nelson Bard, History  
 Davis and Elkins College  
 Elkins, WV 26241  
 Integrated Sequence  
 Advanced  
 Undergrad - general education requirement
- A study of the impact of scientific ideas and technology on western value structures, beginning with the scientific revolution of the 16th and 17th centuries, through industrialization, Maxwell, Einstein and into contemporary problems.
169. Science and Human Values  
 E. Manier, Philosophy  
 University of Notre Dame  
 Notre Dame, IN 46556  
 Philosophy  
 Introductory  
 Undergrad sci/nonsci majors
- Deals with methods for describing and analyzing the aesthetic, ethical, political and religious dimensions of key episodes in the history of science (Galileo, Darwin, Watson and Crick) and the scientific and technical dimensions of ethical and political problems (energy crisis, race and I.Q.).
170. Science and Society  
 Jeanne H. Stevenson, History  
 College of Notre Dame of Maryland  
 Baltimore, MD 21210  
 History  
 Advanced  
 Undergrad sci/nonsci majors, continuing education
- Examines the impact of the major scientific advances on Western civilization from the Copernican Revolution through the 20th century. The distinction and historical significance of pure science and applied science is examined and the moral issues raised by science in contemporary society are explored.
171. Science and Society  
 Gale Edward Christianson, History  
 Indiana State University  
 Terre Haute, IN 47809  
 History  
 Introductory  
 Undergrad, all majors
- Broad study of major scientific and technological developments from 1500 to the present in an effort to promote a deeper historical understanding and appreciation of the role played by the scientist and his work in society. Topics include Darwinian revolution, psychoanalysis, nuclear energy, and genetic engineering. Special emphasis is placed on the social, intellectual, and ethical implications of modern science and technology.
172. Social History of American Technology to the Civil War  
 Nathan Miller, History  
 University of Wisconsin  
 Milwaukee, WI 53201  
 History  
 Introductory  
 Undergrad
- A study of technological innovations in connection with the objectives, values and fantasies of Americans in a society of potential abundance.

173. Technology and Western Civilization History of Science  
 Edwin Layton Introductory  
 Department of Mechanical Engineering Undergrad sci majors  
 University of Minnesota  
 Minneapolis, MN 55455

A history of the role of technology in Western civilization from the earliest times to the present, with emphasis upon the socio-cultural role of technology, including emphasis upon the ethical and value implications of technology.

#### Futures

174. Alternative Futures University Studies  
 R. L. Hoffman, University Studies Introductory  
 North Carolina State University Undergrad sci/nonsci majors  
 Raleigh, NC 27607

Possible alternative futures as well as the cutting edge of the present are placed in perspective with stress placed upon the nature and likelihood of various alternatives. Special emphasis is given to the methodology and limitations of forecasting, selected futurist issues, and to the interactions between present and possible future technologies and human values.

175. Alternative Futures (P) Humanities  
 H. Skolimowski Advanced  
 Department of Humanities Undergrad/grad  
 University of Michigan  
 Ann Arbor, MI 48109

A study of human problems in a highly developed technological society. A critical examination of the philosophic premises underlying contemporary society, selected proposals for alternative societies, and the philosophic arguments justifying such alternatives.

176. Alternative Futures (P) Humanities  
 A. Aldridge Advanced  
 Department of Humanities Undergrad  
 University of Michigan  
 Ann Arbor, MI 48109

In this interdisciplinary course we assess some of the critical human dilemmas built into highly developed technological societies. We review a variety of theories about the nature of such societies, particularly concentrating on the myths and values underlying their workings. We examine proposals for alternatives with a hard look at the humanistic implications of such alternatives.

177. Bioethics - Bridge to the Future General Studies  
 Ira J. Lough Introductory  
 Department of Biology Undergrad nonsci majors  
 Rhode Island College  
 Providence, RI 02908

A consideration of the future of man by considering the interwoven themes of human progress and human survival, the obligation to the future, the control of technology, the relation between order and disorder, the concept of dangerous knowledge and the need for interdisciplinary effort.

178. Biological Dimensions of the Future Biology  
 Charles G. Grimwood, Biology  
 Marymount College  
 Salina, KS 67401  
 Introductory  
 Undergrad sci/nonsci majors
- Students are sensitized to values and ethical questions facing us today in areas of applied life science primarily biomedicine and human ecology. Current trends in biology and our society's view of technology are projected into probable or preferable futures, emphasizing our value choices as individuals.
179. The City in the World of the Future (P) Urban Affairs  
 Gary Gappert and Peter Pflaum  
 Department of Urban Affairs  
 University of Wisconsin  
 Milwaukee, WI 53201  
 Advanced  
 Undergrad
- Methods of futures research in the context of urban problems. Interdisciplinary exploration of social aspects of technology related to public policy and urban development.
180. Environment, Technology and the Future Nondepartmental, General  
 Thomas H. Thompson, Philosophy and Religion  
 University of Northern Iowa  
 Cedar Falls, IA 50613  
 Education pilot program  
 Introductory  
 Undergrad
- An introductory survey of problems of the future, with some stress on the evidence for optimistic and pessimistic (neo Malthusian and technology-and-growth) models of alternate futures. Value and cultural issues of the future. Content includes population dynamics, energy, other resources.
181. Futuristics EDAD  
 John W. Hall  
 Department of Education  
 St. Lawrence University  
 Canton, NY 13617  
 Introductory and advanced  
 Undergrad/grad
- There are two courses which deal with problems one encounters when seeking a set of better questions about life. Careful attention to current trends, projections and scientific and technological break-throughs. Emphasis placed on constructing alternative views on scenarios of possible future developments.
182. The Human Prospect C/S  
 William Davis, Biology  
 University of California  
 Santa Cruz, CA 95054  
 Introductory  
 Undergrad nonsci majors
- Teaches principles essential in understanding the future: Physical, biological, ecological and evolutionary concepts; principles and limits of energy and resource use; natural and social history of industrialism. Using these tools, one view of the future is explored, involving the depletion of energy and resources followed by a transition of humankind to a higher evolutionary state.
183. Implications of Future Technology Natural Science  
 Hilton Weiss  
 Bard College  
 Annandale-on-Hudson, NY 12508  
 Introductory  
 Undergrad nonsci majors
- Students develop an understanding of some current areas of scientific research and the extrapolation of these concepts into future technological developments. Social, cultural, and moral implications of these developments will be discussed to encourage an intelligent appraisal of the merits of various possible research directions. Topics covered will include computers, genetics, nuclear energy, and others.

184. Philosophy and Alternative Futures  
 Robert A. Macoskey  
 Department of Philosophy  
 Slippery Rock State College  
 Slippery Rock, PA 16057
- Philosophy  
 Advanced  
 Undergrad, general public

An interdisciplinary approach to future projections in the major areas of human inquiry: Natural, social and behavioral sciences, education, environmental studies, the arts and humanities. An examination of the philosophical assumptions underlying these projections with a view to critiquing, comparing and integrating.

185. Philosophy and Technology  
 James Garson, Philosophy  
 University of Notre Dame  
 Notre Dame, IN 46556
- Philosophy  
 Undergrad

A discussion of the major technological innovations that are likely in the next 25 years. The use and abuse of computers. Technologies for genetic manipulation, energy production and mental control. What is the proper role of society in developing technology?

186. Progress or Disaster: What Is Mankind's Future?  
 Mark J. Engebretson, Physics  
 Augsburg College  
 Minneapolis, MN 55451
- Physics  
 Introductory  
 Undergrad sci/nonsci majors

The doctrine of progress, in its various forms, has greatly influenced both popular and sophisticated understandings of science. In order to correctly view the impact of science and technology today and in the future, we must understand the constellation of religious beliefs and value assumptions associated with their use.

187. Science and the Future  
 Capt. P. R. Myers, Physics  
 United States Air Force Academy  
 United States Air Force Academy, CO 80840
- Physics  
 Introductory  
 Undergrad

An analysis of the relationship of science to current and future problems. Critically examines the potential applications of modern science to these problems and the general effect of possible solutions on the armed forces, industry, and society.

188. Science and the Future  
 George T. O'Hearn  
 Department of Education  
 University of Wisconsin  
 Green Bay, WI 54302
- Education  
 Advanced  
 Undergrad

Science and technology have become potent forces, reshaping human values and culture, and permitting the man-made world to evolve. The social and cultural impact of selected developments in the physical and biological sciences will be examined as a model to be used in forecasting the future impact of today's scientific developments. Human values, potentials and constraints will be stressed.

189. Sociological Aspects of the Future  
 Gale Largey  
 Mansfield State College  
 Mansfield, PA 16933
- Sociology  
 Advanced  
 Undergrad

An examination of the socio-ethical issues that are emerging with the advancement of science and technology, especially in the area of medicine.

190. The Sociology of the Future  
 Donald E. Tarter, Sociology  
 University of Alabama  
 Huntsville 35807  
 Sociology  
 Advanced  
 Undergrad
- An introduction to the methods of technology assessment and forecasting and an attempt to assess potential impacts of new near-term technologies on political, economic, educational, family, and religious institutions.
191. Technological Culture and the Human Prospect (P)  
 Carolyn Iltis, Physics, et al  
 University of San Francisco  
 San Francisco, CA 94117  
 Natural Science  
 Interdisciplinary Program  
 Introductory  
 Undergrad
- Explores the impact of technology on the environment and human culture today, traces the historical and humanistic origins of our current patterns, assesses the implications of our technological trajectory for the future, and explores alternatives.
192. Technology, Survival and the Year 2000 (P)  
 Robert P. Morgan, Technology and Human Affairs  
 Washington University  
 St. Louis, MO 63120  
 Technology and Human Affairs  
 Introductory  
 Undergrad sci/nonsci majors
- An examination of the potential role of technology over the next 30 years in improving the standard of living and quality of life. Negative consequences of technology will also be assessed. Critical choices to be faced will be considered. Introduction to technology assessment and forecasting, futures research. Discussion of: What will life be like in the year 2000? Will there be enough food, shelter and energy to go around? Will the gap between rich and poor countries widen? Will climate changes and growing resource shortages effect changes in life style? Will 1984 have happened?
193. Toward the Year 2000  
 James Vinson, Physics  
 University of North Carolina  
 Asheville, NC 28804  
 Humanities  
 Introductory  
 Undergrad
- The study of possible alternative futures. After a short historical introduction, a study and discussion of the prospects for the future in technology, information and computers, biological technology, and resource development is undertaken. This study will provide the foundation for a more detailed look at computer simulation as a method of future research. Finally possible changes in social structure and lifestyles and the relationships between technology and human values will be studied.
194. Toward the Year 2000: Technology, Values and Society  
 T. Norton, Sociology and Warren Guy, Engineering  
 Lafayette College  
 Easton, PA 18042  
 Anthropology and Sociology  
 Introductory  
 Undergrad
- Course begins with the individual discussion of technology, values and society. These are interrelated in a dynamic system and then projected into the future.

#### Technology Transfer

195. Cultural Systems, Energy and Technology (P)  
 Stephen Auerbach, Anthropology and  
 Carl Romer, Energetics  
 University of Wisconsin  
 Milwaukee, WI 53201  
 Anthropology/Cultural and  
 Technological Studies  
 Introductory  
 Undergrad
- Study of the impingement of technology on social organization and relationships between cultural systems, energy, and technology.

196. Ethics and Social Science Sociology  
 Marlynn L. May, Sociology  
 Beloit College  
 Beloit, WI 53511  
 Advanced  
 Undergrad, social sci major
- Examines three levels of issues pertaining to science and values: (1) ethical concerns raised by social science theory and methodology, e.g. intrinsic, controlling images of man and social and political organization; (2) ethical concerns raised by the socio-cultural organization of the scientific community, its ethos, structure and process; (3) ethical concerns raised by the interface of science and society, in doing research e.g. treatment of subjects, choosing of research topics, funding, research designs and science interacting with policy-making and policy-makers.
197. Seminar in Technology and Social Change (P) Technology and Social Change  
 A. A. Fouad, Electrical Engineering  
 R. Van Iten, Philosophy and  
 L. Wilcox, Sociology  
 Iowa State University  
 Ames, IA 50011  
 Advanced  
 Grad
- An exploration of the problems arising from the impact of the transfer of technology on a society with special emphasis on a specific issue--receptivity of technology, adaption versus adoption, and others.
198. Technological Innovation and Social Change (P) Anthropology  
 Stephen Auerbach, Anthropology  
 University of Wisconsin  
 Milwaukee, WI 53201  
 Advanced  
 Undergrad
- Examination of several different types of technological changes taking place in various parts of the world. Social, cultural, environmental and economic implications are analyzed and alternative technologies examined.
199. Technology and Public Policy in Developing Countries (P) Political Science/General  
 Dennis L. Dresang, Political Science and  
 Edward P. Mikol, Mechanical Engineering  
 University of Wisconsin  
 Madison, WI 53706  
 Advanced  
 Grad
- This course seeks to provide the integrative experiences of the design of technical assistance programs wherein the interaction amongst technology, politics, moral, social and human issues must be understood, assessed and adequately provided for in an actual design project.
200. Technology and Social Change in Foreign Cultures (P) Technology and Social Change  
 A. A. Fauad, Electrical Engineering  
 R. Van Iten, Philosophy and L. Wilcox, Sociology  
 Iowa State University  
 Ames, IA 50011  
 Introductory  
 Grad
- To explore the impacts of the transfer of technology on a society; the essential features of technological change; the export, acceptance, adaptation and rejection of technological innovations; how the various cultural, social, economic, and political systems are affected by technology.

201. Technology in Developing Countries  
 David C. Botting, Humanistic Social Studies  
 University of Washington  
 Seattle, WA 98195  
 Humanistic Social Studies  
 Advanced  
 Undergrad sci, engineering,  
 architecture, arts and  
 sciences majors  
 Analyzes the alterations in societies of the developing countries resulting from the impact of technology on them, focusing on social change, values, and institutions; and examines the phenomenon of technological transfer.
202. Technology: International, Social and Human Aspects (P)  
 E. C. Pytlik, M. Rahman, Geography and  
 M. Warren, Anthropology  
 Iowa State University  
 Ames, IA 50011  
 Technology and Social Change  
 Introductory  
 Undergrad  
 To develop an understanding of the social, economic, and humanistic constraints and potentials involved in the international application of technology; to enable the student to relate his or her major discipline to the issues and problems involved in the transfer of technology.
203. Technology Transfer: Issues and Problems (P)  
 A. A. Fouad, Electrical Engineering  
 R. Van Iten, Philosophy and L. Wilcox, Sociology  
 Iowa State University  
 Ames, IA 50011  
 Technology and Social Change  
 Advanced  
 Grad  
 Explores the moral and practical issues in the transfer of technology to developing countries.
204. Third World Issues (P)  
 Wayne Bragg  
 Wheaton College  
 Wheaton, IL 60187  
 Social Science  
 Introductory  
 Undergrad sci/nonsci majors  
 Development and underdevelopment in historical and ethical perspectives, and examination of alternative approaches to aid and development.
205. Transnational Values and Technology (P)  
 John Koller, Philosophy, et al  
 Rensselaer Polytechnic Institute  
 Troy, NY 12181  
 Human Dimensions Center  
 Advanced  
 Undergrad sci/nonsci majors  
 Provides an intercultural and multidisciplinary view of the interactions between human values and technology. China, India, and Southeast Asia are studied in comparison with the United States, focusing on values, technologies, religious and philosophical ideas and norms, economic development, social and political organization and structure, and the development of science and technology.

1.02. Science/Technology and the Arts and Humanities

206. Aesthetic Value and Technology Humanistic Social Studies  
 Eugene C. Elliott, Humanistic Social Studies  
 College of Engineering, Loew Hall  
 University of Washington  
 Seattle, WA 98195  
 Introductory  
 Undergrad, architecture,  
 arts and science majors
- Nature of aesthetics; aesthetics in relation to other values--everyday living, in the fine arts, in the environment; technology, the economy, business; the good city.
207. American Literature and the Universe of Force (P) English/Health Science  
 Ronald Martin, English/Health Science  
 University of Delaware  
 Newark, DE 19711  
 Advanced
- Study of American literature of the early 20th century in the context of the science, scientists, and scientific philosophy of the era.
208. Creative Process in Science and the Humanities (P) English/Health Sciences/  
 T. Calhoun and G. Ruark, English and  
 M. Jain, Health Sciences/Chemistry  
 University of Delaware  
 Newark, DE 19711  
 Biology  
 Advanced  
 Undergrad/grad sci/nonsci  
 majors, pre med, nursing
- A multidisciplinary study of the creative process as exemplified by the methods, insights and techniques of analysis and discovery in selected areas of the scientific and humanistic disciplines. The particular ways that writers, philosophers, scientists and artists generate perceptions of man, nature and society will be a primary focus of the course. Additionally, close attention will be paid to the similarities and differences of the creative process in science and the humanities.
209. Creativity in Design Mechanical and Aerospace  
 Paul Braisted and Gordon Moore  
 Department of Mechanical and Aerospace  
 Engineering  
 University of Missouri  
 Columbia, MO 65201  
 Engineering  
 Advanced  
 Undergrad/grad, engineering  
 majors
- Identification and strengthening of attitudes and talents essential in design: Creative aspects and value considerations in design.
210. Einstein and Modern Literature Introductory  
 Alan J. Friedman, et al  
 Lawrence Hall of Science  
 University of California  
 Berkeley, CA 94720  
 Undergrad/grad nonsci majors
- The imagination of Albert Einstein created a new picture of time, space, and the physical universe. This course examines that new picture, and its influence on the general culture, especially the fiction of Lawrence Durrell, Thomas Pynchon, and Robert Coover. The value of physics as metaphor is discussed.
211. The Einsteinian Revolution (P) NEXA  
 Earl Friesen, Physics and Astronomy  
 San Francisco State University  
 San Francisco, CA 94132  
 Advanced  
 Undergrad sci/nonsci and  
 arts and humanities majors
- Exploration into relativity and quantum physics and literature to discover a new world of space, time, relationship and modes of observations.

212. Foundations of Knowledge in the Cultural and Natural Sciences (P) Graduate school  
Graduate level  
Grad sci/nonsci majors  
Fred Kersten, Humanism and Cultural Change  
University of Wisconsin  
Green Bay, WI 54302
- A multidisciplinary study of various aspects of the problems related to the nature and validation of knowledge in the cultural and natural sciences. The focus of the course is on the intellectual task of finding a common ground of mutual enrichment of the cultural and natural sciences.
213. Human Factors and Aesthetics in Design and Technology (P) Art  
Introductory  
Undergrad  
Michael Lacktman, Art  
University of Wisconsin  
Milwaukee, WI 53201
- An investigative study of cultural and aesthetic values and their related applications to technology and human factors in design.
214. Human Nature and the Impact of Science Literature, Science and Arts  
Advanced  
Undergrad/grad sci/nonsci majors  
John TerHaar, German and  
James Osburn, Chemical Engineering  
University of Iowa  
Iowa City, IA 52252
- Discussion based on the issues and ideas in eleven original works by humanists and scientists.
215. Humanistic and Scientific Thought Philosophy/Physics  
Introductory  
Undergrad sci/nonsci majors  
Matild Kamber and Bob McDonald  
Columbia College  
Columbia, CA 95310
- A study of the relationships between the sciences and the humanities and of major problems in the philosophy of science.
216. Interactions in Art and Science Honors  
Introductory, advanced  
Undergrad sci/nonsci majors  
Thomas Coohill, Biophysics and  
Pat Coohill, Art History  
Office of Academic Affairs  
Western Kentucky University  
Bowling Green, KY 42101
- Examines the relationship of art and science, which human values are pervasive in both fields of endeavor. Discussion of similarities of expression and impact of science research and aesthetic discovery are planned.
217. Interpretations of Technology in Literature (P) General Engineering  
Introductory  
Undergrad sci/nonsci and  
engineering majors  
Gretchen Schoff  
General Engineering Department  
University of Wisconsin  
Madison, WI 53706
- An examination of the world of modern science and technology as the literary artist sees it. A study of writers who have confronted and interpreted the implications of man's new creations, the computer, the spaceship, nuclear power, and biological manipulation.

218. Leonardo da Vinci: Art and Science (P) Art History/Health Science  
Maurice Cope Advanced  
University of Delaware Undergrad  
Newark, DE 19711

A seminar in the art, science, and technology of Leonardo da Vinci in the context of Renaissance thought.

219. Literature and Science (P) English/Health Sciences  
Heyward Brock, English Advanced  
University of Delaware Sci/nonsci majors  
Newark, DE 19711

A comparative examination of literature and science in several important philosophical, methodological, cultural and social aspects. The course involves the study of elementary philosophy of science and theory of literature to establish some fundamental comparative ideas about the creativity, method, and uses of each discipline; the study of topics in the history of science and literature to establish a sense of the cultural and social contexts of both endeavors; and the study of individual texts to discover the meanings and methods, the uses and the value-orientations by first-hand analysis.

220. Literature and Science in the Modern Age Literature  
John S. Zeigel, Literature Advanced  
Mesa College Undergrad, senior seminar  
Grand Junction, CO 81501

Literature is studied in relationship with science which affects the fine arts, social thought, and value theory. The contemporary fusion of interests between science and literature and its background in post-renaissance and romantic thought and literature will be studied against the history of traditional metaphysical differences.

221. Literature and Society: Clockwork Man -  
The Technology of Transcendence (P) Comparative Literature  
Susan Skelton, Comparative Literature Advanced  
University of Wisconsin Undergrad  
Milwaukee, WI 53201

Examination of images of mechanical objects, technological processes, and human beings in literature and of the potential significance to modern society of patterns and paradigms in the literary texts.

222. Literature and Society: Literature and Ecology (P) Comparative Literature  
Susan Skelton, Comparative Literature Advanced  
University of Wisconsin Undergrad  
Milwaukee, WI 53201

Examination of the interrelationships between literature and ecology, with special emphasis on the potential impact of literary texts on environmental concerns, the possible application of ecological principles to literary studies and the putative influence of moral, religious, and ethical values upon the shaping of attitudes and behaviors.

223. Literature and Technology: The Healing Art:  
Patient, Physician and the Technological Fix (P) Comparative Literature  
Susan Skelton, Comparative Literature Advanced  
University of Wisconsin Undergrad  
Milwaukee, WI 53201

Examination of literary images of the applications of medical technique and technology, the definition and interpretation of pathological syndromes, the role of social institutions, and the function of professional ethics in the treatment of physical and mental illness.

224. Literature, Art and Technology (P)  
Kathleen Woodward, English  
University of Wisconsin  
Milwaukee, WI 53201  
English  
Advanced  
Undergrad,  
Examination of the role of technology as the primary catalyst in the development of twentieth century avant-garde art and literature. Emphasis on the fruitful collaboration between art and technology in post-World War II art and artists in France and the United States.
225. Literature, Arts and Physics (P)  
Gerald Fisher, Physics and Astronomy  
Laura Margolis, Interdisciplinary and Innovative  
Science  
San Francisco State University  
San Francisco, CA 94132  
NEXA  
Advanced  
Undergrad sci/nonsci,  
humanities and arts majors  
Modern painting, literature and physics as analogous expressions of an underlying current in human thought. Evaluation of changes that occurred during the twentieth century in artistic and scientific ways of seeing and representing reality.
226. Machines Versus Humanity: The Changing Novel in the Age of Technology (P)  
Jack Zipes, German  
University of Wisconsin  
Milwaukee, WI 53201  
Comparative Literature  
Advanced  
Undergrad  
Dehumanization of humankind by technology as theme for the evolving novel. Emphasis on utopian and non-utopian perspectives.
227. Man and Machine  
M. J. Philp  
Anne Arundel Community College  
Arnold, MD 21012  
Humanities  
Introductory  
Undergrad  
Interdisciplinary investigation of impact technology on culture. Important developments in science and technology. Creative and destructive man-machine tension explored using works of art, architecture, music.
228. Man As Machine  
Leonard Wolf, English and  
Benjamin White, Psychology  
San Francisco State University  
San Francisco, CA 94132  
NEXA  
Advanced  
Undergrad sci/nonsci,  
humanities and arts majors  
Following the Industrial Revolution, the idea of the machine has dominated human consciousness and behavior. The notions of humanistic machines and mechanistic humans emerge in both literary imagery and psychological theory.
229. Man in the Modern World  
Robert B. Thornburg, English, et al  
Muhlenberg College  
Allentown, PA 18104  
Humanities  
Introductory  
Undergrad  
A team taught interdisciplinary course designed to analyze man in his contemporary condition through his perspectives and values, his art forms, and his social institutions. Lectures, discussion groups, laboratory sessions.

230. Man in Nature and Man and Nature in Literature (P)  
Peg Jackson, English, et al  
Northland College  
Ashland, WI 53806  
Environmental Studies  
Introductory  
Undergrad  
Man in Nature examines the complexities surrounding environmental issues at the same time that students practice reading and writing skills.
231. Mass Culture, Technology and Manipulation of Consciousness (P)  
Andreas Huyssen, German  
University of Wisconsin  
Milwaukee, WI 53201  
German  
Advanced  
Undergrad  
Study of the impact of technology and social change on "high" and "low" culture in 20th century mass society with emphasis on literature and the visual arts.
232. Mathematical Thought--Mathematics in Western Cultures  
Leonard S. Laws, Math and Science  
Southwestern College  
Winfield, KS 67156  
Mathematical Sciences  
Introductory  
Undergrad sci/nonsci majors  
Mathematical models that illuminate interrelationships in ethics, law, religion, art, music, literature, science, social science are discussed as are cultural forces that inhibit or stimulate mathematical thought.
233. Modern Philosophical Physics  
David A. Cornell, Physics  
Principia College  
Elsah, IL 62028  
Physics  
Advanced (freshman and soph  
w/approval of instructor)  
Undergrad nonsci majors  
Science and science fiction paperbacks serve as a basis for discussion of scientific discoveries, their impact upon human thought, and moral or ethical implications.
234. The Nature of Man and His Physical Environment  
W. F. LaForge, History, et al  
Delta State University  
Cleveland, MS 38733  
Honors  
Advanced  
Undergrad sci/nonsci majors  
The nature of man and his efforts to understand his physical environment through a study of selected literature and works of art.
235. Perspectives on Ultimate Reality  
John J. Gibbs, Humanities  
Moorhead State University  
Moorhead, MN 56560  
Humanities  
Introductory  
Undergrad nonsci majors  
Investigation of the nature of scientific method, the processes of thought in scientific inquiry and the comparison of this with methodology in the liberal arts, particularly in theological science.
236. Popular Culture and Technical Change in America  
David Wright  
Lyman Briggs College, Holmes Hall  
Michigan State University  
East Lansing, MI 48824  
Lyman Briggs College  
Intermediate  
Undergrad  
A study, using the materials of popular culture, of the ways in which technical change affects culture and the ways in which cultural mythology, values, and orders channel, modify or inhibit technical change.

237. Problems and Ideas Today: Science, Technology, and Literature  
Edward Stanulis, Humanities  
Michigan Technological University  
Houghton, MI 49931
- Humanities  
Introductory  
Undergrad sci/nonsci majors
- Interdisciplinary course relating literature, including science fiction, to science and technology.
238. The Promethean Mind: Explorations in Myth and Literature, Science and Technology, Prophecy and Human Values (P)  
Ihab Hassan, English  
University of Wisconsin  
Milwaukee, WI 53201
- English  
Advanced  
Undergrad/grad
- To give a sense of how mythological, literary, scientific and technological works articulate themselves as languages, as forms. How are they different, complementary or even similar? Thus, to raise the question of the creative process itself, its unity and diversity.
239. Quest for Utopia (P)  
Warne Holcombe and Gorman Beauchamp  
Department of Humanities  
University of Michigan  
Ann Arbor, MI 48109
- Humanities  
Introductory  
Undergrad nonsci, engineering majors
- Examination of notable utopian constructs, both fictional and experimental, in an effort to clarify fundamental obstacles to utopia and potentials for a more utopian world.
240. Science and Non-Science (P)  
Frank Blackford and Howard Brown  
College of Science in Society  
Wesleyan University  
Middletown, CT 06457
- Science in Society  
Introductory  
Undergrad sci/nonsci majors
- Comparison of scientific and non-scientific thought, roles of science and myth in societies. Discussion of practical and ethical issues in science and technology.
241. Science Fiction (P)  
Dennis M. Welch, Humanities  
Clarkson College  
Potsdam, NY 13676
- Humanities  
Advanced  
Undergrad
- Examines major science fiction works as to their intellectual, social, ethical, and esthetic significances (some of the texts include Frankenstein and The Time Machine). Discussion about why these works are so appealing, what they say about science and technology, their predictive importance, their impact of change and public policy, and their effect in creating a new mythology for humanity.
242. Science Fiction  
Kevin Larsen, English  
Kean College of New Jersey  
Union, NJ 07083
- English  
Introductory  
Undergrad sci/nonsci majors
- Study of major themes in the development of science fiction in short stories and novels from H. G. Wells to the present. (Bradbury, Campbell, Clarke, Pohl, and others.)

243. Science Fiction (P)  
A. Aldridge, D. Hughes and E. Shafter  
Department of Humanities  
University of Michigan  
Ann Arbor, MI 48109
- Humanities  
Introductory  
Undergrad, engineering majors
- Designed to introduce the student to major works of science fiction. Focus on modern and contemporary science fiction as a principal vehicle for the literature of ideas. Special emphasis is given to the myths and values attached to science and technology and the ways in which they have shaped science fiction in a variety of historical contexts.
244. Science Fiction: The Humanistic Base (P)  
C. L. Sanford, Humanities;  
Robert Anderson, Philosophy; and  
Dennis Livingston, Political Science  
Rensselaer Polytechnic Institute  
Troy, NY 12181
- Literature and Communications  
Introductory  
Undergrad
- Science fiction is related to major themes in literature and philosophy: The individual and society, man vs. nature, the meaning of consciousness, the journey archetype, utopia and anti-utopia. Sometimes issues of public policy.
245. Science in the Social World  
Hiram Bleecker, Physics  
State University of New York  
Cortland, NY 13045
- Science/Physics  
Advanced  
Undergrad/grad sci/nonsci majors
- An examination of the structure of knowledge, truth, proof, causality and value in the sciences and comparing these with their analogs in art, religion, philosophy and the social sciences.
246. Science in Utopia  
Daniel P. Jones, General Science  
Oregon State University  
Corvallis, OR 97331
- General Science  
Introductory  
Undergrad sci/nonsci majors
- Analyzes the attitude of society toward science and technology as reflected in the roles given science and technology by famous social critics in their view of utopian societies.
247. Science-Technology and Human Values  
Staff (Contact Andrew McClary)  
Michigan State University  
East Lansing, MI 48824
- Natural Science  
Introductory, honors  
Undergrad
- The nature and significance of science and technology in Western culture, with emphasis on their relationship to other creative activities, particularly those within the arts.
248. Scientific Ethics: A Literary Perspective  
Patricia McFate, English  
University of Pennsylvania  
Philadelphia, PA 19174
- History and Sociology of Science  
Intermediate, no prerequisites  
Undergrad sci/nonsci majors
- Viewpoints of the scientist and the writer of literature concerning the major problems affecting the health of citizens in the twentieth century.

249. Seminar in Science and Humanities Interdisciplinary  
Herschel Levine and Ralph Yulo Introductory  
Eastern Connecticut State College Undergrad sci/nonsci majors  
Willimantic, CT 06226
- An examination of the nature of the natural sciences and their relationships with the humanities. There is considerable emphasis on the biological roots of human behavior and human value in a technological society.
250. A Sense of the Earth in American Literature English/Literature Seminar  
Sr. Lucy Schneider, English Introductory  
Marymount College of Kansas Undergrad nonsci majors  
Salina, Kansas 67401
- Designed to explore a sense of the earth, past and present, meaning-wise and experience-wise, through the medium of imaginative literature and other readings and relate this to ecological, theological, technological perspectives.
251. The Social Impact of the Biological Sciences Biology  
J. Alfred Chiscon Introductory  
Biology Department Undergrad nonsci majors  
Purdue University  
W. Lafayette, IN 47907
- An examination of past, immediate, and long-term relevance of the biological sciences to members of the human society; and an examination of how creative people in such disciplines as political science, literature, art, drama, and history have effectively utilized their knowledge of the biological sciences in "doing their own thing."
252. The Spirit of Darwin and Marx Humanities  
W. Sewell and S. Stephens, Humanities Introductory  
Michigan Technological University Undergrad sci/nonsci majors  
Houghton, MI 49931
- Interdisciplinary study of selected writers, artists, composers, philosophers, and scientists of the 19th century.
253. The Spirit of Freud and Einstein Humanities  
W. Sewell and S. Stephens, Humanities Introductory  
Michigan Technological University Undergrad sci/nonsci majors  
Houghton, MI 49931
- Interdisciplinary study of selected writers, artists, composers, philosophers, and scientists of the 20th century.
254. The Spirit of Newton and Paine Humanities  
K. Brahney and W. Sewell, Humanities Introductory  
Michigan Technological University Undergrad sci/nonsci majors  
Houghton, MI 49931
- Interdisciplinary study of selected writers, artists, composers, philosophers, and scientists of the 18th century.
255. Technology and the American Dream (P) English  
Kathleen Woodward, English Advanced  
University of Wisconsin Undergrad  
Milwaukee, WI 53201
- Study of the relationship between the ways and means of technology and the American values of the dollar, conspicuous consumption, and self-improvement in the second half of the 20th century, as seen in utopia, the essay and novel.

256. Technology and Human Values (P)  
 J. Gallagher, English  
 University  
 em, PA 18015  
 Human Perspectives on  
 Technology  
 Introductory  
 Undergrad  
 The technology from such disciplines as literature, history, art, myth, folklore, film, and philosophy.
257. Technology and Musical Expression (P)  
 Edwin M. Good and F. Richard Moore  
 Religious Studies  
 Stanford University  
 Stanford, CA 94305  
 Values, Technology and Society  
 Undergrad  
 Interrelations between the technology that produces means of making musical sound and the expressive ways composers have used those means in Western art music, 18th century to the present. Focus on two cases: development of the piano in the 18th and 19th centuries and electronic developments in the 20th century, especially electronic music and the uses of the digital computer.
258. Technology: The Humanist Response  
 Eugene Levy, History  
 David Demarest, English  
 Carnegie-Mellon University  
 Pittsburgh, PA 15213  
 History/English  
 Advanced  
 Undergrad  
 Focus on the humanist response to technology in the areas of the environment, heavy industry impacts, and the computer. It utilizes insights from both history and English.
259. Technology in Its Social Context  
 Manfred R. Bottaccini  
 Aerospace and Mechanical Engineering  
 University of Arizona  
 Tucson, AZ 85721  
 Aerospace and Mechanical  
 Engineering  
 Intermediate  
 Undergrad/grad sci/nonsci  
 majors, law/med students  
 Social history of the Western world through a study of the changes induced by technics and the intellectual perception of technics. The interaction of art, literature and music with technology.
260. Technology in Utopian Literature and Science Fiction (P)  
 Roy Swanson, Comparative Literature  
 University of Wisconsin  
 Milwaukee, WI 53201  
 Comparative Literature  
 Advanced  
 Undergrad  
 Study of the incidence of technology in past and present Western cultures and in speculative cultural systems, with special reference to utopian literature and science fiction.
261. Topics in Literature and Culture  
 Steve Hollander, English  
 Indiana University  
 Ft. Wayne, IN 46805  
 English  
 Introductory  
 Undergrad  
 Analysis of contemporary and future America as a scientific and technological civilization. Nature and history of science and technology. Impact of selected new discoveries and applications on the individual and his culture.

262. Utopian Dreams and Nightmares President's Scholars  
 Mark R. Hillegas, English Introductory  
 Southern Illinois University Undergrad  
 Carbondale, IL 62901

A study of the major utopias and dystopias, and the works of non-fiction extrapolation of alternative futures--from Plato to the present.

263. Values in the contemporary World Upper division  
 William Klink, Physics and Astronomy Undergrad  
 Robert Scharlemann, Religion  
 University of Iowa  
 Iowa City, IA 52242

Modern problems in definition and choice of values, examined through writings in religion, literature, and science.

### 1.03. Science/Technology and Religion

264. Advanced Seminar in Theology and the Sciences (P) Chicago Cluster of Theological  
 (Contact) Ralph W. Burhoe Schools  
 Chicago Cluster of Theological Schools Advanced  
 Center for Advanced Study in Religion and Science Faculty members  
 1100 E. 55th Street  
 Chicago, IL 60615

Topics in seminars have included: God and natural selection, brain as blender of cultural and genetic information, evolution of human values in coadapted genes and culture-types. The publication Zygon seeks to integrate fact and values, current scientific knowledge and man's notions of what is meaningful and sacred in life.

265. Bible-Science Seminar Natural Science  
 Nancy Hodson Introductory  
 Friends Bible College Undergrad nonsci majors  
 Haviland, KS 67059

Correlates science and the Bible within the areas of astronomy, geology, and biology with emphasis in Bible cosmology and the age of the universe, creation vs. evolution, and the flood.

266. Biblical Ethics and Post-Modern Issues Religious Studies  
 Manfred O. Meitzen, Religious Studies Introductory  
 West Virginia University Undergrad sci/nonsci majors  
 Morgantown, WV 26506

Basic topics: Principal types of religious ethics, sin, guilt, law, grace, the state; the Biblical approach to ethical issues in the post-modern world such as bioethics, euthanasia, environmental ethics, sex.

267. Christian in Age of Scientific Discovery Theology  
 Dennis R. Zusy Introductory  
 Clarke College Undergrad sci/nonsci majors  
 Dubuque, IA 52001

Impact of scientific discovery on religious belief and practice. Investigation of new issues raised by control over human life.

268. The Christian View of Science and Scripture  
 Don England, Chemistry, et al  
 Harding College  
 Searcy, AR 72143  
 Physical Science  
 Advanced  
 Sci majors
- To provide students with a better understanding of the relationship of science and technology to Christian faith. Topics considered are: science and faith, logic, probability, scientific methods, origins, technology, transplants, genetic engineering, abortion, life and death.
269. Creation in Scientific and Religious Perspective  
 D. Van Ostenberg, Physics, et al  
 General Education College  
 De Paul University  
 Chicago, IL 60614  
 Natural Science--Math/  
 Philosophy and Religion  
 Introductory  
 Undergrad sci/nonsci majors,  
 honor students
- To give the student a mutual understanding of the seemingly different perspectives of science and religion in regard to the creation or origin of the universe, solar system and man.
270. The History of the Warfare of Science and Theology:  
 Fact or Fiction?  
 Dean R. Fowler, Theology  
 Marquette University  
 Milwaukee, WI 53233  
 Theology  
 Advanced  
 Undergrad sci/nonsci majors
- Studies the interface of science and religion seeing interplay of disciplines by focusing on Newtonian period, 18th century, Darwinism, and 20th century issues.
271. Introductory to Religion: Function of Religion  
 Louis B. Jennings, Bible and Religion  
 Marshall University  
 Huntington, WV 25701  
 Bible and Religion  
 Undergrad
272. Issues in the History of Science and Theology (P)  
 Edward E. Daub, General Engineering  
 Man, Technology and Society  
 University of Wisconsin  
 Madison, WI 53706  
 History of Science  
 Introductory  
 Undergrad/grad sci/nonsci  
 majors
- Examines the main accommodations of theological thought to science, the contributions of theology to the promotion of science and technology, the present state of the science and theology dialogue, and the ethical issues which arise from man's increasing powers over nature.
273. Issues in Modern Religion  
 Edward A. Yonan  
 Program in Religious Studies  
 University of Illinois  
 Urbana, IL 61801  
 Religious Studies  
 Introductory  
 Undergrad
- Theological reflection on contemporary intellectual issues, including the dialogue between religion and aspects of social theory, psychology, history, and the natural sciences.

274. Issues in Religious Ethics: Love and Justice (P)  
 James F. Childress  
 Kennedy Institute, Center for Bioethics  
 Georgetown University  
 Washington, D.C. 20057  
 Theology  
 Intermediate  
 Undergrad, philosophy and  
 theology majors  
 An examination of various conceptions of "love" and "justice" and their relations in Protestant and Catholic writings, mainly from the last forty years. Emphasis on the implications of particular conceptions of love and justice for problems in biomedical ethics (such as, the allocation of scarce resources) and political ethics (such as, just war theories).
275. Issues in Science and Religion  
 Carl Skrade, Religion and  
 Carl Sievert, Chemistry  
 Capital University  
 Columbus, OH 43209  
 Religion/Chemistry  
 Advanced  
 Undergrad sci majors  
 A probe into the possibilities for communication and cooperation between science and religion as man faces a future of unprecedented risk and hope.
276. Issues in Science and Religion  
 Department of Physics  
 Pacific Union College  
 Angwin, CA 94508  
 Physics and Comparative  
 Science  
 Advanced  
 Undergrad sci/nonsci majors  
 Examination and discussion of the issues that arise out of the topics of interaction between science and theology. Emphasis on tentativeness and progressive nature of science and re-examination of interpretation.
277. Religion and Human Culture  
 Gary Davis  
 Northwest Missouri State University  
 Maryville, MO 64462  
 Humanities  
 Introductory  
 Undergrad sci/nonsci majors  
 A course in cultural expression of religion including the scientific technological effort to preserve physical being from the threat of nonbeing. Course focuses on proposals for behavior modification and genetic engineering.
278. Religion and Human Ecology  
 Ronald O. Clarke, Religious Studies  
 Oregon State University  
 Corvallis, OR 97331  
 Religion  
 Advanced  
 Undergrad/grad sci/nonsci  
 majors  
 Religion and ecological concepts of man's relation to nature, human values and environmental problems, current quests for an environmental ethic and a theology of nature.
279. Religion and Science  
 James J. Dagenais, Religion  
 Miami University  
 Oxford, OH 45056  
 Religion  
 Introductory  
 Undergrad  
 Discussion of theological and moral problems raised for religious communities by the advancement of science.

280. Religion and Science Religion  
Advanced  
Undergrad/grad sci/nonsci  
majors  
Ronald O. Clarke, Religious Studies  
Oregon State University  
Corvallis, OR 97331  
History of the relations between religion and science, methods of science and religion, implications of scientific theories for religious thought.
281. Religion and Science Religion  
Introductory  
Undergrad sci/nonsci majors  
Ileana Marculescu, Religion and Philosophy  
Sweet Briar College  
Sweet Briar, VA 24595  
An examination of the metaphysical and religious implications of twentieth century theoretical science: Physics, biology, systems theory, ecology, medicine. Particular attention to the Christian faith and biomedical ethics.
282. Religion and Science Religion  
Introductory  
Undergrad  
(Contact) Allen L. Dickes  
Texas Christian University  
Ft. Worth, TX 76129  
A presentation of the ways of knowing truth or reality and responding to its utilization in religion (particularly the Judeo-Christian heritage) and in the sciences. Such issues as the following may be studied: Threat and promise of nuclear power, other scientific technologies, environmental pollution, population explosion, birth control, abortion, evolution and creation, verification and evaluation.
283. Science and Christian Faith General Studies  
Advanced  
Undergrad  
Franklin J. Gailey  
Berea College  
Berea, KY 40404  
Classical and contemporary issues in the dialogue between scientists and religious thinkers dealing with cosmology, creation, mechanistic thought, the nature, purposes, and limitations of science and of religion, the meaning of experience, knowing and believing, and ethical, social and moral implications of recent advances in science, technology, and medicine.
284. Science and Christianity Biology/ICU  
Introductory  
Undergrad nonsci majors  
E. Edward Peeples, Biological Science  
Joachim Viens, United Campus Ministry  
University of Northern Colorado  
Greeley, CO 80639  
Study of interface of science and religion. Examination of history of relation between two fields--relation to current society problems.
285. Science and Religion Philosophy  
Advanced  
Undergrad sci/nonsci majors  
H. Rolston, Philosophy and Religious Studies  
Colorado State University  
Fort Collins, CO 80523  
Includes topics such as: Religious belief in relation to science; methods in science; religion and the physical sciences (mechanism, determinism); religion and the biological sciences (evolution, reduction); religion and the human sciences (Freud, behaviorism, anthropology); and conceptions of God viable in a scientific age.

286. Science and Religion Biology/Theology  
 R. H. O'Bannon, Natural Science Advanced  
 Martin Baldree, Religion Undergrad sci majors  
 Department of Natural Science  
 Lee College  
 Cleveland, TN 37311

Purpose is to: (1) harmonize scientific facts with Biblical truths, (2) acquaint students with the major areas of discrepancies existing between science and fundamental Christianity, and (3) emphasize the difference between scientific fact and scientific philosophy.

287. Science and Religion Religion  
 Dexter Beary, Biology; Karl Konrad, Chemistry; Advanced  
 and George W. Reid, Religion Undergrad sci/nonsci majors  
 Southwestern Union College  
 Keene, TX 76059

A survey of approaches to nature prior to modern times, followed by a study of philosophical principles (including ethical perspectives) which underlie modern scientific thought and method. Attention is given to special creation and Darwinism theory of origins, diluvialism, radioactive dating methods and modern paleological studies.

288. Science and Religion Physics  
 M. Eugene Rudd, Physics Introductory  
 University of Nebraska Undergrad nonsci  
 Lincoln, NE 68588

Assumptions made by science and religion in developing comprehensive world view. History of conflicts in thought about relations of science and religion. Influence of each field on the other.

289. Science and Religion Religious Studies  
 Staff, Religious Studies Advanced  
 Villanova University Undergrad sci/nonsci majors  
 Villanova, PA 19085

The relationship between the great scientific discoveries and the reaction which they generated.

290. Science, Religion and Society General Studies  
 Keith Kester, Chemistry and Upper class  
 Joseph Pickle, Religion Undergrad  
 The Colorado College  
 Colorado Springs, CO 80903

An interdisciplinary inquiry into the manner in which science and religion provide basic perspectives by which men construct and act in their world. Materials drawn from the Natural Sciences and the Christian tradition.

291. Science Seminar Biology  
 H. Orville Heisey and Karl M. Oberholser Advanced  
 Messiah College Undergrad sci majors  
 Grantham, PA 17027

The practical implications of the Christian faith, including ethics, history and philosophy of science and vocation, for students majoring in biology and chemistry.

292. Secularization (P) Religious Studies  
 Winston B. David, Religious Studies Grad  
 Stanford University  
 Stanford, CA 94305

Cross-cultural study of the the transition from traditional, religiously-oriented civilization to modern, secular society. Topics covered: theories of secularization; religious incentives and impediments to secular world-views in traditional cultures (e.g., Israel, Greece, Europe, India, China, and Japan); the secularization of work and politics; the sacralization of consumption; secularization of elites, institutions, and "masses"; secular values and lifestyles; related sociocultural factors: urbanization, industrialization, science and technology.

293. Technology and Theology Religious Studies  
 Joseph D. Ban, Religion and History Advanced  
 Linfield College Undergrad, law students  
 McMinnville, OR 97128

An examination of the impact of technology upon the modern human community, especially on the formation of values.

294. Theological Interpretation of Society CC  
 Wilson Yates and James B. Nelson Introductory  
 United Theological Seminary Grad, Divinity students  
 New Brighton, MN 55112

Course shows how the social sciences are crucial to the theological task, and particularly so in the analysis of issues related to science and technology.

295. Theology and the Life Sciences Theology/Religious Studies  
 Henry V. Sattler, Theology Advanced  
 University of Scranton Undergrad  
 Scranton, PA 18510

Theological values in human life; divine plan in the natural environment. Problems posed to theology in ecology, population growth, abortion, sterilization, euthanasia, genetic technology, insemination, organ transplants, sex transformation, character change through drugs, and others.

296. Theology and Values Theology  
 Daniel G. Maguire Upper division  
 Marquette University Undergrad  
 Milwaukee, WI 53233

Development of an ethical methodology and discernment of value issues in scientific and political sphere.

297. The Theology of Man Theology  
 David G. Schultenover Advanced  
 Marquette University Undergrad  
 Milwaukee, WI 53233

Study of Christian anthropology. Pursues the question: What difference does Christ make for man's understanding of himself? Investigation begins with Freudian and post-Freudian perspectives on man and the religious questions.

1.04. Methodologies of Science/Technology

298. Between Science and Philosophy  
 W. T. Griffith, Physics and  
 Walter Reif, Philosophy  
 Pacific University  
 Forest Grove, OR 97116  
 Science/Philosophy  
 Introductory  
 Undergrad sci/nonsci majors
- Study of the methods and objectives of both science and philosophy and the relations between these fields. The values of science and the role of ethics in science-and-society issues were discussed. Case studies from the history of science were used to illustrate how science progresses.
299. Introduction to Philosophy of Science  
 Jay T. Keenley, Philosophy and Religion  
 Mississippi State University  
 Mississippi State, MS 39762  
 Philosophy and Religion  
 Introductory and advanced  
 Undergrad/grad
- Introduction to the methodological issues common to the sciences. Exploration of the value influence of science on social issues.
300. Man and Science  
 (Contact) Milo V. Anderson  
 Seaver College  
 Pepperdine University  
 Malibu, CA 90265  
 Natural Science  
 Advanced  
 Undergrad sci/nonsci majors
- Emphasis is basically a historical study of the strategy and tactics of science, using selected topics (atomic theory, energy, molecular genetics, pollution). Some attention is given to ethical and social consequences of scientific developments.
301. Math-Science Concepts  
 Erdie Morris, et al  
 Grand Canyon College  
 Phoenix, AZ 85017  
 Science  
 Undergrad sci/nonsci majors
- Conceptual approach to science and mathematics as a general education requirement for all students. Deals with philosophical and ethical aspects of science, the scientific method and historical perspectives.
302. Mythic and Scientific Thought (P)  
 Richard Trapp, Classics and  
 David Mustart, Geology  
 San Francisco State University  
 San Francisco, CA 94132  
 NEXA  
 Introductory  
 Undergrad sci/nonsci, and  
 humanities and arts majors
- Ancient and modern myths are contrasted with scientific theories to investigate alternative modes of penetrating the mysteries of natural phenomena. Topics including human origin and migrations, drifting continents, and purported catastrophic events are considered in light of these divergent approaches.
303. The Nature of Science  
 Neal J. Holmes, Science Education  
 Central Missouri State University  
 Warrensburg, MO 64093  
 Science Education  
 Advanced  
 Grad
- The role of theories, assumptions, inductive and deductive reasoning, inferences, prediction, models, ethics and practice in science.

304. Nature of Scientific Thought  
M. J. Walker, Physics  
University of Connecticut  
Storrs, CT 06268
- Science  
Introductory  
Undergrad/grad sci/nonsci  
majors
- Method and purpose of science, models, sources of knowledge, decision process, relation to ethics and theology, current problems, predictions.
305. Philosophical and Ethical Problems in Technology  
Lynn Lindholm, Philosophy  
University of Tulsa  
Tulsa, OK 74104
- Philosophy  
Advanced  
Undergrad
- A survey of philosophical problems concerning the development and effect of technology. The course tries to go behind contemporary issues and popular debates to examine the basic assumptions concerning technology which largely determine the problems.
306. Philosophical Problems in Biology, Senior Seminar  
R. K. Packer, Biological Science  
George Washington University  
Washington, D.C. 20052
- Biological Science  
Advanced  
Undergrad sci majors
- Consideration of methodological and metaphysical topics such as: Reductionism versus antireductionism, teleology and idealism versus materialism. Also, a study of the philosophical implications of evolution and molecular biology and the possibility of constructing an ethical system on the basis of biological (especially evolutionary) theory.
307. Philosophy and Science  
Mary C. Rose, Philosophy  
Goucher College  
Towson, MD 21204
- Philosophy  
Advanced  
Undergrad
- History of the development of the method of science; importance of commitment to values on the part of the investigator. Limited usefulness of positivism, instrumentalism, secular existentialism, critical realism. Need for realism in ontology.
308. Philosophy of Science  
Ruth B. Heizer, Philosophy  
Georgetown College  
Georgetown, KY 40324
- Philosophy  
Advanced  
Undergrad
- An examination of scientific concepts, the nature of scientific theories, problems in scientific method, and the value questions encountered in the scientific enterprise.
309. Philosophy of Science  
Jim Mannoia and Richard Trammell  
Grove City College  
Grove City, PA 16127
- Philosophy  
Introductory  
Undergrad
- A study of the nature and presuppositions of the scientific method. Attention is given to the implications of scientific method and "world view" for philosophy, religion, and ethics.

310. Philosophy of Science  
D. G. Sanderson, Philosophy  
Louisiana State University  
Shreveport, LA 71105  
Philosophy  
Introductory  
Undergrad
- An examination of the central philosophical problems of science especially focusing on the value problems that science and technology have produced to contemporary society.
311. Philosophy of Science  
David Fairchild, Philosophy  
Purdue University  
Fort Wayne, IN 46805  
Philosophy  
Advanced  
Undergrad/grad, philosophy  
majors
- Examines philosophic presuppositions of science, the relationships between scientific activity and human values.
312. Philosophy of Science  
Mark Moore, Philosophy  
Salisbury State College  
Salisbury, MD 21801  
Philosophy  
Advanced  
Undergrad sci/nonsci majors
- A study of the scientific method, both as developed historically and the logical requirements for decision.
313. Philosophy of Science  
Frank K. Fair  
Sam Houston State University  
Huntsville, TX 77340  
Philosophy  
Introductory  
Undergrad sci/nonsci majors
- Surveys topics in the philosophy of science including the logical structure of explanations, the personal factor in doing science, the relations of science to the realm of values, and the mind-body problem.
314. Philosophy of Science  
T. Graham Roupas  
University of Connecticut  
Storrs, CT 06268  
Philosophy  
Advanced  
Undergrad
- An analysis of the nature of scientific knowledge and its relation to the world of common sense experience. A consideration of important historical and contemporary points of view concerning scientific "law" and explanation." An investigation of the philosophical implications of scientific assumptions, concepts and methods--the moral and ethical considerations of scientific research.
315. Philosophy of the Social Sciences  
David H. Jones, Philosophy  
College of William and Mary  
Williamsburg, VA 23185  
Philosophy  
Introductory  
Undergrad
- A critical examination of competing concepts of human nature and society in the behavioral sciences and what they imply regarding the possibility of scientific explanation of human behavior. Special attention is given to the role of values in the social sciences at both the theoretical and applied level.

316. Philosophy of the Social Sciences Social Science  
 T. B. Ranson, Social Science Grad  
 Western State College  
 Gunnison, CO 81230

Through analysis and comparison of three logics--rationalistic, empirical and instrumental --students are made aware of the major methods of knowing and the implications for each for the integration of scientific and value inquiry.

317. Philosophy of Technology Values, Technology and Society  
 Robert E. McGinn Grad/undergrad  
 Stanford University  
 Stanford, CA 94305

The nature and significance of technology as a form of human activity: (1) the products, purposes, kinds of knowledge, methods, resources, psychology, and socio-cultural contexts of technology; (2) social and cultural philosophies of technologies, viz., those of Marx, Weber, Habermas, and Ellul; (3) philosophical issues in technology, e.g., technological determinism, technological and human progress, technology as value-laden or value-free, and specifically modern characteristics of modern technology in relation to cultural modernity.

318. Philosophy, Science and Human Values Philosophy  
 James D. Heffernan, Philosophy Introductory  
 University of the Pacific Undergrad  
 Stockton, CA 95211

Inquiry into the scope and limits of the scientific enterprise and into the relationships between scientific and evaluative questions as well as an assessment of contemporary criticisms of the scientific enterprise.

319. Philosophy, Science and the Modern World Philosophy  
 Edward W. James Introductory  
 Bridgewater State College Sci/nonsci majors  
 Bridgewater, MA 02324

Introduction to philosophy through an examination of modern science via (1) the history of science, (2) examination of whether science gives one view of the person, and (3) an examination of whether science is value free and/or free from obligations.

320. Science and Imagination Philosophy  
 Philosophy  
 Shaw University  
 Raleigh, NC 27611

In thinking through the basis of 'scientific' knowledge, this course shall place into question the claim for objectivity as an appropriate description for how man knows, and shall investigate what significance and understanding of the imagination has for knowledge of any kind.

321. Science and Mysticism (P) Philosophy  
 Bernard Gendron Advanced  
 University of Wisconsin Undergrad  
 Milwaukee, WI 53201

Science has recently been subjected to increasing attack, not only as a social force, but also as a system of knowledge. To deal adequately with these criticisms we have to probe not only into the foundations of scientific thinking but also those of traditional Western philosophy as well and examine for contrast some non-Western system of thought.

322. Science and Pseudoscience  
 Patricia P. Weymouth, Natural Science, et al  
 Michigan State University  
 East Lansing, MI 48823  
 Natural Science  
 General, terminal  
 Open to all students  
 Comparing ideas widely accepted in science, e.g., astronomy and physiology, with other ideas not so accepted, e.g. astrology, plant emotions and Kirlian auras, the class will explore the roles of speculation, creativity, reasoned thought and preconceptions in the development of ideas and their reception.
323. Science, Objectivity, and Values  
 Paul E. Tibbetts, Jr  
 Department of Philosophy  
 University of Dayton  
 Dayton, OH 45469  
 Philosophy  
 Service course  
 Undergrad sci/nonsci majors  
 A study of three interrelated issues: the limits of scientific methodology, science as a social institution, and science and human values.
324. Scientific Origins of the Modern World View  
 D. Beaver  
 Williams College  
 Williamstown, MA 01267  
 History of Science  
 Introductory  
 Undergrad  
 A study of the development, use, and implications of the fundamental concepts of the major scientific revolutions from Galileo to Einstein. Attention is given to an evaluation of the impact of science on the values and ideas of the modern world.
325. Scientific Revolutions  
 A. Plamondon, Philosophy and  
 J. Christman, Chemistry  
 Loyola University  
 New Orleans, LA 70118  
 Philosophy  
 Advanced  
 Undergrad  
 A critical study of two aspects of revolutions in science: (1) revolution in theoretical concepts and (2) cultural revolutions caused by the application of these concepts. This study will be undertaken by an assessment of what scientists do and by an evaluation of how the practice of science is influenced by cultural factors.
326. Survey of Parapsychology  
 R. A. McConnell, Life Science  
 University of Pittsburgh  
 Pittsburgh, PA 15260  
 Life Science  
 Advanced  
 Upper level and grad  
 Topics include: The nature of scientific theory, proof, and reality; dissociated mental states and ethical responsibility; popular occultism as a threat to science; scientific specialization as escape from reality; the intellectual revolutionary process; ESP/PK as a new kind of interpersonal relationship.
327. Understanding the Discovery Process--  
 An Historical Approach (P)  
 W. D. Kingery  
 Massachusetts Institute of Technology  
 Cambridge, MA 02139  
 Technology Studies Program  
 Undergrad  
 Individual case histories of scientific and technological discoveries investigated by students as an experimental base for testing ideas about discovery, heuristic reasoning and the scientific process including such concepts as the market for discovery, the importance of paradigms, the importance of anomalies, the influence of communities, the distinction between discovery and proof of discovery, and the nature of plausible reasoning.

1.05. Professional Ethics

## General

328. Business 371 Business  
Advanced  
Undergrad  
Sr. Judith Shield  
Barry College  
Miami, FL 33161
- Focus on social and ethical implications in problems concerning motivation, morale, conflict, emotions and decision-making policies, personal responsibility, corporate decisions, employer-employee relationships, productivity behavior in advertising, marketing-management. Ethical behavior in today's society.
329. Discussion Theories and Social Realities in Engineering Planning Civil Engineering  
Advanced  
Grad  
M. L. Manheim, Civil Engineering  
Massachusetts Institute of Technology  
Cambridge, MA 02139
- Exploration of the roles of professionals in reaching decisions about large-scale technological projects with significant social and political contexts, with examples from engineering and planning. Technocrats and ethics; value perspectives of various technocratic professionals--engineers, architects, planners, economists, systems analysts, and the like--concerned with large-scale projects; alternative models of professional roles in societal change; poses the questions, should there be a code of ethics for technocrats and what should be the roles of the professional?
330. Ethical Issues in the Professions (P) Philosophy  
Advanced  
Undergrad  
Michael Praetorius and Timm Thorsen  
Whittier College  
Whittier, CA 90608
- Investigation of the following: What is an ethical issue? What is a profession? What ethical issues confront various professionals? How should a person handle these issues?
331. Ethics and Technocrats Civil Engineering  
Undergrad  
M. L. Manheim, Civil Engineering  
Massachusetts Institute of Technology  
Cambridge, MA 02139
- Explores the value perspectives of those in the technocratic professions--engineers, economists, systems analysts, architects. Poses the question: Should there be a code of ethics for technocrats? Assists the student in clarifying personal and professional objectives.
332. Ethics for the Professional Religious Studies  
Advanced  
Undergrad/grad sci/nonsci,  
pharmacy, dental, engineer-  
ing, music majors  
Robert W. Blaney, Religious Studies  
Daniel R. Fisher, M.D.  
University of the Pacific  
Stockton, CA 95211
- For students anticipating professional careers to compare methods of the humanities to business administration, education, engineering, dentistry, medicine, pharmacy, music and law. Students encouraged to develop own professional ethic.

333. Law and Business Ethics  
Herman J. Saatkamp, Philosophy  
University of Tampa  
Tampa, FL 33606

Management  
Graduat. (MEA)  
Grad

Study of conceptual frameworks and principles applicable to managerial decisions involving legal constraints and business ethics.

334. Medicine and Its Critics: A Study of Medical Practices as a Paradigm for Expert-Client Relations (P)  
M. Kahne, Technology Studies  
Massachusetts Institute of Technology  
Cambridge, MA 02139

Technology Studies  
Undergrad

Seminar engages problems of social planning and intervention through a study of professional behavior of medical personnel. This course is designed to provide students interested in such fields as Architecture, Planning, Law, Medicine and Engineering with a framework for understanding the social dimensions of professional work.

335. Professional Ethics (P)  
Albert W. Flores, Philosophy  
Rensselaer Polytechnic Institute  
Troy, NY 12181

Human Dimensions Center  
Advanced  
Undergrad/grad sci/nonsci  
majors

Professional people have special responsibilities to the people they serve different from normal circumstances; explaining these responsibilities and the theoretical reasons for them is one of the purposes of the course. Codes of ethics are analyzed, case studies are presented in order to clarify the values professionals maintain.

336. Professional Ethics  
Stanley Nevins and  
Joanmarie Smith, Philosophy  
St. Joseph's College  
Brooklyn, NY 11205

Philosophy  
Advanced  
Undergrad sci/nonsci majors

Topics include: Impact of technology in moral decisions, nature of values, moral limits of research, and legal, medical, business and educational ethics.

337. Professions (P)  
K. Manning and I. Kaplan  
Massachusetts Institute of Technology  
Cambridge, MA 02139

Technology studies  
Undergrad/grad

Learning to apply the insights and methods of history, anthropology, and sociology to understand the individual and social experience of people in the technical professions, with considerable attention to medicine, science and technology. Projects on issues which concern students involve field work and research at MIT and elsewhere.

338. Science and Ethics (P)  
S. S. Schweber, Physics  
William A. Johnson, Philosophy and History of Ideas  
Brandeis University  
Waltham, MA 02154

Physics/Philosophy and History  
of Ideas  
Undergrad, open to all  
students

Presents a philosophical and historical perspective on contemporary concerns in the area of science and values and deals with some specific problems stemming from the advances of the sciences, in particular, questions relating to professional ethics.

339. Science and Man's Goals  
Robert Beck, Mathematics  
Villanova University  
Villanova, PA 19085
- Science  
Introductory  
Undergrad sci/nonsci majors
- Readings and discussion on the influences of science and technology on man's way of life. Responsibilities of the researcher, the implementer, and the consumer; determination of funding priorities.
340. Science and Social Responsibility  
Lawrence Badash, History  
University of California  
Santa Barbara, CA 93106
- History  
Advanced  
Undergrad nonsci majors
- Seminar on various topics dealing with the effect of science upon society, and questions of scientific responsibility.
341. The Scientist and Social Responsibility (P)  
W. C. Kaufman, University Seminar Program  
University of Wisconsin  
Green Bay, WI 54302
- Senior University Seminar  
Advanced  
Undergrad sci/nonsci major.
- A consideration of the motivation of scientists, their attitudes toward ethical practices in research, the application of research findings and the relation of political and national concerns to science and research.
342. Selected Topics in Physical Anthropology  
William M. Bass, Richard L. Jantz  
and Fred H. Smith  
Department of Anthropology  
University of Tennessee  
Knoxville, TN 37916
- Anthropology  
Advanced  
Grad
- A graduate seminar aimed at teaching advanced students ethics and values of science, research and teaching.
343. Social Science Interdisciplinary Seminar  
Sally Gorelnik, Sociology  
California State College  
Turlock, CA 95380
- Social Science  
Advanced  
Undergrad
- The theme of the course is ethics in modern society. Basically, the ethical standards of different occupational groups through guest speakers and presentations.

## Engineering

344. Civil Engineering  
D. Roos, Civil Engineering  
Massachusetts Institute of Technology  
Cambridge, MA 02139
- Civil Engineering  
Introductory  
Undergrad

An overview of the civil engineering profession through an introduction to its issues, career opportunities, and personalities through lectures. Lecturers and topics chosen to provide a representative sample of technical, legal, business and ethical aspects of civil engineering practice.

345. The Engineer and Society  
 Alfred C. Ingersoll and Philip O'Brien,  
 Engineering Systems  
 University of California  
 Los Angeles, CA 90024

Engineering  
 Advanced  
 Undergrad, engineering majors

Designed to consider the role of the professional engineer in an advanced technological society, to acquaint the student with engineering ethics, to develop his ability to think constructively about his contribution to change, social, political, ecological.

346. Engineering and Society  
 Richard L. Rosen and Cecil Smith, History  
 and Diran Apehan, Materials Engineering  
 Drexel University  
 Philadelphia, PA 19104

History-Politics  
 Advanced  
 Undergrad sci, engineering  
 majors

Covers the development of technology, social change and the role of technological innovation, the origins and development of the engineering professions, technology assessment, and the responsibilities of the engineer. Topics were developed historically and socially to familiarize the student with the role of the engineer in society; past, present and future.

347. Engineering Ethics  
 John H. ... , Philosophy  
 Villanova University  
 Villanova, PA 19085

Philosophy  
 Advanced  
 Undergrad

An application of moral principles to the various functions of the engineering profession: Problems concerning the scope of the engineer's responsibility and scientific freedom are drawn from a work context and discussed.

348. Engineering: Its Role and Function in Society  
 Daniel Rosenthal, Engineering  
 School of Engineering and Applied Science  
 University of California  
 Los Angeles, CA 90024

Engineering and Applied  
 Science  
 Introductory  
 Interdisciplinary

Engineering as viewed by humanists, scientists and engineers, past and present. The role of science and humanities in its approach to professional, environmental, and societal problems.

349. Engineering Professional Advocacy  
 Robert L. Carter, Electrical Engineering, et al  
 University of Missouri  
 Columbia, MO 65201

Electrical Engineering  
 Advanced  
 Undergrad/grad

Legislative organization and processes at state level; engineering and science content of general legislation; techniques of communication with legislative staff available to engineers:

350. Engineering, Technology and Society  
 James R. Baker, Engineering  
 Fort Lewis College  
 Durango, CO 81301

Freshman Seminar/Engineering  
 Undergrad

Writing, speaking and scholarly investigations of the engineering profession, the problems faced by engineers, and approaches to them.

351. Ethical Issues in Science and Engineering (P) Technology Studies  
 C. Weiner Undergrad/grad  
 Technology Studies Program  
 Massachusetts Institute of Technology  
 Cambridge, MA 02139

Exploration of the ethical issues that arise in contemporary technical activity. Students may participate in oral history, interview with individuals who played roles in these developments. Seminar, lectures and individual or group field projects.

352. General Engineering Seminar General Engineering  
 Jerry S. Dobrovolsky, General Engineering Introductory  
 University of Illinois Undergrad, seniors in  
 Urbana, IL 61801 general engineering

Series of lectures and discussions by department faculty and visiting professional engineers on ethics, professional registration, the role of technical societies, and the relation of engineering to such disciplines as economics, sociology, and government.

353. Legal and Ethical Aspects of Engineering Introductory  
 Stephen Rudy, Engineering Undergrad  
 School of Engineering  
 The Cooper Union  
 New York, NY 10003

A survey of courts and their jurisdiction; civil and criminal law; equity jurisprudence; expert witness; contracts; patents; product liability; unfair competition; professional ethics and professional enhancement.

354. Legal, Ethical and Social Aspects of Engineering Electrical Engineering/  
 Robert M. Anderson, Electrical Engineering Mechanical Engineering  
 A. A. Potter Engineering Center Advanced  
 Purdue University Undergrad/grad  
 West Lafayette, IN 47907

Product liability and negligence law as it affects the engineer in the employ of a company. Ethical problems of employed engineers. Impact of government on engineering. Social consequences of engineering decisions.

355. Moral Issues in Engineering (P) Philosophy/Humanities  
 Fay Sawyer, Philosophy, et al Advanced  
 Illinois Institute of Technology Undergrad, faculty audit  
 Chicago, IL 60616 course

Analysis of moral issues pertaining to the engineering profession. Among the topics covered: theoretical basis of codes of professional ethics, social responsibilities of engineers, concept of professionalism, ethics of competitive business situations.

356. Professional Development (P) Metallurgy  
 R. W. Kraft and S. K. Terby Advanced  
 Department of Metallurgy Materials Undergrad  
 Lehigh University  
 Bethlehem, PA 18015

This course has two objectives: (1) To help the student become more fully aware of the human, social, political, ethical and moral dimensions of his chosen field, and (2) to assist him in making an intelligent decision about his career after he graduates from the university.

357. Professional Responsibilities of Engineers  
 Harry Brandt  
 Department of Mechanical Engineering  
 University of California  
 Davis, CA 95616  
 Mechanical Engineering  
 Advanced  
 Undergrad  
 Organization of the engineering profession; engineering and management; introduction to contracts, specifications and business law; technical writing; oral presentation on the interaction between engineering and society.
358. Science, Engineering and Society (P)  
 Sal Restivo, Sociology  
 Rensselaer Polytechnic Institute  
 Troy, NY 12181  
 Advanced  
 Undergrad sci and engineering majors  
 A comparative study of science and engineering as social systems, the social roles of scientists and engineers, and the sociology of scientific and other modes of inquiry. Topics covered include values and social responsibility, ideologies and radicalism in science and engineering; antiscience movement; the futures of science and engineering.
359. Seminar on Professional Ethics in Engineering (P)  
 Stephen H. Unger, Electrical Engineering and  
 Department of Computer Science  
 Columbia University  
 New York, NY 10027  
 Engineering  
 Advanced  
 Undergrad/grad, engineering majors  
 Importance to society of ethical behavior by engineers, philosophical historical foundations of engineering ethics, contents of codes, case histories: BART, DC-10, Goodrich airbrakes, and others. The technical witness; plagiarism, AAUP approach to defending professionalism in teaching; supporting the ethical engineer; roles of professional societies, unions, governments, law, universities.
360. Social and Professional Responsibilities of the Engineer  
 L. E. Goodman  
 Institute of Technology  
 University of Minnesota  
 Minneapolis, MN 55455  
 Institute of Technology  
 Advanced  
 Undergrad sci majors  
 Ethical problems arising from the engineer's responsibility to the public, to clients and to other professionals are explored in a series of dialogues between practicing engineers and people outside of the profession.
361. Technology and Man  
 D. Perreault, Computer Engineering  
 F. Collins, Systems Engineering  
 College of Engineering  
 Boston University  
 Boston, MA 02215  
 Engineering  
 Introductory  
 Undergrad  
 Introduces the student to the history, policy, ethics and societal phases of engineering.
362. Technology and Responsibility.  
 C. Le Felne  
 Lower Columbia College  
 Longview, WA 98632  
 Sociology  
 Introductory  
 Undergrad nonsci majors  
 An introduction to the secondary effects of technology on the environment and social structure of man. An examination of the responsibility involved in the creation and utilization of technological devices and processes from a long range point of view.

363. Technology and Society (P)  
 Stephen H. Unger, Electrical Engineering  
 and Computer Science  
 School of Engineering and Applied Science  
 Columbia University  
 New York, NY 10027
- Engineering  
 Introductory  
 Undergrad, engineering  
 majors

Environmental and social impact of technology on society, particularly the consequences of alternative technological choices. Emphasis on the special role of the engineer. Topics include: Technology in human history, an introduction to ecology, energy needs and resources, transportation, war, privacy and professional ethics in engineering.

Psychology

364. Ethical and Professional Problems in Psychology  
 Lawrence E. Taliana and  
 Billy J. Rogers, Psychology  
 Southern Illinois University  
 Edwardsville, IL 62026
- Psychology  
 Advanced  
 Grad, psychology students

Professional practice of psychology and ethical implications in practice, relationships and research. Problems relating to legal status, confidentiality, legal aspects of testing and ethics are also included.

365. Ethical Issues in Contemporary Psychology  
 May Ann C. Richter, Philosophy and  
 Hank Schneider, Psychology  
 Appalachian State University  
 Boone, NC 28608
- Philosophy/Psychology  
 Advanced  
 Undergrad

Covers basic ethical theories in relation to psychological theories and approaches to treatment. An attempt is made to analyze ethical standards for psychologists in terms of internal consistency and underlying ethical theories. A series of contemporary ethical issues are discussed in detail.

366. Ethics and Professional Problems  
 David E. Clement, Stephen L. Cohen and  
 Miles W. Hardy  
 University of South Florida  
 Tampa, FL 33620
- Psychology  
 Advanced  
 Grad

Covers problems involved in professional practice as a psychologist in a wide variety of settings (e.g. research, clinical and counseling practice, industrial-organizational practice). Problems range from ethical matters to research funding and business aspects of professional practice.

367. Personality: Theory and Research  
 F. Canter, Psychology  
 Eastern Michigan University  
 Ypsilanti, MI 48197
- Psychology  
 Advanced  
 Grad

Examination of the concept of personality within the framework of the conceptual and ethical issues in studying it and the scientist's human relationship to his subject matter.

368. Professional Concerns Psychology  
 William Watkins, Psychology  
 College of Arts and Sciences  
 Eastern Kentucky University  
 Richmond, KY 40475  
 Advanced  
 Grad sci majors

Emphasis is on the legal and ethical obligations incurred in the psychologist-patient relationship. Topics considered: ethical and legal aspects and professional organizations.

369. Professional Ethics in Psychology Psychology  
 Daniel J. Kaock, Psychology  
 Fort Hays Kansas State College  
 Hays, KS 67601  
 Grad

Designed to familiarize students with ethical concerns involved with experimentation, psychological testing, efficacy of psychotherapy, behavior modification, and forensic psychology.

370. Professional Problems Psychology  
 E. Philip Trapp  
 University of Arkansas  
 Fayetteville, AR 72701  
 Advanced  
 Grad

Discussion of the ethical code, treatment of human and animal subjects, legislative acts, rights of institutionalized patients, confidentiality.

371. Professional Problems in Psychology Psychology  
 R. S. Daniel, Psychology  
 University of Missouri  
 Columbia, MO 65201  
 Advanced  
 Grad

Covers three major areas: Literature retrieval methods, scientific reporting and professionalization (including ethics).

372. Teaching Psychology Psychology  
 David Nichols, Psychology  
 University of Colorado  
 Colorado Springs, CO 80907  
 Advanced  
 Undergrad/grad

The APA code of ethics for psychologists as scientists, teachers and practitioners forms the core of the course content. How it effects research, teaching and practice in psychology

#### Helping Professions

373. Ethics Philosophy  
 Henry L. Ruf  
 West Virginia University  
 Morgantown, WV 26506  
 Introductory  
 Undergrad

A professional ethics course for graduate students in health education.

374. Ethics, Economics and Jurisprudence Dental Hygiene  
 V. Stankiewicz, Dental Hygiene  
 Prairie State College  
 Chicago Heights, IL 60411  
 Introductory  
 Undergrad

Includes: (1) professional ethics (2) legal status of the dental hygienist to the public, other professionals and self, and (3) ethical responsibilities to the profession.

375. Ethics of the Helping Professions  
 Catherine Elgin, Philosophy  
 Simmons College  
 Boston, MA 02115

Philosophy  
 Introductory  
 Undergrad sci/nonsci, med  
 and nursing students

Ethical issues common to the helping professions all are examined. What is it to help someone? Is it possible to help someone without violating his rights? How can the professional resolve the moral tension between his obligations to his client and his institutional obligations?

376. Foundation of Nursing and Professional Nursing III  
 (Contact) A. David  
 Villa Maria College  
 Erie, PA 16510

Nursing  
 Introductory and Advanced  
 Undergrad

Assists students to understand the role of professional nursing. Emphasis is on health and health care delivery, man and his environment and the professional moral and ethical responsibilities as a helping professional.  
 P. N. III - Includes legal and moral and ethical considerations when working with clients with chronic illness.

377. Medical Ethics (P)  
 (Contact) William B. Bean, M.D.  
 University of Texas Medical Branch  
 Galveston, TX 77550

Medical Humanities  
 Introductory  
 Med students

Introduction to the subject of professional ethics in medicine from historical and philosophical viewpoints.

378. Pharmacy Ethics  
 Charles L. Braucher, Pharmacy  
 School of Pharmacy  
 University of Georgia  
 Athens, GA 30602

Pharmacy  
 Introductory  
 Pharmacy students

Examines problems faced by the community pharmacist as he strives to strike a balance between the demands of economic competition and the demand of professional ethics. The interaction of value systems and modern pharmaceutical technology are considered.

379. Value Conflicts in the Practice of Medicine (P)  
 Roy Branson, Theology  
 Georgetown University  
 Washington, D.C. 20057

Theology  
 Introductory  
 Undergrad/grad, med and  
 nursing students

How physicians and patients perceive each other reflect their value commitments. Attention will be paid to the differing assumptions lying behind those who argue that the physician is a caring friend responsible for deciding how to minimize his patients' suffering, those who insist he is a technician providing services defined by consumers, and those who see him as a citizen entering into contracts with patients.

## 2. ENVIRONMENTAL CONCERNS

2.01. Stewardship of Natural Resources  
(Cultural Attitudes toward the Environmental/Ethical Responsibilities)

380. American Environmental History Environmental Studies/History  
David Morris, History Introductory  
Santa Barbara City College Undergrad sci/nonsci majors  
721 Cliff Drive  
Santa Barbara, CA 93109

Traces American attitudes and actions toward the environment from colonial times to present. Basic ecological concepts also presented.

381. Conservation of Natural Resources Biology  
Prof. Shipley, Natural Science  
California State University  
Long Beach, CA 90840

Natural resources of the world, with emphasis on those of the United States; extent, value, wise utilization and conservation of these resources for future generations.

382. Conservation of Natural Resources Geography  
Russell Flynn, Geography Introductory  
Cypress College Undergrad nonsci majors  
Cypress, CA 90630

Investigations and interpretation of the quality of man's physical habitat in a changing cultural world. Conservation of the natural resources. urban-suburban environments and decreasing opportunities for outdoor recreation.

383. Development of the Environmental Ethic Environmental Studies  
Jack Smith, Environmental Studies Advanced  
Johnson State College Undergrad  
Johnson, VT 05656

Investigates the forces which underlie our culture's attitudes toward the natural environment. Conservation history is included. Special emphasis is upon the contribution of technological and scientific forces to the environment.

384. Earth Ethics Introductory/advanced  
Hal Lenke and Harriet Hodges Undergrad/grad sci/nonsci  
Prescott Center College majors  
Prescott, AZ 86301

How to behave as creatures of the planet. Past projects have included starting campus vegetable garden; students studying alternate energy sources, learning about adobe construction, solar energy devices.

385. Ecology Humanities  
Joyce Bartels, Humanities and Social Science Introductory  
Midwest College of Engineering Undergrad/ grad sci. engineers  
440 S. Finley Road  
Lombard, IL 60148

Study of the interrelationships of organisms and their environment in the presence of man and his works; impact of industrialization, corrective measures and controls, economic and social factors; ethics of engineering ecology.

386. Ecology and Man Biology  
Intermediate  
Sophomore or above  
Philip T. Clampitt, Biology  
Oakland University  
Rochester, MI 48063

The field of ecology and its philosophical, social and technical implications will be briefly explored in this course. The instructor's perspective will be basically biological and ecological, but the subject matter will be interdisciplinary, and students of varying backgrounds, disciplines and points of view are encouraged to enroll. Most of the sessions will be devoted to free-ranging discussion and debate, based on selected brief but thought-provoking readings, plus whatever background information the students bring to the course. The objective of the course is to do some straight thinking, individually and collectively, on issues which, though possibly controversial, could be of utmost importance to the future of mankind.

387. Ecology and Religious Ethics Religion  
Introductory  
Undergrad  
Hans O. Tiefel  
College of William and Mary  
Williamsburg, VA 23185

Moral and religious aspects of human ecology as overpopulation, pollution, resource depletion. Context: Western religious understanding of man and nature.

388. Ecology in American History History  
Advanced  
Undergrad  
Irving Bartlett, History, and visiting engineers  
Carnegie-Mellon University  
Pittsburgh, PA 15213

Study of the changing nature and conception of the environment in American history, with a focus on attitudes and ideas about the environment.

389. Environment, Culture, and Values Environmental Studies  
Introductory  
Undergrad  
Priscilla Laws, Physics  
Frederick Ferre, Philosophy  
Dickinson College  
Carlisle, PA 17013

A study of the effects of scientific, religious, and philosophical values on attitudes toward the environment and how these attitudes may affect our way of life. After exploring the conscious or unconscious myths that people live by, alternative world models are considered together with changes in life style and consciousness that these may involve.

390. Environment of Man Life Sciences  
Introductory  
Undergrad sci/nonsci majors  
Don Wemple and Edward Roach  
San Diego City College  
1425 Russ Boulevard  
San Diego, CA 92101

An examination of the immediate and long-range causes and effects of air, water, and land pollution on the total environment including the study of positive solutions to our ecological dilemma.

391. The Environment: What Are Man's Choices? Environmental Studies  
Introductory  
Undergrad sci/nonsci majors  
Langley Wood, et al  
Sweet Briar College  
Sweet Briar, VA 24595

An introduction to the problems of man's relation to his environment, including historical, ethical and aesthetic, as well as political, scientific, and economic perspectives.

392. Environmental Conservation  
 University of Illinois at Chicago Circle  
 P. O. Box 4348  
 Chicago, IL 60680

Biological Sciences  
 Grad/undergrad

Applied ecology of the use of renewable natural resources; special emphasis on biotic problems of land, water, and air management; pollution, population increase, multiple-use concept, and land ethics.

393. Environmental Ecology  
 Russel O. Wagner  
 University of Wisconsin  
 Platteville, WI 53818

Biology  
 Advanced  
 Undergrad sci/nonsci majors

A study of ecological principles and of environmental problems as related to community structure, populations, food chains and cycles, succession and eutrophication, including the basic concept of ethics.

394. Environmental Ethics (P)  
 I. Barbour, Religion; Clark, History;  
 and Jensen, Biology  
 Carleton College  
 Northfield, MN 55057

College  
 Intermediate  
 Undergrad

Attitudes toward nature in Western thought, American history and literature, and contemporary ecology. Priorities and assumptions influencing environmental policy. Wilderness preservation as a case study.

395. Environmental Ethics  
 Holmes Rolston, Philosophy  
 Colorado State University  
 Fort Collins, CO 80523

Philosophy  
 Introductory  
 Undergrad

Concerns of nature--scientific, philosophical, and religious--as these bear on human conduct in and toward the natural world, in an ecological perspective. Topics: the ecological turn; philosophical paradigms; government; humankind; nature; Eastern perspectives; nature in Communist ideology; the primal vision; ecological ethics.

396. Environmental Ethics (P)  
 S. M. Brown, STS and Philosophy; and  
 M. Safoff, STS  
 Cornell University  
 Ithaca, NY 14853

Biological Sciences and  
 Philosophy  
 Introductory  
 Undergrad sci/nonsci majors

Concerns impact, the conflicting demands we put upon the environment. We shall address specific areas in which technological solutions are proposed to adjust environmental realities to human desires and consider what we would have done to achieve the "right" balance between our opportunities, our values and our needs.

397. Environmental Ethics (P)  
 Stanley T. Sutphin  
 Elizabethtown College  
 Elizabethtown, PA 17022

Philosophy and Religion  
 Advanced  
 Undergrad sci/nonsci majors

The course aims at discovering what ethical responsibilities people have in the social, political, economic, and physical spheres for the survival of mankind. Attention is given to basic ecological principles which support a harmonious accommodation of life in nature.

398. Environmental Ethics Environmental Science  
Shaw University  
Raleigh, NC 27611
- Two opposing environmental philosophies are explored: (1) the idea of man's dominion and exploitation of nature, and (2) the view of man as only the caretaker of nature. The origins of these philosophies will be traced, and value clarifications concerning the application of science to the well-being of man is stressed.
399. Environmental Ethics Philosophy  
Kenneth Goodpaster Philosophy  
University of Notre Dame  
Notre Dame, IN 46556
- An attempt to come to grips critically with the moral significance of contemporary concern for ecology and the environment and an examination of the extent to which this concern challenges the resources of Western ethical thought on pollution, conservation, and population control.
400. Environmental Ethics Biology and Theology  
David A. Mullen, Biology, and  
Hamilton Hess, Theology  
University of San Francisco  
San Francisco, CA 94117  
Advanced, upper division  
Undergrad/grad, sci/nonsci,  
medical students
- An attempt to help modern man understand the basic reasons for his existence and his position in the biosphere.
401. Environmental Ethics (P) Philosophy/Environmental  
Jon Moline, Philosophy  
University of Wisconsin  
Madison, WI 53706  
Studies  
Introductory  
Undergrad/grad, sci majors
- Concerned with man's relationship with the environment. Is it a moral concern or a matter of prudence? How can moral considerations be extended directly to endangered species? Will the notion of a "right" help?
402. Environmental Ethics Philosophy  
Baird Callicott, Philosophy  
University of Wisconsin  
Stevens Point, WI 54481  
Junior/senior  
Undergrad/grad, sci/nonsci  
majors
- Philosophical, religious, and scientific concepts and values which have structured human attitudes toward the natural environment; alternative concepts and values will be explored.
403. Environmental Ethics Environmental Science  
Gerald L. Young, Biology and Environmental Science  
Washington State University  
Pullman, WA 99163  
Advanced  
Undergrad/grad, sci majors
- A seminar of seniors and graduate students reading and discussing selected articles on ethics as related to environmental issues.
404. Environmental Philosophy Philosophy  
Kenneth Brown, Philosophy  
Manchester College  
North Manchester, IN 46962  
Sophomore/junior  
Undergrad
- Consideration of value-oriented questions implicit in the environmental crisis. Topics include technology, ecology, population, social justice, life styles.



411. Environmental Studies: The Humanistic Perspective (P) Institute for Environmental  
Gretchen Schoff, Environmental Studies Studies  
University of Wisconsin Introductory  
Madison, WI 53706 Undergrad, sci/nonsci majors

An introduction to environmental problems as approached by philosophy, literature, fine arts, history of science, and anthropology. Reflections on the past and present situation of our species and its relationship to the rest of nature offer suggestions toward possible alternative values.

412. Environmentalism in United States History History  
Saul Lerner, History Advanced  
Purdue University Undergrad sci/nonsci majors  
2233 171st Street  
Hammond, IN 46323

A survey of the differing perspectives, attitudes, and values with which Americans have perceived and acted toward, upon, and within their physical environment from the late 18th century to the present.

413. General Ecology Landscape Architecture  
Peter Skaller, Landscape Architecture Introductory  
and Regional Planning Grad School  
University of Pennsylvania Grad nonsci majors  
Philadelphia, PA 19104

Basic principles of ecology, stressing ecosystem function, organism adaptation, evolutionary processes . . . in a context of philosophical and religious inquiry.

414. Human Ecology Biology  
R. E. Boerner, Biology Introductory  
Burlington County College Undergrad nonsci majors  
Pemberton, NJ 08068

The course is divided into two portions. The first develops knowledge of classical ecology while the second examines cases in which society, its processes and values, and ecosystem dynamics are in conflict. Values clarification is used to explore for solutions.

415. Human Ecology Sociology  
Shirley F. Hartley, Sociology Advanced  
California State University Undergrad  
Hayward, CA 94542

Introduction to theory and research on human ecosystems, with their interrelated components of population, environment, technology, and organization. Forms of social organization which result from the interaction of the components.

416. Human Ecology General Biology  
Gerald L. Young, Biology and Environmental Science Advanced  
Washington State University Undergrad/grad, sci/nonsci  
Pullman, Washington 99164 majors

A course on the epistemology and theory of human ecology as an interdisciplinary domain-- develops key concepts including ethics as a derivative of more basic ideas in human ecology.

417. Human Ecology Dimension; Intro: Junior and Senior  
 P. L. Packard, Biology  
 Donald Weatherman, Political Science  
 Louie Attebery, English  
 College of Idaho  
 Caldwell, ID 83605

Extradepartmental  
 Introductory  
 Undergrad sci/nonsci/other

To give students a working conception of basic ecological principles as they apply to organisms other than man. A look into the earliest history and later history of man and his place in the ecosystems. To determine main ways man has differed from that of other forms of life. Examine the growing feelings that man's ecology in order to be successful must have a large number of international aspects. Does a shrinking earth demand a more integrated structure of operation? What new attitudes, ethics, philosophies may need to be adopted?

418. Humanity and the Environment  
 William Lindsay  
 Monterey Peninsula College  
 Monterey, CA 93940

Biology  
 Undergrad nonsci

A study of the history of the relationship between humanity and the environment, stressing events which have led to current problems, with a study of these problems and their possible solutions.

419. Introduction to Environmental Studies  
 Philip Ode and Merrill Downer  
 Thiel College  
 Greenville, PA 12125

Environmental Studies  
 Advanced  
 Undergrad

Study of our environment and environmental problems from the perspectives of the natural and social sciences, and ethics.

420. Introduction to Religious Studies  
 Don S. Ross, Religious Studies  
 University of Wisconsin  
 Whitewater, WI 53190

Religious Studies  
 Introductory  
 Undergrad

This course emphasizes human ethical values in relation to the natural environment in the face of increasing technological advancement, and environmental problems. It seeks to emphasize ecological themes in the Hebrew Scriptures, as well as the doctrines of other religions.

421. Living in the Environment  
 George E. Stanton, Biology  
 Columbus College  
 Columbus, GA 31907

Biology  
 Advanced  
 Grad School  
 Undergrad

Living in the environment. Investigation of the ecological functions of the human species, the changes and problems resulting from human interactions with earth's environments, and potential approaches to the solution of these problems.

422. Man and His Environment I and II  
 Winslow H. Hartford, Chemistry, et al  
 Belmont Abbey College  
 Belmont, NC 28012

Environmental Science  
 1 sem intro/2 sem advanced  
 Undergrad

History, philosophy, and ethics of science; matter and energy; the biosphere; air, water, and mineral resources. Technology of pollution control and land use. Economic, social, political, and ethical considerations in arriving at solutions.

423. Man and His Environment  
 D. Huisingh, University Studies  
 North Carolina State University  
 Raleigh, NC 27607
- University Studies  
 Introductory  
 Undergrad sci/nonsci majors

An interdisciplinary examination of the growing interaction between man and his global environment. Attention is focused upon the fundamental concepts of ecology, the impacts of technology, the humanistic aspects of environmental problems and the need for new institutional arrangements.

424. Man and His Environment  
 William H. Walker, Biology  
 Seton Hill College  
 Greensburg, PA 15601
- Biology  
 Introductory  
 Undergrad

Investigates the increasing number of actual and potential environmental health and morality problems. Designed to help interested citizens to know ecological principles by which to evaluate some of the above problems.

425. Man and the Environment  
 University of Southwestern Louisiana  
 Lafayette, LA 70501
- Biology  
 Introductory  
 Undergrad

Study, discussion, and analysis of the environment, particularly as it relates to man, his position in it, and his effects upon it; origin and nature of life and of man; growth of world population and its impact on the environment; changing attitudes, including plans for survival of man in his changing environment.

426. Man and His Environment  
 James F. Arnesen, Biology, and  
 Ray De Palma, Biology  
 William Rainey Harper College  
 Palatine, IL 60067
- Biology  
 Introductory  
 Undergrad sci/nonsci majors

Deals with man's relationship with nature and with himself. Draws from the disciplines of economics, politics, biology, and psychology.

427. Man and the Physical Environment  
 University of Illinois at Chicago Circle  
 P.O. Box 4348  
 Chicago, IL 60680
- Geography  
 Undergrad

Man's place in the world ecosystem is analyzed as an aspect of man-land relationships. Pollution of the physical environment is discussed in technical, social, and philosophical terms. Implications of environmental planning and control are reviewed.

428. Man and the Wilderness  
 David E. Bixler, Biology  
 Chaffey College  
 5885 Haven Avenue  
 Alta Loma, CA 91701
- Biology  
 Introductory  
 Undergrad nonsci majors

An exploration of man's relationship to nature from a physical, social and cultural viewpoint. Various views of nature are explored from a number of cultural viewpoints.

429. Man in the American Environment (P)  
 Institute for Environmental Studies  
 University of Wisconsin  
 Madison, WI 53706  
 Institute for Environmental  
 Studies/History  
 Advanced  
 Undergrad/grad sci/nonsci  
 majors  
 Diverse responses to the changing American environment from early man to the present, including institutional, ecological, geographic, and intellectual aspects in historical perspective.
430. Man, Nature, Ethics  
 David E. Bixler, Biology  
 Chaffey College  
 5885 Haven Avenue  
 Alta Loma, CA 91701  
 Biology.  
 Introductory  
 Undergrad  
 Various cultural views of nature are explored. An attempt is made to evolve a contemporary, adaptive bioethic, which will accommodate man's physical, cultural, and social needs.
431. Man's Impact on the Natural Landscape: Geographical and Historical Perspectives (P)  
 Clinton R. Edwards  
 University of Wisconsin  
 Milwaukee, WI 53201  
 Geography  
 Advanced  
 Undergrad sci/nonsci majors  
 Geographical and temporal distribution of human effects on the land and resources; historical background of human concern for deleterious effects of man's impact on the environment.
432. Man's Place in Nature  
 Staff, Natural Science  
 Michigan State University  
 East Lansing, MI 48824  
 Natural Science  
 Introductory, honors students  
 Undergrad honors  
 Various issues confronting modern man in his attempt to understand his place in and relation to the environment. Emphasis on the role of science in helping to resolve these issues.
433. Mind and Environment  
 University of Illinois at Chicago Circle  
 P.O. Box 4348  
 Chicago, IL 60680  
 Geography  
 Undergrad  
 Models and theories concerning the relationship between psychological processes and the environment; major philosophical models, ancient and modern; major scientific theories developed in geography, psychology, anthropology, and other fields; new insights into the role of cognition and values in such aspects of environmental behavior as locational decision making, geographic learning, and the ethics of conservation.
434. North Land Values (P)  
 Kent Shifferd, History and Environmental Studies, and  
 Peg Jackson, English  
 Northland College  
 Ashland, WI 54806  
 Humanities  
 Advanced  
 Undergrad  
 Senior seminars will examine in depth separate geographical areas of Lake Superior in terms of ethnic heritage, literature and architecture, together with the relationship between man and nature during their histories. Specific current environmental issues and attitudes held regarding these issues, will be studied.

435. Philosophy of the Ecological Problem Philosophy  
 Rev. Matthew Morry, Philosophy  
 Providence College  
 Providence, RI 02918
- A philosophical analysis of man's existential situation and his relationships to animate and inanimate reality in the light of ecology.
436. Philosophy of the Environment Philosophy  
 Peter A. Y. Gunter  
 North Texas State University  
 Denton, TX 76203  
 Advanced, jr./sr. semester  
 Undergrad sci/nonsci majors
- This course explores man's concepts of his physical and social environment; changing attitudes toward contemporary ecological problems; limitations of technology.
437. Quality of Life Environmental Studies  
 Lester Milbrath, Environmental Studies  
 State University of New York  
 Buffalo, NY 14214  
 Advanced  
 Grad
- Critical examination of the latest empirical research on quality of life as experienced by people in various communities and countries.
438. Religion, Ethics, and the Environment (P) Natural Resources  
 Richard A. Baer, Jr., Natural Resources  
 Cornell University  
 Ithaca, NY 14853  
 Introductory  
 Undergrad/grad sci/nonsci majors
- Study of Western religion and values as these have affected our understanding and treatment of nature. Initial historical overview followed by consideration of selected themes, including progress, play and work, objectivity and subjectivity, human finitude and death, and knowledge as control. Also responsibility to future generations; limiting growth and questions of distributive justice; implications of environmental policies for minorities, the poor, and other nations; reverence for being.
439. Resources and Man Geography  
 Thomas R. Vale, Geography  
 University of Wisconsin  
 Madison, WI 53706  
 Introductory  
 Undergrad
- A review of human population growth and its impact on the Earth's resources, including food, energy, physical materials, water, biota, and landscapes; the geography of resource availability and the limits of the Earth as a producer of resources; the importance of attitudes and values in resource use.
440. Science and Survival Physical Sciences  
 Thomas Morrison, Physical Sciences  
 Westchester Community College  
 75 Grasslands Road  
 Valhalla, NY 10595  
 Introductory  
 Undergrad nonsci
- The course provides an opportunity to study three basic questions: (1) Is man destroying his environment? (2) Is he destroying himself? (3) What is this conflict between man and nature about? Some topics covered: philosophy of science, impact of science, science and man, science and government, science and morality.

441. Science, Technology and Society ID 2033  
 Paul F. Hawley  
 University of Tulsa  
 Tulsa, OK 74104  
 Introductory  
 Undergrad sci/nonsci majors
- How technology in general aids, or places strains on, society. Peak referrals are to population dynamics, depletion of nonrenewable natural resources, and problems of ecology (largely pollution).
442. Seminar in Environmental Values (P) Natural Resources  
 Richard A. Baer, Jr., Natural Resources  
 Cornell University  
 Ithaca, NY 14853  
 Intermediate  
 Grad/undergrad
- How the humanities, particularly religion, philosophy, and ethics, contribute to our understanding of the environment. In successive years, topics will include: (1) the role of non-utilitarian values in our relationship to our natural environment, (2) land ethics, and (3) new models for higher education in the age of ecology, (4) concepts of growth and progress in Western culture and their impact on our treatment of the environment.
443. Social Consequences of Human Evolution (P) University Seminars Program  
 Paul Sager  
 University of Wisconsin  
 Green Bay, WI 54302  
 Introductory  
 Undergrad
- Examines the basic changes in attitude and perceptions of need for the natural environment by the human organism as a consequence of our social and biological evolution. Included will be particular consideration of the ecological environmental ethic and the ways in which this ethic is exemplified today in our society.
444. Social Ecology 809-150-000  
 Robert J. Kuehl, Social Sciences  
 Waukesha County Technical Institute  
 Pewaukee, WI 53072  
 Introductory  
 Technical
- Social ecology or, more properly, human ecology focuses on the relationships and inter-relationships of human populations to the ecosystems of which they are a part. Overriding objective is to discover the sociological ramifications of the relationships.
445. Technology and Human Values (P) Philosophy and Geography  
 J. Clayton Feaver, Philosophy, and  
 Stephen Sutherland, Geography  
 University of Oklahoma  
 Norman, OK 73019  
 Honors  
 Undergrad sci/nonsci majors
- Consideration of the interplay between environment and human values.
446. Wilderness Biology I and II Biology  
 David E. Bixler, Biology  
 Chaffey College,  
 5885 Haven Avenue  
 Alta Loma, CA 91701  
 Advanced  
 Undergrad sci majors
- A field exploration of selected wildland regions with a field approach. Includes camping and hiking under wilderness conditions for four weeks. The intensive study of the region is holistic in approach and includes biological, geologic and historic aspects. Historical land use is compared with current practices. Land use values are discussed in light of the above investigation.

447. World Ecology  
 Charles Robinson, Malcolm Davies,  
 and Corlis Riddick  
 Community College of Baltimore  
 2901 Liberty Height Avenue  
 Baltimore, MD 21215
- Geography  
 Introductory  
 Undergrad nonsci majors

An introduction to the ecological problems of major concern in the world of today. Examines the problems of population, resources, pollution, and survival.

## 2.02. Global Problems and Strategies

448. American Issues  
 E. Long and J. Luongo  
 Clark Technical College  
 572 E. Leffell Lane  
 Springfield, OH 45501
- General Education  
 Introductory  
 Undergrad

Problem-oriented course which deals with ethical implications of ecological and population issues.

449. Chemistry and Your Environment  
 Robert Roy Kinther or Richard J. Landborg  
 Augustana College  
 29th and Summit Avenue  
 Sioux Falls, SD 57102
- Chemistry  
 Introductory  
 Nonsci majors

Assists the nonscience major in understanding the role chemistry plays in their lives. Topics of current interest (e.g., pollution, food additives) are discussed and the chemical principles required for their understanding are developed. The ethical and moral implications of the impact of chemistry in particular and science in general on our environment are discussed.

450. Culture, Life Style and Science in a No-Growth World (P)  
 N. L. Petrakopoulos, Environmental Science  
 and Senior University Seminar  
 University of Wisconsin  
 Green Bay, WI 54302
- University Seminars Program  
 Advanced  
 Undergrad sci/nonsci majors

This course focuses on the implications of the pressures of population growth coupled with limited resources, the possibility of steady-state economic systems, technological changes, and possible effects on everyday life. What would life be like in a steady-state, no-growth society? In what ways would people search for status and satisfaction? What kinds of spiritual and cultural growth might still be possible? In exploring these questions, this course considers how education can come to terms with the problem of no-growth so that citizens can seek to change their values and social attitudes, invent new technologies, and create imaginative and highly responsive new democratic systems.

451. Dynamics of World Hunger  
 W. H. Osterle, Theology; G. Srivastava, Physics;  
 W. Haab, Chemistry; and S. Kohli, Business  
 University of Scranton  
 Scranton, PA 18510
- Interdisciplinary  
 Advanced  
 Undergrad

Focus on national and international problem of hunger and question of adequate food resources and uses of resources. Politics of food production; economics of food. Issues of nutrition. Ethics of solutions proposed.

452. Ecology, Evolution and Human Values  
George K. Reid and Sheila Hanes, Philosophy  
Eckerd College  
P.O. Box 12560  
St. Petersburg, FL 33733
- NVS  
Introductory  
Undergrad sci/nonsci majors

This course is designed to affirm the importance of human values by dealing with environmental and social issues and in planning the evolutionary future of man's culture. Topics such as the effect of natural geologic and evolutionary processes, world nutrition and agriculture, population control, social evolution, disposal of wastes, use of energy and the support of natural resources will be studied.

453. Energy Alternatives and Societal Values:  
Technology Assessment for Non-Engineers  
Charles E. Bond, Aeronautical and  
Astronautical Engineering  
University of Illinois  
Urbana, IL 61801
- Aeronautical and Astronautical  
Engineering  
Introductory  
Undergrad/grad sci/nonsci,  
law, and others

The energy-environment crisis as a sample societal problem for which there are alternative technological and nontechnological "solutions." Aesthetic, environmental, and human consequences of each alternative. Pertinent physical concepts. The function of values in the development and resolution of the energy-environment problem, student participation in role playing; panel discussions, and value clarification strategies.

454. Energy and Society (P)  
Thomas J. Connolly, Mechanical Engineering  
Stanford University  
Stanford, CA 94305
- Mechanical Engineering  
Undergrad

A unified analysis of the effects on man's environment of the production, distribution and consumption of energy. Treatment will include: the kinds and magnitude of energy resources; the various technologies for conversion to electric energy and other consumer forms; priorities and strategies for future development; the social conflicts between growing demands and environmental degradation; technological assessment; the legal and economic framework of the energy industry. Presentation of technical information will be in terms understandable to the non-engineering student.

455. The Energy Problem  
David J. Cowan  
Gettysburg College  
Gettysburg, PA 17325
- Interdisciplinary Studies  
Introductory  
Undergrad sci/nonsci majors

The course consists of a study of energy principles and how they affect the various energy technologies. Energy resources and the social and economic aspects of energy are also studied.

456. Ergs and Genes  
Roger Anderson, Physics  
Seattle Pacific College  
3307 3rd Avenue West  
Seattle, WA 98119
- Natural and Math Sciences  
Introductory  
Undergrad

Study of scientific principles involved in energy production and use, value aspects of energy crisis, principles of modern genetics, issues in human genetic manipulation, introduction to evolution.

457. Ethics in a Technological Era Environmental Science  
 Jeffrey Bland, Environmental Science  
 University of Puget Sound  
 Tacoma, WA 98416  
 Environmental Science  
 Undergrad sci/nonsci majors
- The objective of this course is to help students to achieve the ability to think about the immediate and long-term future of the planet. Relation of a student's education to world problems such as population, nuclear potential, environmental deterioration and economic growth will be the focus of study.
458. Feast and Famine: A World Problem in Perspective Biology  
 E. E. Weber, Biology  
 Keuka College  
 Keuka Park, NY 14478  
 Advanced (sophomore and above)  
 Undergrad nonsci
- Designed for nonscience students; implications of science related to a major world problem (food supply/demand); emphasis on ethical and social effects of choices for the future.
459. Food, Population and Energy Theology  
 Basil O'Leary, Theology  
 University of Notre Dame  
 Notre Dame, IN 46556  
 Advanced  
 Undergrad
- Interdisciplinary course examines "structural violence" in the use and distribution of food and energy in relation to population growth. From the standpoints of the biological and social sciences the current world situation is assessed and then reflected upon theologically and philosophically.
460. Food, Public Policy, and Innovation Western  
 John H. Perkins, Western College  
 Miami University  
 Oxford, OH 45056  
 Advanced  
 Undergrad
- The course covered the nature of the world food problem from an economic, political, philosophical, biological, agricultural, and nutritional viewpoint. It raised and attempted to answer the question of whether and how agricultural innovations might alleviate malnutrition. It also explored the types of policies needed or likely to be implemented for advancing agricultural technologies.
461. Geography of Population Geography  
 University of Illinois at Chicago Circle  
 P.O. Box 4348  
 Chicago, IL 60680  
 Undergrad/grad
- Broad treatment of the problems created by the changing distributions and numbers of the world's population. Emphasis on the relationships between population and resources; intensive study of the implications for both overpopulated and underpopulated world areas.
462. Global Problems and Human Survival Philosophy, Biology, and Economics  
 Ronald Glossop, Philosophy;  
 Richard Parker and Marion Kumler, Biology; and  
 Rashool Hashimi, Economics  
 Southern Illinois University  
 Edwardsville, IL 62026  
 Introductory  
 Undergrad sci/nonsci, nursing
- A team-taught interdisciplinary course addressed to the issues of the survival of the human race in the face of complex interrelated problems such as war, underdevelopment, population, pollution, resource depletion, and misuse of the ocean.

463. Human Ecology  
Richard Haas  
California State University  
Fresno, CA 93740
- Biology  
Upper division  
Undergrad sci/nonsci majors
- Basic ecological principles as they apply to man and his activities. Consideration of ethical issues attendant upon population growth, resource depletion, extinctions, world hunger.
464. Introduction to Environmental Studies  
Jack Peck, Biology; David Jerde, Physics;  
and John Phillips, Philosophy  
St. Cloud State University  
St. Cloud, MN 56301
- Environmental Studies Program  
Introductory  
Undergrad
- Interdisciplinary, team-taught approach to overpopulation, pollution, limits-to-growth, impact of technology, political and economic obstacles to change, attitudes and values changes needed, lifestyle impact.
465. Man and His Environment  
Elmo A. Law and Earl Munger  
University of Missouri  
Kansas City, MO 64110
- Biology  
Introductory  
Undergrad sci/nonsci majors
- To acquaint the student with ecological principles and their relationship to global environmental problems. The course is a practical one for both science and nonscience majors and emphasizes scientific, social, economic, political, and moral issues
466. Modern Society and Science  
George Allen, Mavis McCormic, and  
Physical Sciences and Engineering  
Mt. San Antonio College  
Walnut, CA 91789
- Physical Sciences and  
Engineering  
Undergrad
- The relevance of science and technology to problems of modern civilization is evaluated. Man's exploitation of resources, changes in the quality of life, suburban sprawl and rural blight, pollution, and population explosion are studied as related to the capacity of scientific technologies to escalate or retard the current trends.
467. The Nuclear Age: Energy Options and the Environment  
G. T. Hageseth and Gerald Meisner, Physics  
University of North Carolina  
Greensboro, NC 27412
- Physics  
Introductory  
Undergrad sci/nonsci majors
- The societal impact of past, present, and future interactions of science and society. Emphasis is placed on nuclear energy and the energy crisis.
468. Overcoming World Hunger--Policies and Strategies for Action (P)  
Robert H. Maier, SEC and EA  
University of Wisconsin  
Green Bay, WI 54302
- 925-401/402, Sec. 3  
Advanced  
Undergrad sci/nonsci majors

This seminar focuses on the development of practical, and perhaps new, approaches to overcoming world hunger by a better understanding of the significant contributions that can come from the humanities and social sciences and amalgamating these contributions with the "hard sciences."

469. Population Ethics Biology//Philosophy  
 Marie T. Dimond, Biology; and  
 Helen J. John, Philosophy  
 Trinity College  
 Washington, DC 20017  
 Introductory/advanced  
 Undergrad/grad nonsci, philos-  
 ophy majors

Interdisciplinary approach: scientific advances, social context and human values in population policy. The World Population Plan of Action: evolution and environment; limits to growth; fertility control; education for responsible parenthood; effect on status of women; issues in applied genetics; future.

470. Population, Human Behavior and Food (P) Biology, Philosophy,  
 Joseph Harris, Biology; Tom Rowe, Psychology; Religious Studies, Humanities  
 Baird Callicott, Philosophy; and Jay Cravens, Advanced  
 Natural Resources Undergrad/grad, sci/nonsci  
 University of Wisconsin majors  
 Stevens Point, WI 54481

Population control and the ethical issues involved, results of high population density, the evolution of humanity, and potential and limitations for food production..

471. Problems in a Technological Society Natural Science  
 William R. Pasterczyk, Jurgis A. Anysas, Introductory  
 and Avrom Blumberg, Chemistry Undergrad nonsci  
 DePaul University  
 1036 West Belden Avenue  
 Chicago, IL 60614

Detailed discussions of one or two current social problems such as: modern warfare and disarmament, pollution, population and resources, food additives, drugs.

472. Problems in Science and Society Science  
 Carl S. Oplinger, Biology; David N. Stehly, Introductory  
 Chemistry; and Robert F. Milligan, Physics Undergrad sci/nonsci majors  
 Muhlenberg College  
 Allentown, PA 18104

The course examines topics which may eventually determine man's continued existence on earth, such as: energy production, resource utilization, environmental pollution, food production, overpopulation, third world development, and genetic manipulation. Student debates are widely used to encourage students to study both sides of a controversial issue.

473. Resource Utilization and the American Character (P) University Seminars Program  
 Michael Morgan Introductory  
 University of Wisconsin Undergrad  
 Green Bay, WI 54302

We are the "Arabs of the food world." We are one of only four countries that regularly have extra food to sell or give away to other nations. Yet with increasing population demands and unfavorable weather, we soon may be able to feed only ourselves. This module will emphasize the use of simulation games and small group discussions to understand interrelations and different viewpoints on the issues of the distribution of food. Evaluation of students will be based upon in-class discussions, book critiques, and one paper.

474. The Steady State . . . Is It Necessary for Survival? Social Studies  
 Heinz Bertelsmann, Government Introductory  
 Bard College Undergrad  
 Annandale-on-Hudson, NY 12504

Effects of pollution on the ecosystem, the pressures created by population growth and rising standards of living on the finite resources of land, minerals and energy. Extensive consideration of the moral implications and economic and political measures necessary to assure the survival of humanity and planet earth.

475. Technology and Ethics Philosophy and Religion  
 D. Goldsmith, Religion/Philosophy; Introductory  
 J. Cameron, Economics; and A. Willems, Undergrad  
 Industrial Arts  
 McPherson College  
 McPherson, KS 67460

Introductory analysis of global problems, critical history of efforts to solve same from anthropological and ethical points of view.

476. World Hunger Religion  
 John DeTurck, Biology; and Introductory  
 Suzanne C. Toton, Religion Undergrad  
 Cabrini College  
 Radnor, PA 19087

An in-depth study of the causes of and remedies for world hunger. Course includes topics of nutrition, politics and economics of hunger, domestic hunger and alternative lifestyles.

477. World Hunger Philosophy, Government,  
 Sr. Mary Brian, Nursing; Interdisciplinary  
 R. L. Cunningham, Philosophy; and Introductory  
 Scott McElwain, Government Undergrad  
 University of San Francisco  
 San Francisco, CA 94117

Course deals with the nutritional, political, and ethical dimensions of world hunger.

## 5. HEALTH CARE, LIFE SCIENCES, BEHAVIORAL SCIENCES

3.01. Social/Philosophical Perspectives of Biomedical Sciences

478. Alcohol and Drug Abuse Social Work  
 Frank E. Ladwig, Social Work  
 University of Wisconsin  
 Madison, WI 53706  
 Advanced  
 Undergrad/grad, sci/nonsci,  
 law, medicine, business,  
 agriculture
- Presentation of social, legal, political and ethical considerations surrounding the use and abuse of alcohol and psychotropic drugs in the U.S. Ethical and value clarifications of practitioner intervention.
479. Ancient Medicine (P) Classical Civilization  
 Kathryn A. Thomas, Classics  
 Creighton University  
 Omaha, NE 68178  
 Introductory  
 Undergrad, pre-health science  
 and nursing
- Study of the development of medical and surgical techniques and the philosophical, religious, sociological, political, and literary aspects of health care delivery in the ancient world; reading of classical medical treatises.
480. Bioecology of Health Natural Science  
 Andrew McClary and  
 Marvin D. Solomon, Natural Science  
 Michigan State University  
 East Lansing, MI 48824  
 Upper classmen  
 Undergrad nonsci
- Health viewed as environmental adaptation. Implications of this view, especially re these questions: What has caused different health problems to arise through time and cultural change? How may an optimum state of health be achieved? Is a health "utopia" possible?
481. Death and Dying Seminar Human Resources Development  
 William C. Fish, Education  
 Oakland University  
 Rochester, MI 48063  
 Advanced  
 Undergrad, pre-counseling
- A historical, philosophical, cultural, theological and psychological study of the phenomenon of death, with particular emphases on counseling the dying and explaining death to children. Students are pre-counseling or helping profession clientele, undergraduates. Course is a research seminar, with emphasis on individual projects and contributions to general discussion.
482. Dilemmas in Healing: Medical, Social  
 and Religious Perspectives Preventive Medicine, Sociology,  
 Religious Studies  
 Andrew Sorensen, Preventive Medicine and Sociology;  
 H. R. Halcomb, Philosophy and Religious Studies;  
 William Greene, Medicine and Psychiatry; and  
 William Green, Religious Studies  
 University of Rochester  
 Rochester, NY 14627  
 Introductory  
 Undergrad/grad sci/nonsci  
 majors

A working seminar focusing on medical ethics, we will discuss dilemmas related to the following topics: the language of ethics, western religious and cultural perspectives on healing, the rights of patients, advertising of drugs, solicitation of informed consent, organ transplantations, and care of terminally ill.

483. Ethics and Medicine  
 David Ozar, Philosophy  
 Loyola University  
 6525 N. Sheridan Road  
 Chicago, IL 60626
- Philosophy  
 Intermediate  
 Undergrad sci majors (pre-med,  
 pre-dental, nursing, others)

This course in the social philosophy of medicine examines patterns of action, judgment, value that characterize medicine as a complex social institution. Topics include: conceptions of health and disease and the aims of medical practice; distributional criteria and the right to health care; practitioner-patient relations deriving from medicine's status as a profession.

484. Health and Society  
 Russell C. Maulitz, History and Sociology of Science  
 University of Pennsylvania  
 Philadelphia, PA 19104
- History and Sociology of  
 Science  
 Introductory  
 Undergrad sci/nonsci majors,  
 business administration

Schematic approach to problems of health and society in historical perspective: (1) changing concepts of disease, perceptions of disease, and impacts of disease. (2) changing role of healers and health providers; (3) changing modes of health care in western society.

485. Health Care, Society and Values (P)  
 Charles J. Dougherty, Philosophy  
 Creighton University  
 Omaha, NE 68178
- Philosophy  
 Advanced  
 Undergrad sci

A medical ethics course focusing on the conflict between individual and society.

486. History and Ethics of Health  
 Rosa Lynn Pinkus  
 Graduate School of Public Health  
 University of Pittsburgh  
 Pittsburgh, PA 15261
- Health Services Administration  
 Advanced  
 Grad

An interdisciplinary seminar approach is used to provide graduate students in the Health Center with an understanding of the historical and ethical foundations of the contemporary health care system in the United States. History, philosophy, political sciences, and social psychology perspectives are used. Topics are analytically rather than chronologically presented.

487. Human Dimensions of Biomedical Innovations (P)  
 David L. Ellison, Sociology  
 Rensselaer Polytechnic Institute  
 Troy, NY 12181
- Sociology  
 Advanced  
 Undergrad/grad sci, pre-med,  
 biomed engineers

How do the products of biomedical technology affect us as taxpayers, patients, care-givers, technicians, inventors, developers and responsible participants in human communities? The course first studies the role of technology in society, then the nature and scope of biomedical technologies with emphasis on role changes and role conflicts in those associated with new developments. Three kinds of technologies are studied intensely: genetic intervention, artificial kidney, computer diagnosis. Student projects involve intensive case study of some biomedical technology.

488. Infectious Disease: An American Social History  
 Martin S. Pernick, Humanities  
 College of Medicine  
 Milton S. Hershey Medical Center  
 Pennsylvania State University  
 Hershey, PA 17033
- Humanities  
 Med school  
 Grad, med  
 Med students

Through history, the relation between the social and medical ecology of disease is presented, emphasizing the ethical, cultural, and legal dimensions of disease and medical decision-making.

489. Insight in the Humanities for the Physician (P)  
 Glenn R. Pratt, Allied Health  
 Medical College of Virginia  
 Richmond, VA 23298
- School of Medicine  
 4th yr med students  
 Med students

This course involves a wide-range evaluation of the relevance of human insights derived from history, philosophy, literature, and theology. Each student is encouraged to make his or her own study of a topic of special interest, e.g., the physician's role in time of suffering, pain, and death.

490. Legal Drugs: Use and Abuse (P)  
 Dennis Elsenrath, Psychology;  
 Joseph Harris, Gordon Geeseman, Biology; and  
 Robert Cassidy, Religious Studies  
 University of Wisconsin  
 Stevens Point, WI 54481
- Biology, Philosophy, Religious  
 Studies, and Humanities  
 Advanced  
 Undergrad/grad sci/nonsci

Drug development and marketing and the psychological, ethical, social and medical implications, and results of drug use.

491. Medicine and Society  
 Joan Smith, Sociology  
 Dartmouth College  
 Hanover, NH 03755
- Sociology  
 Intermediate  
 Undergrad, med students

Takes up the historical analysis of the rise of modern medicine and its technological/scientific focus and the analysis of its contemporary culture including ethical and value implications.

492. Medicine in Society (P)  
 Robert D. Reece and Harvey A. Siegal  
 Wright State University School of Medicine  
 P.O. Box 927  
 Dayton, OH 45401
- Medical School  
 Introductory  
 Med students

Examines the doctor-patient relationship from an ethical and sociological perspective.

493. Medicine in Society (P)  
 Robert D. Reece and Harvey A. Siegal  
 Wright State University School of Medicine  
 P.O. Box 927  
 Dayton, OH 45401
- Medical School (513 and 514)  
 Introductory  
 Medical students

513--Examines ethical and value concerns in medical service delivery.  
 514--Examines the family as a social institution and its effect on health and illness; examines community and the utilization of the human service delivery system; examines the organization of health care delivery.

494. Perspectives in Health Care  
Joyce Evanski, Allied Health  
Orange Coast College  
2701 Fairview Road  
Costa Mesa, CA 92626
- Allied Health  
Introductory  
Undergrad
- An overview of health care--the purpose; the patient; economic, political, and legislative influences; delivery systems; legal aspects; ethical considerations; team concept of care.
495. Philosophies of Health and Medicine  
Michael Adess, Biology; and  
Benjamin Page, Philosophy  
Quinnipiac College  
Mt. Carmel Avenue  
Hamden, CT 06518
- Philosophy  
Intermediate  
Undergrad sci/nonsci
- A critical examination of the assumptions underlying technologically based, scientifically oriented medicine, the resulting concept of "health," and of the practical socio-economic consequences of the application of such medicine in the advanced and in the underdeveloped countries. Alternatives such as primitive and folk medicine are also considered.
496. Philosophy, Biology and Medicine  
E. Manier, Philosophy  
University of Notre Dame  
Notre Dame, IN 46556
- Philosophy  
Advanced  
Undergrad/grad sci/nonsci  
majors
- Philosophy of biology: models, metaphors, and explanation, reduction and wholism, comparison of theoretical structure of evolution and molecular biology. Philosophy of medicine: comparison of anthropology and medical sciences, concepts of life, death, health. Ethics: evolutionary ethics, research on human subjects, respect for nature.
497. Philosophy of Medicine  
Bernard Gert, Philosophy; and  
Charles Culver, Psychiatry  
Dartmouth College  
Hanover, NH 03755
- Philosophy  
Advanced  
Undergrad
- Primary concern is with moral issues that arise in dealing with individual patients, e.g., paternalism, informed consent, euthanasia, abortion, and medical experimentation. Also an attempt to clarify concepts such as death, illness, and disease.
498. Philosophy of Medicine  
K. Danner Clouser and Arthur Zucker  
College of Medicine  
Milton S. Hershey Medical Center  
Pennsylvania State University  
Hershey, PA 17033
- Humanities  
Med School  
Med students
- Explores a variety of concepts, assumptions, methods, and characteristics, which are integral to medicine, yet seldom examined in and of themselves. A forum for pursuing the interesting, curious, and perplexing aspects of medicine in a fairly rigorous way.
499. Philosophy of Medicine  
Robert Baker, Philosophy  
Union College  
Schenectady, NY 12308
- Philosophy  
Advanced  
Undergrad
- An exploration of medical models, conceptions of health, disease, physician, patient, applied to questions of nature of mental illness, morality of biomedical research on human subjects.

500. Philosophy of Medicine Philosophy  
 Paul W. Sharkey, Philosophy Advanced  
 University of Southern Mississippi Undergrad sci majors  
 Hattiesburg, MS 39401

An introduction to the history and philosophy of medicine stressing the valuational aspects (cultural, aesthetic, moral) of our concepts of the nature and purpose of medicine, concepts of disease, health, life, death, and ethical problems arising from advancement of medical technology.

501. Philosophy of Medicine Psychiatry  
 Robert W. Daly, M.D., Psychiatry Advanced  
 Upstate Medical Center Med students  
 State University of New York  
 Syracuse, NY 13210

Through class discussion, texts, . . . the students deepen their humanistic knowledge of activities as physicians.

502. Philosophy of Medicine--An Examination of the Concept of Disease (P) Philosophy  
 H. Tristram Engelhardt, Jr., M.D., and Advanced  
 Rosemary Kennedy, Philosophy of Medicine Undergrad/grad sci/nonsci,  
 Kennedy Institute med  
 Georgetown University  
 Washington, DC 20057

The first third of this course will be an introduction to controversies concerning the concept of disease with special emphasis upon normative versus neutralist and ontological versus physiological construals of this concept. Here general problems concerning theory formation in medicine will be explored. The second third of this course will be a brief historical survey of the developments of modern concepts of disease with stress upon the contributions of certain people. The final section of the course will be on analysis of medical language with a view toward distinguishing explanatory versus evaluative, and descriptive versus explanatory components.

503. Philosophy of Medicine/Philosophy of Technology (P) Philosophy/Health Science  
 Paul Durbin, Philosophy/Health Science Advanced  
 University of Delaware Undergrad/grad, sci/nonsci  
 Newark, DE 19711 majors

Study of contemporary research community using the approach of social and political philosophy. Who makes the major decisions about research? What rights do individual researchers have? What control does a democratic society have over research? The biomedical research component of the course will focus on the development of the National Institutes of Health research program after WW II utilizing special documents on health research policy from the National Library of Medicine.

504. A. Religion and Health (P) Religion  
 B. Medical Problems and Society (P) Ethics  
 James J. Quinn, Philosophy and Theology Advanced  
 Creighton University Medical School Med students  
 Omaha, NE 68178

The medical student (senior) researches problems of his choice. He may take one month or more to do his research or field work and write up his findings. The goal is to publish his results.

505. Seminar in Social and Political Philosophy  
 Robert Baker, Philosophy  
 Union College  
 Schenectady, NY 12308

Philosophy  
 Advanced  
 Undergrad

Depending on interest of instructor, course usually deals with topics relevant to social philosophy of medicine--this year the concept of disease, last year euthanasia.

506. Social and Ethical Issues in Medicine (P)  
 Chase P. Kimball, M.D., Psychiatry/Medicine  
 Patti Tighe, Psychiatry/Medicine  
 James Gustafson, Divinity School  
 University of Chicago  
 Chicago, IL 60637

Psychiatry/Medicine/Social  
 Medicine  
 Introductory  
 Grad, med students

A course for first-year medical students addressing contemporary social and ethical issues in medicine, including the distribution of scarce resources, population control, termination of life, informed consent, confidentiality, suicide, right to refuse treatment, genetic counselling, care of the aged, defective new-born, role responsibility, right to refuse treatment. Examination of ethical concepts as means of making decisions around these issues.

507. Social Medicine (P)  
 Sheldon Greenfield, Medicine  
 Department of Medicine  
 University of California  
 Los Angeles, CA 90024

Social Medicine/Public Health  
 1st, 2nd year med students  
 Med students

A broad introduction to various important subjects in the social medicine and public health area, including the development and evolution of medical care organizations in the United States, the relation of minorities and the medical system, styles of medical practice, international health problems, legal and ethical issues in medicine.

508. Society, Culture and Health Care (P)  
 D. Ermann, Sociology; C. Leslie, Anthropology;  
 and G. Peters, Political Science  
 University of Delaware  
 Newark, DE 19711

Health and Life Sciences/  
 Sociology/Political Science/  
 Anthropology  
 Introductory  
 Undergrad, sci/nonsci, pre-  
 med, nursing, pre-med  
 professionals

An interdisciplinary study of the political, social, economic and humanistic issues of health care delivery, including issues of health care delivery problems, constraints on decisions, economic aspects.

509. Sociology of Health and Illness  
 David M. Weiss, Sociology  
 C. W. Post College  
 Hoxie Hall  
 Greenvale, NY 11548

Sociology  
 Advanced  
 Undergrad

The study of the interplay of the biological, the physical, the social, and psychological factors relating to health. Additionally, the study of the organization of health care delivery and the organization of health care professions.

510. Topics in the Humanities (P)  
Chester R. Burns, M.D.  
University of Texas Medical Branch  
Galveston, TX 77550
- Introductory  
Nursing, allied health
- Use of readings and discussion, to explore selected topics in the humanities and medicine, e.g. care of terminally ill patients, concepts of health and disease, child care in the United States.
511. Values in the Health Professions (P)  
Warren Reich, Community Medicine  
Georgetown University School of Medicine  
Washington, D.C. 20057
- Community Medicine  
Intermediate  
Grad/undergrad, med, nursing
- An interprofessional, interdisciplinary course that examines the value dimensions of health and health professions by various analytic methodologies; creative literature, sociology of medicine, and philosophy of medicine.
512. Values in the Living World  
Prof. Hutch, Religion, et al  
Southern Illinois University  
Carbondale, Illinois 62901
- Liberal Arts College  
Introductory  
Undergrad
- Starting with personal decisions people in health and biocareers must make, the course expands to wider and wider areas that must be considered in decision making until it reaches decisions involving the whole environment.

3.02. Law, Medicine, and the Life Sciences  
(Law and Biomedical Sciences)

513. Genetic Engineering and the Law  
Raymond G. Decker  
Lesley Andrus  
Loyola Law School  
1440 W. 9th Street  
Los Angeles, CA 90015
- Law  
Law students
- An interdisciplinary exchange between lawyers, geneticists and population planners and analyze the questions of the legal status of embryonic life, the determination of parenthood in experimental reproduction and the desirability of legal control over genetic experimentation and manipulation.
514. Law and Bioethics  
Sandra Shuman  
Wayne State University Law School  
Detroit, MI 48202
- SL 0659  
Advanced  
Law student
- Medical and legal problems, including the medicalization of morality, political psychiatry, peer review and human rights committees, informed consent, treatment of involuntarily detained patients, medical suppression of violence, human experimentation, and genetic manipulation.
515. Law and Biology  
Roger B. Dworkin, School of Law  
Indiana University  
Bloomington, IN 47401
- Law  
Advanced  
Law students
- Law's response to rapid social and scientific change. Examination of traditional and new legal tools for dealing with problems raised by family planning, population control, genetic disease, genetic engineering, scarce medical resources, death determination, organ transplantation, biohazards and experimentation with human subjects.

516. Law and Contemporary Problems: Law and Health Policy (P) Law School, Program in Medical Ethics  
 John Robertson Introductory  
 University of Wisconsin Law School Grad, law, med students  
 Madison, WI 53706

Major issues in legal regulation of health care enterprise with special emphasis on medical ethics, and innovation.

517. Law and the Life Sciences (P) Law School  
 A.M. Capron  
 Yale Law School  
 New Haven, CT 06520

Assessment of social response to selected problems created by biomedical developments. Seminar examines, e.g., (1) advances in genetics, such as screening and gene therapy for adults, prenatal diagnosis through amniocentesis, and neonatal screening, and the relation of these techniques to positive and negative eugenics; (2) mind and behavior control; (3) population control, including abortion, contraception, determination of the sex of offspring; (4) artificial and transplanted organs, which may raise questions not only about the definition of life and death but also about the allocation of scarce medical resources; and (5) techniques for prolonging life, consideration of "death with dignity."

518. Law and Medicine (P) Law School Cornell  
 H.R. Beresford, Cornell Medical School Seminar  
 L.I. Palmer, Cornell Law School Law student  
 Cornell Law School  
 Myron Taylor Hall  
 Ithaca, NY 14853

An examination of selected contemporary problems in law and medicine. Through the utilization of legislative proposals, cases, commission reports, and materials from medical literature, the course will explore the legal, ethical, medical, and jurisprudential issues raised by these contemporary problems.

519. Law, Medicine and Human Values (P) Law/Psychiatry  
 William J. Winstlade, Law and Psychiatry Prof school  
 School of Law Grad, law, medical  
 University of California  
 Los Angeles, CA 90024

Legal, philosophical, and psychological issues arising in context of the doctor-patient relationship. Value conflicts underlying and manifested in medical practices and legal policies.

520. Legal and Ethical Issues in Developmentally Disabled (P) Psychiatry  
 Alexander J. Tymchuk Grad  
 University of California  
 Los Angeles, CA 90024

Discussion of ethics, reason for need of ethics, process for ethical decision-making, applied to areas of concern of the developmentally disabled regarding rights, informed consent, sexuality.

521. Legal Aspects of Medicine Allied Health  
Introductory  
Undergrad  
Margie Willis  
Orange Coast College  
2701 Fairview Road  
Costa Mesa, CA 92626

Legal responsibilities and potential legal problems encountered within the health care system. Emphasis on role and responsibilities of allied health personnel.

522. Legal Aspects of Nursing: Issues and Decision-Making Department of Nursing  
Continuing Education  
RN, LVN  
Lillian E. Taubert, Nursing Education  
San Antonio College  
1300 San Pedro  
San Antonio, TX 78284

This course is designed for nurses working in hospitals, nursing homes, and clinics. Course content will focus on examining problems and situations having legal and ethical implications for nurses and examining individual value systems in making decisions about the nurse's role in legal and ethical problems and situations.

523. Legal Regulation of Biomedical Sciences (P) Law school  
R.A. Burt  
Yale Law School  
New Haven, CT 06520

Seminar covers current legislation about the proper uses of biomedical science and techniques for resolution of such questions. Discussion of: Who is a proper candidate for medical treatment, regarding the "protesting patient," the incompetent patient" or the "coerced patient," proper medical intervention, including genetic manipulation or psychosurgery for social control purposes or experiments on persons intended only to benefit others. Proper roles of various institutional techniques for resolving these questions, including legislation, litigation and professional or patient self-regulation.

524. Medical Ethics Philosophy  
Advanced  
Undergrad  
John Arras, Philosophy  
University of Redlands  
Redlands, CA 92373

Study of moral and legal theories will be applied to problems in the medical context. Various ethical and social theories will be applied to problems of current interest, such as euthanasia, human experimentation, health-care distribution.

525. Medical Legal Problems SL  
Advanced  
Law  
Jane Friedman  
Wayne State University Law School  
Detroit, MI 48202

Current problems in medical malpractice law (arbitration and insurance) as well as issues arising from recent advances in bio-medical technology (amniocentesis, fetal experimentation, and bio-hazards).

526. Medicine, Law and Society (P)  
 Bernard Towers, Pediatrics and  
 Anatomy  
 William J. Winslade, Law and  
 Psychiatry  
 University of California  
 Los Angeles, CA 90024
- Council on Educational  
 Development  
 Introductory  
 Undergrad, sci, nonsci

The purpose of the course is to discuss medical-legal problems such as abortion, behavior modification, child abuse, attempted suicide, sex-change treatment and euthanasia. Seminars are preceded by interdisciplinary panel discussions recorded live on videotape at meetings of the Medicine and Society Forum, UCLA. These problems are examined in the light of background reading from law, medicine and philosophy.

527. Nursing in Society  
 Lois Linn, Helen Kramer, and  
 Mary Hemelt  
 Department of Nursing  
 Essex Community College  
 Baltimore, MD 21237
- Nursing  
 Undergrad

Provides an acquaintance with historical perspectives, ethical-legal implications on current trends as they affect the practice of the nursing graduate.

528. Pediatrics, Ethics, and the Law: Workshop 2 (P)  
 Angela Holden  
 William G. Bartholome, M.D.  
 Institute of Society, Ethics, and the Life  
 Sciences  
 360 Broadway  
 Hastings-on-Hudson, NY 10706
- Institute of Society, Ethics  
 and Life Sciences  
 Physics, nurses and social  
 workers

The workshop will examine the ethical issues surrounding the medical and health care of children. Principal topics include: care of newborn and chronically ill child, experimentation involving children, child abuse, sexuality, the death of the child. The workshop opens with an overview of childhood in western civilization and the child in Anglo-American common law and statutory law.

529. Pharmacy Law  
 Daniel Holstrom  
 College of Pharmacy  
 University of Minnesota  
 Minneapolis, MN 55455
- Pharmacy  
 Introductory  
 Undergrad

A programed instruction of pharmacy law and ethics.

530. Practice Administration and Jurisprudence  
 Billy E. Hooper, Administration  
 School of Veterinary Medicine  
 Purdue University  
 Lafayette, IN 47907
- Veterinary Medicine  
 Professional  
 Veterinary students

A series of lectures and readings designed to expose the student to those principles of law and ethics that govern the behavior of the veterinarian and the veterinary profession.

3.07 Biomedical Ethics

## Biomedical Ethics (General)

531. Advanced Residence in Medical Ethics (P) Philosophy  
Advanced  
Grad  
Glenn C. Graber and  
L.B. Cebik, Philosophy  
Charles H. Reynolds, Religious Studies  
University of Tennessee  
Knoxville, TN 37916

A program of intensive study, lasting approximately two months, at some appropriate clinical or research center. The Knoxville faculty and the resident supervisors will work together with the student to co-ordinate this unit of study with the student's chosen dissertation topic.

532. Bioethics Interdepartmental Studies  
Introductory  
Undergrad  
Rev. Brother Charles Duffy  
Iona College  
New Rochelle, NY 10801

A relevant look at some of the essentials of modern biology for the nonscientist to provide knowledge and understanding of new techniques which are being investigated for the manipulation and control of man's physiology and heredity. This investigation is followed by a timely examination of the ethical and moral questions inherent in such manipulative techniques as genetic engineering, cloning, surrogate motherhood, sperm banking, etc.

533. Bioethics in Perinatology (F) Pediatrics and Preventive  
Medicine  
Introductory  
Med  
Michael G. Blackburn, M.D.  
John H. Sorenson,  
Medical College of Pennsylvania  
3300 Henry Avenue  
Philadelphia, PA 19129

This course considers ethical issues in relation to major concerns of perinatology: conception, gestation, birth and post-natal care. Ethical concerns for rights and duties of physicians, staff and patients.

534. Birth Defects Biology  
Advanced  
Undergrad, sci  
Arlan Edgar, Biology  
Alma College  
Alma, MI 48801

Content includes impact on parents and society of birth defects; drug-induced birth defects; societal intervention to alleviate birth defects; genetically based birth defects; affects of radiation; nutritionally based birth defects; environmentally induced birth defects.

535. Clinical Medical Ethics: Workshop 3 (P)  
 K. Danner Clouser and  
 William Nelson  
 Institute of Society, Ethics, and the  
 Life Science  
 Hastings-On-Hudson, NY 10706

Institute of Society, Ethics  
 and Life Science  
 Post grad

Workshop presentations will be made by clinicians who have had personal experience in confronting moral problems in medical practice. Visits to an ICN and an adult ICU and demonstrations of various life-support equipment will be made. Discussions will be held throughout the week on both the clinical and theoretical aspects of moral problems in medicine.

536. Ethical Dilemmas in Health Care  
 D. Thomasma, J. Shaw and  
 J. Pisaneschi  
 Human Values and Ethics  
 University of Tennessee  
 66 N. Pauline  
 Memphis, TN 38163

Humanities  
 Introductory  
 Grad, Med, health profession

Using an ethical workup developed for the course, students first are taught its method, then solve cases with readings attached in groups.

537. Ethical Issues in Medical Practice  
 John J. Pilch, Preventive Medicine  
 Medical College of Wisconsin  
 561 North 15th Street  
 Milwaukee, WI 53233

Department of Preventive Medi-  
 cine  
 Multidisciplinary  
 Med students

Simultaneous with two student projects the course reviews the major health problems families may encounter and their concerns. The health care system and legal structure of society is also investigated and all of the preceding is reviewed within the ethical framework for medical practice.

538. Ethical Issues in Medicine (P)  
 Norman Fost, M.D., Pediatrics  
 University of Wisconsin  
 Madison, WI 53706

History of Medicine  
 Introductory  
 Grad, med. law

Six paradigms in medical ethics, designed to raise and coordinate with theoretical basis for analyzing and resolving ethical dispute.

539. Ethics and Health Care (P)  
 Clayton Rowland and  
 Albert Wertheimer  
 University of Minnesota  
 Minneapolis, MN 55455

Pharmacy  
 Introductory  
 Pharmacy

Discussion of ethics and the role of the pharmacist in health care. Considered are both pharmacy and the effect of health policy on ethical issues in pharmacy today.

540. Health and Disease in Historical Perspective  
 Russell Maulitz, Medicine and History of  
 Science  
 University of Pennsylvania  
 Philadelphia, PA 19174

Advanced  
 Undergrad/grad, med

Diseases of medical progress, iatrogenicity, milestone in scientific medicine, medical specialization and the research model, aging, death and suicide, ethical and scientific aspects.

541. Introduction to Mental Health Programs  
 Gladys B. Baxley, Psychology  
 University of Illinois  
 Urbana, IL 61801
- Psychology  
 Advanced  
 Grad/undergrad

Historical foundations, schema for classification of mental health delivery systems, contemporary treatment strategies, ethical and legal issues, and alternatives to institutional treatment.

542. Medical and Business Ethics (P)  
 Francis J. Kovach, Philosophy  
 University of Oklahoma  
 Norman, OK 73019
- Philosophy  
 Introductory/advanced  
 Undergrad/grad

In the introductory part, basic moral concepts, such as morality, norm and principles of morality are discussed. In the practical part of the course, the basic moral principles are applied to the business and moral issues; the latter concern the physician, the patient and medical institutions from the view points of justice, prudence and love.

543. Medical Ethics  
 James P. Hanigan, Philosophy, Religion  
 Villa Maria College  
 2551 W. Lake Road  
 Erie, PA 16505
- Humanities  
 Introductory  
 Undergrad

An analysis of the relationship between patients and medical personnel, with particular attention to issues such as consent, experimentation, transplants, death and dying, genetic counseling, etc.

544. Perspectives in Ethics: Death and Dying  
 Graydon Dean Luthey, Jr., Philosophy  
 University of Oklahoma  
 Norman, OK 73069
- Philosophy  
 Junior/Senior  
 Undergrad, sci/nonsci

Course deals with such topics as: Western philosophical traditions on death and the after death experience; the definition of death and when it happens in medicine, law and religion; funerals; ethical dilemmas--abortion, suicide, capital punishment.

[545-708] Courses 545-708 all examine various ethical and moral questions that have arisen with the recent technological advances in biology and medicine. These courses are sufficiently similar to warrant our using the following common course description:

An examination of ethical and moral questions that have arisen with recent technological advances in biology and medicine. Issues are examined from the perspective of the humanities, the social sciences, or biology. Topics typically include abortion, euthanasia, allocation of scarce medical resources, genetic counseling, experimentation on human subjects, iatrogenic problems, and occasionally problems such as population and food distribution.

545. Bioethical Decision-Making \*  
 Jon R. Hendrix, Biology  
 Ball State University  
 Muncie, IN 47306
- Biology  
 Advanced  
 Undergrad/grad, sci/nonsci,  
 nurses, biology teachers

\*The description of this course appears above between course numbers 544 and 545.

546. Bioethical Questions \*  
 Philibert Hoebbing, Philosophy  
 Quincy College  
 18th and College  
 Quincy, IL 62301  
 Philosophy  
 Advanced  
 Undergrad, sci/nonsci/med
547. Bioethics \*  
 S. Greenfield, Religious Studies  
 Howard S. Grob, Biology  
 Adolph University  
 Garden City, NY 11530  
 Religious Studies  
 Advanced  
 Undergrad
548. Bioethics \*  
 Rev. Thomas W. Hogan  
 Chaminade College of Honolulu  
 3140 Waiālae Avenue  
 Honolulu, HI 96816  
 Religious Studies  
 Undergrad
549. Bioethics \*  
 Rev. John W. Flavin  
 College of the Holy Cross  
 Worcester, MA 01610  
 Biology  
 Introductory  
 Undergrad
550. Bioethics (P)\*  
 V.R. Walker, Philosophy  
 Creighton University  
 2500 California Street  
 Omaha, NE 68178  
 Philosophy  
 Advanced  
 Grad/undergrad
551. Bioethics \*  
 Stanley T. Sutphin  
 Elizabethtown College  
 Elizabethtown, PA 17022  
 Philosophy  
 Advanced  
 Undergrad, sci/nonsci
552. Bioethics \*  
 R.T. Francoeur, Biology  
 Fairleigh Dickinson University  
 285 Madison Avenue  
 Madison, NJ 07940  
 Biology  
 Introductory  
 Grad/undergrad, sci/nonsci,  
 allied health
553. Bioethics \*  
 Jack Hanford, Humanities, Philosophy  
 Ferris State College  
 Johnson Hall  
 Big Rapids, MI 49307  
 Humanities  
 Undergrad
554. Bioethics \*  
 Sr. R. Connell, Life Science  
 Fontbonne College  
 6800 Wydown  
 St. Louis, MO 63105  
 Life Science  
 Introductory  
 Undergrad

\*The description of this course appears on page 128 between course numbers 544 and 545.

555. Bioethics \*  
George A. Kanoti  
John Carroll University  
University Heights, OH 44118  
Religious Studies  
Advanced  
Undergrad/grad
556. Bioethics \*  
John C. Wilson, Religion, Philosophy  
Lees-McRae College  
Banner Elk, NC 28604  
Religion, Philosophy, Biology  
Introductory  
Undergrad, sci/nonsci
557. Bioethics \*  
W.P. Brown  
Marietta College  
Marietta, OH 45750  
Biology  
Advanced  
Undergrad, sci/nonsci
558. Bioethics \*  
Mary Jo Parrish, Philosophy  
Janet Cobb, Biology  
Mary Washington College  
Fredericksburg, VA 22401  
Biology, Philosophy  
Sophomore  
Undergrad, sci
559. Bioethics \*  
Ronald E. Benson, Philosophy and Religion  
Ohio Northern University  
Ada, OH 45810  
Philosophy  
Advanced  
Undergrad, sci/nonsci, pre-  
med, pre-law, pharmacy
560. Bioethics (P) \*  
Laurence A. Larson, Botany  
Ohio University  
Athens, OH 45701  
Botany  
Introductory  
Undergrad, nonsci
561. Bioethics \*  
Donnie J. Self, Philosophy  
Thomas Mainor, Philosophy  
Old Dominion University  
Norfolk, VA 23508  
Philosophy  
Introductory  
Undergrad, sci
562. Bioethics \*  
H.R. Cameron, Botany  
Warren Hovland, Religious Studies  
Oregon State University  
Corvallis, OR 97331  
University  
Advanced  
Undergrad, sci/nonsci/med
563. Bioethics \*  
Patricia A. Lorenz, Biology  
Penn Valley Community College  
3201 Southwest Highway  
Kansas City, MO 64111  
Biology  
Introductory  
Undergrad, sci/nonsci
564. Bioethics \*  
Philbert Hoebbing, Philosophy  
Quincy College  
1831 College Avenue  
Quincy, IL 62301  
Philosophy  
Advanced  
Undergrad, nonsci/nurses

\*The description of this course appears on page 128 between course numbers 544 and 545.

565. Bioethics \*  
Staff  
South Dakota State University  
Brookings, SD. 57006  
Biology  
Introductory  
Undergrad/grad. sci/nonsci
566. Bioethics \*  
Marie T. Diamond, Biology  
Trinity College  
Washington, D.C. 20017  
Biology/Philosophy  
Introductory/advanced  
Grad/undergrad, sci/nonsci
567. Bioethics \*  
University Studies/Weekend College  
Wayne State University  
Detroit, MI 48202  
Science and Technology  
Introductory  
Undergrad, nonsci/working adult
568. Bioethics \*  
R.L. Cunningham, Philosophy  
University of San Francisco  
San Francisco, CA 94117  
Philosophy  
Introductory  
Undergrad, sci
569. Bioethics \*  
Peter Y. Windt, Philosophy  
University of Utah  
Salt Lake City, UT 84112  
Philosophy  
Introductory  
Grad/undergrad, sci/nonsci/law
570. Bioethics \*  
John A. Freeman, Biology  
Winthrop College  
Rock Hill, SC 29733  
Honors  
Advanced
571. Bioethics: Issues in Ethics, Medicine and the Life Sciences \*  
Joseph A. La Barge, Religion  
Bucknell University  
Lewisburg, PA 17837  
University Course  
Introductory  
Undergrad, sci/nonsci
572. Bioethics: Moral Issues in the Control of Life and Death \*  
Daniel R. DeNicola  
Rollins College  
Winter Park, FL 32789  
Philosophy  
Introductory, advanced  
Undergrad, sci/nonsci
573. Bioethics - Seminar \*  
Edwin W. House  
Idaho State University  
Pocatello, ID 83201  
Biology  
Advanced  
Grad
574. Biological Problems: Social and Ethical Implications \*  
Robert E. Holtz, Biology  
Concordia College  
St. Paul, MN 55104  
Biology/Sociology  
Advanced  
Undergrad

\*The description of this course appears on page 128 between course numbers 544 and 545.

- 547A. Biology and Contemporary Ethical Issues \*  
Biology Staff  
Thomas More College  
Ft. Mitchell, KY 41017  
NSC 249  
Introductory  
Undergrad
575. Bio-Medical Ethics \*  
Charles Carr, English, Philosophy and  
Language  
Arkansas State University  
State University, AR 72467  
Philosophy  
Introductory  
Undergrad, sci/nonsci
576. Biomedical Ethics \*  
Ronald Uritus, Philosophy  
Barry College  
Miami FL 33161  
Philosophy/Religious Studies  
Advanced  
Undergrad, sci/nonsci majors
- 577.\* Biomedical Ethics \*  
Marion Kayhart, Biology  
Cedar Crest College  
Allentown, PA 18104  
Biology  
Introductory  
Undergrad, sci/nonsci
578. Biomedical Ethics \*  
Susan Nicholson, Philosophy  
Chatham College  
Pittsburgh, PA 15232  
Philosophy  
Introductory  
Undergrad
579. Biomedical Ethics \*  
James E. Abbott, Philosophy  
College of Charleston  
Charleston, SC 29401  
Philosophy  
Introductory  
Undergrad, sci/nurses
580. Biomedical Ethics (P)\*  
S.M. Brown, Science, Technology and Society  
Cornell University  
Ithaca, NY 14853  
Biological Science/Philosophy  
Introductory  
Undergrad, sci/nonsci
581. Bio-Medical Ethics \*  
D.L. Kimmel, Jr., Biology  
Davidson College  
Davidson, NC 28036  
Biology  
Advanced  
Undergrad
582. Biomedical Ethics \*  
Richard L. Trammel, Philosophy  
Grove City College  
Grove City, PA 16127  
Philosophy  
Introductory  
Undergrad, sci/nonsci
583. Bio-Medical Ethics \*  
James L. Muyskens, Philosophy  
Hunter College  
City University of New York  
New York, NY 10021  
Philosophy  
Introductory  
Undergrad, med, nursing

\*The description of this course appears on page 128 between course numbers 544 and 545.

584. Biomedical Ethics \*  
Michael Gorr, Philosophy  
Illinois State University  
Normal, IL 61761  
Philosophy  
Introductory  
Undergrad
585. Biomedical Ethics \*  
James A. Todd, Religion  
Lake Erie College  
Painesville, OH 44077  
Religion  
Introductory  
Undergrad
586. Biomedical Ethics \*  
Rev. Milton Gonsalves  
Loyola Marymount University  
Los Angeles, CA 90045  
Philosophy  
Advanced  
Undergrad, sci/nonsci
587. Biomedical Ethics \*  
Prof. Stalnaker  
Division of University Studies  
North Carolina State University  
Raleigh, NC 27607  
University Studies  
Introductory  
Undergrad, sci/nonsci
588. Biomedical Ethics (P) \*  
Rolf Ahlers  
Russell Sage College  
Troy, NY 12180  
Philosophy  
Introductory  
Undergrad, sci/nonsci, med  
nursing students
589. Biomedical Ethics \*  
Paul R. Gastonguay, Biology  
Stonehill College  
North Easton, MA 02356  
Biology  
Introductory  
Undergrad, sci.nonsci
590. Biomedical Ethics \*  
Donald E. Tarter  
University of Arkansas at Little Rock  
Little Rock, AR 72204  
Philosophy  
Advanced  
Undergrad
591. Biomedical Ethics \*  
Steven R. Levy, Philosophy  
University of California  
Riverside, CA 92502  
Philosophy  
Introductory  
Undergrad, sci/nonsci, pre-med
592. Biomedical Ethics \*  
Robert W. Blaney, Religious Studies  
University of the Pacific  
Stockton, CA 95211  
ARS 145/245  
Advanced  
Undergrad/grad, sci/nonsci.  
pharmacy, pre-dental, music,  
engineering students
593. Biomedica Ethics \*  
Richard Warner, Philosophy  
University of Pennsylvania  
Philadelphia, PA 19104  
Philosophy  
Introductory  
Undergrad, sci

\*The description of this course appears on page 128 between course numbers 544 and 545.

594. Biomedical Ethics \*  
William A. Parent, Philosophy  
Carol J. White, Philosophy  
University of Santa Clara  
Santa Clara, CA 95053  
Philosophy  
Introductory  
Undergrad
595. Biomedical Ethics \*  
John J. Buckley, Jr.  
University of South Alabama  
Mobile, AL 36688  
Philosophy  
Advanced  
Undergrad, sci/nonsci, med,  
nursing students
596. Biomedical Ethics (P)\*  
Jonathon Erlen  
University of Texas Health Science  
Center at Dallas  
Dallas TX 75235  
Biochemistry  
Introductory  
Undergrad/grad
597. Biomedical Ethics (P)\*  
Louis W. Hcdges  
Washington & Lee University  
Lexington, VA 24450  
Interdepartmental  
Introductory  
Undergrad
598. Biomedical Ethics \*  
Gary L. Chamberlain, Religion  
Webster College  
470 E. Lockwood  
Webster Grooves, MO 63119  
Religion  
Introductory/Advanced  
Undergrad
599. Biomedical Ethics \*  
Robert O. Long, Philosophy  
Wittenberg University  
Springfield, OH 45501  
Philosophy  
Introductory  
Sci majors, pre med students
600. Bio-Moral Problems \*  
Joan Lorch and  
Robert Rizzo  
Canisius College  
Buffalo, NY 14208  
Biology/Religious Studies  
Introductory  
Undergrad
501. Bios and Ethos: The Ethics of the Life  
Sciences \*  
Harlan Q. Stevenson, Biology  
Violette Lindbeck, Philosophy  
Southern Connecticut State College  
New Haven, CT 06515  
Biology/Philosophy  
Introductory  
Undergrad, sci/nonsci
602. Biotechnology of Health \*  
Andrew McClary, Natural Science  
Michigan State University  
East Lansing, MI 48824  
Natural Science  
Upperclassmen  
Undergrad, nonsci

\*The description of this course appears on page 128 between course numbers 544 and 545.

603. Contemporary Medical Ethics \*  
Joseph J. Romano, Philosophy  
Cabrini College  
Radnor, PA 19087  
Philosophy  
Introductory  
Undergrad, sci/nonsci
604. Contemporary Science and Human Values \*  
William J. Mohan, Philosophy  
Marywood College  
Scranton, PA 18509  
Philosophy  
Introductory  
Undergrad
605. Developments in Biomedicine \*  
J. Philip Fawley  
Kenneth Vaux, Religion  
Westminster College  
New Wilmington, PA 16142  
Biology  
Undergrad, sci
606. Ethical and Moral Problems of Biomedicine (P)\*  
P. Durbin, Philosophy  
D.H. Brock, English  
A. Clark, Health & Life Science  
University of Delaware  
Newark, DE 19711  
Health and Life Sciences/  
Philosophy  
Introductory  
Undergrad, sci/nonsci, pre-med,  
nursing, professional
607. Ethical Dimensions of the New Medical Revolution  
William W. May  
University of Southern California  
Los Angeles, CA 90274  
Religion  
Introductory  
Undergrad
608. Ethical Dimensions of Science and Medicine \*  
Jerry Dozoretz, Philosophy  
University of Denver  
Denver, CO 80208  
Philosophy  
Intermediate  
Undergrad, sci/nonsci, law,  
med student
- 608A. Ethical Issues in Biology and Medicine \*  
Daniel S. May, Biology  
Mercer University  
Atlanta, GA 30341  
Biology  
Advanced  
Undergrad sci/nonsci majors
609. Ethical Issues in Biology and Medicine \*  
Religious Studies  
Oklahoma State University  
Stillwater, OK 74074  
Philosophy/Religion  
Advanced  
Undergrad sci/nonsci
610. Ethical Issues in Biomedical Research and Health Care Delivery \*  
Robert Martinez, Biology  
Benjamin Page, Philosophy  
Quinnipiac College  
Hamden, CT 06518  
Biology/Philosophy  
Intermediate  
Undergrad sci/nonsci
611. Ethical Issues in the Life Sciences \*  
Alyce Vrolyk, Philosophy  
California State University  
Northridge, CA 91330  
Humanities  
Introductory  
Undergrad sci/nonsci

\*The description of this course appears on page 128 between course numbers 544 and 545.

612. Ethical Issues in the Life Sciences \*  
Doris C. Volkert, Biology  
Monmouth College  
West Long Branch, NJ 07764  
Biology  
Introductory  
Undergrad, nonsci
613. Ethical Issues Raised by Biomedical Technology (P)\*  
Daniel Wikler, Philosophy  
Norman Fost, M.D.  
University of Wisconsin  
Madison, WI 53706  
Philosophy/History  
Introductory  
Undergrad
614. Ethical Problems in Health Care \*  
John Troyer, Philosophy  
Len Krimerman, Philosophy  
University of Connecticut  
Storrs, CT 06268  
Philosophy  
Introductory  
Undergrad
615. Ethics and Biomedical Technology \*  
J. La Barge  
H. Magalhaes  
Bucknell University  
Lewisburg, PA 17837  
University course  
Introductory  
Undergrad
616. Ethics and Biomedicine (P)\*  
Carol Tauer, and  
Tom Beauchamp, Philosophy  
Georgetown University  
Washington, D.C. 20057  
Introductory  
Grad/undergrad, sci, nonsci,  
nursing, premed majors
617. Ethics and the Health Sciences \*  
Lillian U. Pancheri, Philosophy  
Auburn University  
Auburn, AL 36830  
Philosophy  
Intermediate  
Undergrad, sci, law, pre-med,  
pre-dent, pharmacy, nursing
618. Ethics and the Health Sciences \*  
Phil Staff and  
William C. Fish  
Oakland University  
Rochester, MI 48063  
Philosophy  
Undergrad, largely prenursing
619. Ethics and the Health Sciences \*  
Christopher Holliday, Philosophy  
Oakland University  
Rochester, MI 48063  
Philosophy  
Intermediate  
Undergrad, nursing
620. Ethics and the Life Sciences \*  
David W. Twole, Biology  
University of Richmond  
Richmond, VA 23173  
Colloquium  
Introductory  
Undergrad, sci/nonsci

\*The description of this course appears on page 128 between course numbers 544 and 545.

621. Ethics and Medicine \*  
Robert Esbjornson  
Gustavus Adolphus College  
St. Peter, MN 56082  
Religion  
Advanced  
Undergrad
622. Ethics and Personal Crises \*  
William C. Fish  
Oakland University  
Rochester, MI 48063  
Human Resources Development  
Introductory  
Undergrad, nonsci
623. Ethics for Nurses \*  
Victor B. Bre-ik, Philosophy  
University of St. Thomas  
Houston, TX 77006  
Philosophy  
Introductory  
Undergrad, nurses, and pre-med  
majors
624. Ethics in Psychiatry and Medicine \*  
Carl Luty, Religion and Philosophy  
Hood College  
Frederick, MD 21701  
Philosophy  
Introductory  
Undergrad
625. Ethics of Health Care \*  
John Holden, et al  
University of Illinois at Chicago  
Circle  
Chicago, IL 60680  
Contemporary Courses  
Introductory  
Undergrad
626. Ethics of Living and Dying \*  
Jacques P. Thiroux, Philosophy  
Bakersfield College  
Bakersfield, CA 93305  
Philosophy  
Introductory  
Undergrad, nursing, health  
care fields
627. Health and Biomedical Ethics \*  
Frank Williams, Philosophy  
Eastern Kentucky University  
Richmond, KY 40475  
Philosophy  
Advanced  
Undergrad, nursing
628. Human Biology and Bioethics \*  
Patricia A. Sullivan  
Wells College  
Aurora, NY 13025  
Biology  
Introductory  
Undergrad, nonsci majors
629. Independent Studies in Biomedical Ethics (P)\*  
Jonathon Erlen  
University of Texas Health Science Center  
at Dallas  
Dallas, TX 75235  
Biochemistry  
Advanced  
Grad/undergrad, med.
630. Introductory Ethics \*  
Albert Nephew, Philosophy  
College of St. Scholastica  
Duluth, MN 55811  
Philosophy  
Introductory  
Undergrad

\*The description of this course appears on page 128 between course numbers 544 and 545.

631. Life and Death and Medicine \*  
Arlan Edgar, Biology  
Alma College  
Alma, MI 48801  
Biology  
Advanced  
Undergrad, sci
632. Life, Death and Human Experimentation (P)\*  
Philip E. Devine, and  
Robert M. Anderson  
Department of Philosophy  
Rensselaer Polytechnic Institute  
Troy, NY 12181  
Philosophy  
Introductory  
Undergrad, sci/nonsci majors
633. Man, Medicine, and Morals \*  
Allen Verhey, Religion  
Hope College  
Holland, MI 49423  
Interdisciplinary Studies  
Introductory  
Undergrad, sci.nonsci
634. Man Versus Science \*  
Michael A. Kolitsky, Biological Science  
California Lutheran College  
Thousand Oaks, CA 91360  
Biological Science  
Introductory  
Undergrad
635. Medical Ethics \*  
Michael Dentry, Philosophy  
Aquinas College  
Grand Rapids, MI 49506  
Philosophy  
Introductory  
Undergrad, sci, philosophy  
majors
636. Medical Ethics \*  
Michael Morden, Philosophy  
Beloit College  
Beloit, WI 53511  
Interdepartmental  
Introductory  
Undergrad, sci/nonsci
637. Medical Ethics \*  
Richard Brook  
Bloomsburg State College  
Bloomsburg, PA 17815  
Philosophy  
Introductory  
Undergrad
638. Medical Ethics \*  
Sharon Hill and  
Donald Burrill  
California State University  
Los Angeles, CA 90032  
Philosophy  
Introductory/advanced  
Undergrad/grad, sci/nonsci  
majors
639. Medical Ethics \*  
Janet I. Pisaneschi, Humanities  
Christian Brothers College  
Memphis, TN 38104  
Philosophy/Humanities  
Advanced  
Undergrad, sci/nonsci
640. Medical Ethics \*  
S. Mary Anthony Wagner  
College of St. Benedict  
St. Joseph, MN 56374  
and  
St. John's University  
Collegeville, MN 56321  
Theology  
Advanced  
Undergrad

\*The description of this course appears on page 128 between course numbers 544 and 545.

641. Medical Ethics \*  
Rev. Joseph C. Frisch  
College of St. Teresa  
Winona, MN 55987  
Philosophy  
Introductory  
Undergrad
642. Medical Ethics \*  
Robert Sitelman  
Kean College of New Jersey  
Union, NJ 07083  
Philosophy  
Introductory  
Undergrad, new course for  
continuing education
643. Medical Ethics \*  
P. Muntzel and J. Doyle  
King's College  
Wilkes-Barre, PA 18702  
Theology  
Introductory  
Undergrad, sci/nonsci
644. Medical Ethics \*  
Kenneth Kipnis, Philosophy  
Lake Forest College  
Lake Forest, IL 60045  
Philosophy  
Introductory  
Undergrad
645. Medical Ethics--Seminar \*  
E. James Kennedy, Biology  
Noreen Kessel, Nursing  
North Park College  
Chicago, IL 60625  
Biology  
Advanced  
Undergrad, nonsci majors,  
med, adult education students
646. Medical Ethics \*  
College of Arts and Sciences  
Northwestern University  
Evanston, IL 60201  
Philosophy  
Introductory  
Undergrad
647. Medical Ethics \*  
Rev. John P. Kenny  
Providence College  
Providence, RI 02918  
Philosophy  
Advanced  
Undergrad
648. Medical Ethics \*  
Katherine Stabile, Social Science  
Queensborough Community College  
Bayside, NY 11364  
Social Science  
Introductory  
Undergrad, nursing, med  
technology students
649. Medical Ethics \*  
T.S. Derr, Religion  
Smith College  
Northampton, MA 01060  
Religion  
Advanced  
Undergrad, sci/nonsci, pre med
650. Medical Ethics \*  
Linda Trompetter, Philosophy  
Southeast Missouri State University  
Cape Girardeau, MO 63701  
Philosophy  
Introductory  
Undergrad, nursing

\*The description of this course appears on page 128 between course numbers 544 and 545.

651. Medical Ethics \*  
Anthony Preus  
State University of New York  
Binghamton, NY 13901  
Philosophy  
Introductory  
Undergrad, nonsci/sci, law,  
med
652. Medical Ethics (P)\*  
Marvin Kohl, Philosophy  
SUNY College at Fredonia  
Fredonia, NY 14063  
Philosophy  
Advanced  
Undergrad, sci/nonsci, med
653. Medical Ethics \*  
Edwin Falteisek  
Trinity College  
Burlington, VT 05401  
Religious Studies  
Advanced  
Undergrad, sci
654. Medical Ethics \*  
J. Brooke Hamilton, and  
Jonnie Washington  
Tuskegee Institute  
Tuskegee Institute, AL 36088  
Philosophy  
Introductory  
Undergrad, sci/nonsci, pre-  
veterinary students, med  
personnel at local VA hospital
655. Medical Ethics \*  
John A. Moore  
University of California  
Riverside, CA 92502  
Biology  
Advanced  
Undergrad, sci
656. Medical Ethics \*  
Lawrence P. Ulrich  
Department of Philosophy  
University of Dayton  
Dayton, OH 45464  
Philosophy  
Introductory  
Grad/undergrad, sci/nonsci,  
med, pre dental students
657. Medical Ethics (P)\*  
Paul Durbin, Philosophy/Health Science  
University of Delaware  
Newark, DE 19711  
Philosophy/Health Science  
Advanced  
Undergrad/grad, sci/nonsci,  
premed, nursing majors
658. Medical Ethics \*  
Gerald Dworkin, Philosophy  
University of Illinois  
Chicago, IL 60680  
Philosophy  
Introductory  
Grad/undergrad
659. Medical Ethics \*  
Donald Marquis, Philosophy  
University of Kansas  
Lawrence, KS 66045  
Philosophy  
Introductory  
Undergrad, sci
660. Medical Ethics \*  
Thompson M. Faller, Philosophy  
University of Portland  
Portland, OR 97203  
Philosophy  
Advanced  
Undergrad, med, nursing majors

\*The description of this course appears on page 128 between course numbers 544 and 545.

661. Medical Ethics (P) \*  
Robert Redmon, Philosophy and Religious  
Studies  
Virginia Commonwealth University  
Richmond, VA 23284  
Philosophy  
Introductory  
Grad/undergrad, pre-health  
sci majors
662. Medical Ethics \*  
Russell Jacobs, Philosophy  
Washburn University  
Topeka, KS 66621  
Philosophy  
Introductory/advanced  
Undergrad sci/nonsci, nursing  
majors
663. Medical Ethics \*  
Donald J. Horsh, Health Care Administration  
Washington University School of Medicine  
660 South Euclid  
St. Louis, MO 63110  
Health Care Administration  
Advanced  
Grad
664. Medical Ethics \*  
John McDonald  
Weber State College  
Ogden, UT 84408  
College faculty  
Undergrad, med students,  
nonsci majors
665. Medical Ethics \*  
Mr. Flanagan, Philosophy  
Wellesley College  
Wellesley, MA 02181  
Philosophy  
Intermediate  
Undergrad, sci/nonsci
666. Medical Ethics \*  
Rosalind Ekman Ladd, Philosophy  
Wheaton College  
Norton, MA 02766  
Philosophy  
Introductory  
Undergrad
667. Medical Ethics \*  
Gerald H. Paske, Philosophy  
Wichita State University  
Wichita, KS 67208  
Philosophy  
Introductory  
Undergrad, pre-med, nursing,  
med technology majors
668. Medical Ethics \*  
G.K. Wuori, Philosophy  
Wilkes College  
Wilkes Barre, PA 18703  
Philosophy  
Advanced  
Undergrad, sci/nonsci, med
669. Medical Ethics Seminar \*  
Rev. Paul V. Redmond, Philosophy  
Mount Saint Mary's College  
Emmitsburg, MD 21727  
Philosophy  
Advanced  
Undergrad, sci/nonsci
670. Medical-Moral Problems \*  
Sr. Miriam Therese Larkin  
Mount Saint Mary's College  
Los Angeles, Ca 90049  
Philosophy  
Advanced  
Undergrad, sci/nonsci majors
671. Medicine and Ethics \*  
K. Danner Clouser and Arthur Zucker, Medicine  
Milton S. Hershey Medical Center  
Pennsylvania State University  
Hershey, PA 17033  
Humanities  
Medical School  
Med students

672. Medicine, Ethics, and Society \*  
 Prof. Hodson and Prof. Soble  
 Department of Philosophy  
 University of Texas  
 Austin, TX 78712  
 Philosophy  
 Advanced  
 Undergrad, pre-med
673. Moral Problems in Medical Care \*  
 Kirk Monfort, Philosophy  
 California State University  
 Chico, CA 95926  
 Philosophy  
 Introductory  
 Undergrad
674. Moral Problems in Medicine (P) \*  
 Prof. Iseminger, Philosophy  
 Prof. Shoger, Biology  
 Prof. Sullivan, Sociology  
 Carleton College  
 Northfield, MN  
 Program in Science, Ethics and  
 Public Policy  
 Intermediate  
 Undergrad
675. Moral Problems in Medicine \*  
 Goucher College  
 Towson, MD 21204  
 Philosophy  
 Intermediate  
 Undergrad
676. Moral Problems in Medicine \*  
 Lawrence C. Becker, Philosophy  
 Hollins College  
 Hollins College, VA 24020  
 Philosophy/Religion  
 Undergrad, sci/nonsci
677. Moral Problems in Medicine \*  
 Richard Sherlock  
 Northeastern University  
 Boston, MA 02115  
 Philosophy and Religion  
 Introductory  
 Undergrad
678. Moral Problems in Medicine \*  
 Robert Trevas  
 Department of Philosophy  
 Ohio University  
 Athens, OH 45701  
 Philosophy  
 Introductory  
 Undergrad
679. Moral Problems in Medicine \*  
 Robert L. Schwager, Philosophy  
 State University of New York  
 Cortland, NY 13045  
 Philosophy/Health  
 Graduate level  
 Grad
680. Morals and Medicine \*  
 David W. Benfield, Philosophy and Religion  
 Montclair State College  
 Upper Montclair, NJ 07043  
 Philosophy and religion  
 Introductory  
 Undergrad
- 680A. Morals and Medicine \*  
 Mark Chkola, Philosophy  
 Moorhead State University  
 Moorhead, MN 56560  
 Philosophy  
 Introductory  
 Undergrad

\*The description of this course appears on page 128 between course numbers 544 and 545.

681. Patients, Heredity, and Society: Whose Rights, Whose Responsibilities? \*  
Arthur Gee, Biology  
Paul Menzel, Philosophy  
Carolyn Schultz, Nursing  
Pacific Lutheran University  
Tacoma, WA 98446
682. Philosophical Issues in Health Care \*  
Theodore Scharle, Philosophy  
Bradley University  
Peoria, IL 61625
683. Philosophical Issues in Medical Ethics \*  
M.P. Golding and G. Roberts  
Department of Philosophy  
Duke University  
Durham, NC 27706
684. Philosophical Issues in Medical Ethics \*  
A. Donald VanDeVeer, Philosophy  
North Carolina State University  
Raleigh, NC 27607
685. Philosophical Problems in Medicine \*  
William E. Mann and Richard Hinam  
Department of Philosophy  
University of Vermont  
Burlington, VT 05401
686. Philosophical Problems in Medicine and Health Care \*  
Eunice Belgam, Philosophy  
College of William and Mary  
Williamsburg, VA 23185
687. Philosophy of Medicine \*  
Garrett Atkinson, Philosophy  
William Woods College  
Fulton, MO 65251
688. Problems in Biomedical Ethics \*  
E. Clinton Gardner, Theology  
Emory University  
Atlanta, GA 30322
689. Problems in Medical and Biomedical Ethics \*  
J. Wesley Robb, Religion  
Theodore Kurze, Medicine  
University of Southern California  
Los Angeles, CA 90007
690. Problems in Medical Ethics \*  
Department of Philosophy  
Iona College  
New Rochelle, NY 10801

Biology/Nursing/Philosophy  
Introductory  
Undergrad, nursing, premed

Philosophy  
Advanced  
Undergrad, pre-med, nursing  
students

Philosophy  
Advanced  
Undergrad, sci/nonsci

Philosophy  
Introductory  
Undergrad

Philosophy  
Undergrad

Philosophy  
Intermediate  
Liberal arts and pre-med

Philosophy  
Introductory  
Undergrad, sci

Religion (RS)  
Introductory  
Theology students and some  
others

Religion  
Senior, pre-meds  
Undergrad

Philosophy  
Advanced  
Undergrad

\*The description of this course appears on page 128 between course numbers 544 and 545.

691. Problems in Medical Ethics \*  
Paul Menzel, Philosophy  
Pacific Lutheran University  
Tacoma, WA 98447  
Philosophy  
Intermediate  
Undergrad, nursing, premed
692. Readings in Philosophy: Medical Ethics \*  
Theodore Scharle, Philosophy  
Bradley University  
Peoria, IL 61625  
Philosophy  
Grad/undergrad
693. Religious and Philosophical Issues in Medical Ethics (P)\*  
Charles H. Reynolds, Religious Studies;  
Glenn C. Graber and Rem B. Edwards,  
Philosophy  
University of Tennessee  
Knoxville, TN 37916  
Religious Studies/Philosophy  
Introductory  
Undergrad, sci/nonsci, nursing  
pre-med, pre-dental, other  
health professionals
694. Seminar Coordinating \*  
S. Cecilia Agnes Mulrennan  
Regis College  
Weston, MA 02193  
Biology  
Advanced  
Grad
695. Seminar in Bioethics \*  
William W. May and  
J. Wesley Robb  
University of Southern California  
Los Angeles, CA 90274  
Religion  
Advanced  
Grad
696. Seminar on Bioethics \*  
Dorothy Burnham, Science  
Empire State College  
New York, NY 10010  
Introductory  
Undergrad, sci/nonsci
697. Senior Integrative Seminar: Bioethics \*  
Dean Kenyon, Biology  
Rev. Lorenz Schultz (campus pastor)  
San Francisco State University  
San Francisco, CA 94132  
Biology  
Advanced  
Undergrad/grad, sci/nonsci
698. Social and Ethical Values in Medicine \*  
Richard T. Hull, and  
Peter H. Hare  
State University of New York at Buffalo  
Amherst, NY 14260  
Philosophy  
Introductory  
Undergrad
699. Social Implications of Modern Biology and Medicine \*  
Sherry L. Volk, Biology  
Dominican College  
San Rafael, CA 94901  
Biology  
Introductory  
Undergrad, sci/nonsci, med  
students
700. Society, Biology and Ethics \*  
Robert Baker, Philosophy  
Union College  
Schenectady, NY 12308  
Comp. Ed.  
Advanced  
Undergrad

\*The description of this course appears on page 128 between course numbers 544 and 545.

701. Special Studies: Morality and Patient Care \*  
Instructors from Religious Studies and  
Nursing Departments  
Mount Marty College  
Yankton, SD 57078  
Religious Studies/Philosophy  
Advanced  
Undergrad, health sci majors
702. Special Topics: Bioethics \*  
Walter W. Kanzler, Biofogy  
Wagner College  
Staten Island, NY 10301  
Biology  
Introductory  
Undergrad, sci/nonsci
703. Studies in Medical Ethics \*  
Daniel E. Lee, Religion  
Augustana College  
Rock Island, IL 61201  
Religion  
Advanced  
Undergrad,sci
704. Theoretical Issues in Medical Ethics I (P) \*  
Glenn C. Graber, Philosophy  
Charles H. Reynolds, Religious Studies  
University of Tennessee  
Knoxville, TN 27916  
Philosophy/Religious Studies  
Advanced  
Grad/undergrad
705. Theoretical Issues in Medical Ethics II (P) \*  
L.B. Cebik, Philosophy  
University of Tennessee  
Knoxville, TN 37916  
Philosophy/Religious Studies  
Advanced  
Grad/undergrad
706. Topics in Medical Ethics (P) \*  
Charles H. Reynolds, Religious Studies  
L.B. Cebik, Philosophy  
Glenn C. Graber, Philosophy  
University of Tennessee  
Knoxville, TN 37916  
Philosophy  
Advanced  
Grad
707. Tutorial and Reading in Medical Ethics \*  
Larry Churchill, Family Medicine  
School of Medicine  
University of North Carolina  
Chapel Hill, NC 27514  
Community Medicine  
Advanced  
Grad, law and med
708. Who Shall Live? Who Shall Die? \*  
William Hasker, Philosophy  
Huntington College  
Huntington, IN 46750  
Philosophy  
Introductory  
Undergrad

Bioethics in Research

709. Behavior Control  
Paul W. Holmes, Psychology  
College of Charleston  
Charleston, SC 29401  
Psychology  
Advanced  
Undergrad

A study of the application of the principles of operant and respondent conditioning to the control of human behavior, both normal and disordered, including a consideration of the moral and social implications of the behavior control technologies.

\*The description of this course appears on page 128 between course numbers 544 and 545.



715. Ethics and Policies of Behavioral Research  
E.L. Pattullo  
Harvard University  
Cambridge, MA 02138  
P and SR  
Advanced  
Undergrad/grad  
Read and discuss current literature on ethical problems of research involving humans.
716. Ethics of Modifying Man  
Craig W. Ellison, Psychology  
Stewart Ensign, Biology  
George Blankenbaker, Theology  
Westmont College  
Santa Barbara, CA 93108  
Introductory  
Undergrad  
Advances in bio-psychology related to the ability to modify human beings. Ethical and value implications of these technologies as assessed from an evangelical Christian theological framework. Cloning, gene transfer, drugs, ESB, psychosurgery, mass media, and conditioning technologies.
717. Experimental Social Psychology  
Jerome Tognoli, Psychology  
C.W. Post College  
Greenvale, NY 11548  
Psychology  
Advanced  
Undergrad, sci  
Students develop and carry out their own research based upon an ethical consideration utilizing a principle of "informed consent." Prior research in the field is constantly evaluated in terms of this principle and its applied value.
718. Experimentation, Ethics, and the Law  
A. Plamondon  
Loyola University  
New Orleans, LA 70118  
Philosophy  
Advanced  
Undergrad  
An investigation of experimentation in science dealing with human subjects. The experimentation is considered in three modes: 1) description of the research, 2) ethical issues raised by the research and/or its application, 3) legislative policy and judicial decisions relevant to the research.
719. Genetic Engineering and Future of the Human Species  
Sr. Shaffer, Chemistry  
University of San Diego  
San Diego, CA 92110  
Science  
Introductory  
Undergrad, sci/nonsci majors  
Geared to cover molecular genetics, protein biosynthesis and their relationship. Genetic mutations and consequences in genetic disease, genetic counseling and engineering and the ethical and theological and political problems projected for future solution.
720. Genetic Explosion and its Moral Implications  
Rev. Julian Davies, Philosophy  
Siena College  
Loudonville, NY 12211  
Philosophy  
Advanced  
Undergrad  
An interdisciplinary course which presents the present state of genetic knowledge and moral issues raised by present and future eugenic proposals, and source and meaning of ethics which ought to govern all human solutions.

721. Genetic Manipulation of Man (P)  
Joseph B. Harris, Biology,  
John Zawadsky, Philosophy, and  
Robert Cassidy, Religious Studies  
University of Wisconsin  
Stevens Point, WI 54481
- Biology/Philosophy/Religious  
Studies/Humanities  
Advanced  
Undergrad/grad, sci/nonsci
- Scientific advances in genetics and the ethical, social, legal and medical implications of these.
722. Genetics and Human Affairs  
William H. Stone, Genetics  
University of Wisconsin  
Madison, WI 53706
- Genetics/Zoology/Botany  
Introductory  
Undergrad, nonsci
- The current advances in genetics and life science and their social, ethical, and economic implications for human welfare. The objective of the course is to provide sufficient knowledge for intelligent and critical evaluation of issues arising out of recent discoveries in genetics and their technologic applications.
723. Genetics and Society  
Karen F. Kato, Biology  
Bard College  
Annandale-on-Hudson, NY 12504
- Natural Science  
Introductory  
Undergrad
- Ethical issues generated by increasing capability for manipulating genes in cells and populations. Nonmajors course which will attempt to establish basic understanding of classical and molecular genetics in context of social problems and issues.
724. Heredity and Society  
Richard A. Spieler, Biology  
California State University  
Fresno, CA 93740
- Biology  
Advanced  
Undergrad
- Principles of genetics and evolution as they apply to human society, thought, experience and affairs. Ethical, social, political and medical problems in relation to genetic engineering and other techniques.
725. Human Genetics: Science and Society  
William H. Hexter,  
Amherst College  
Amherst, MA 01002
- Biology  
Undergrad, nonsci
- Objectives are 1) to introduce to the facts and techniques of the genetics of man including cytogenetics, inborn errors of metabolism, population genetics, mutation, and selection; 2) to use this information as the basis of a discussion of science and society including the ethics of genetic engineering the responsibility of a scientist for his discoveries, and the relationship of science and scientists to social problems. Some topics covered: public policy, genetic engineering and abortion.
726. Molecules, Cells and Man  
Larry W. Cohen, Zoology  
Pomona College  
Claremont, CA 91711
- Zoology  
Introductory  
Undergrad, nonsci
- This course attempts to expose the non-science major to the most current concepts in molecular biology and the ethical questions raised by such experimentation. We also consider aspects of human biology in fair amount of detail.

727. Moral Dilemmas in Biomedicine  
 Philip W. Ott, Philosophy  
 Karen J. Ott, Biology  
 University of Evansville  
 Evansville, IN 47702
- Interdepartmental  
 Introductory  
 Undergrad, sci/nonsci, pre-med,  
 nurse, med technology, pre-  
 theology, psychology students

Advances in biomedical research demonstrate our technological capabilities for shaping a new man, a new world. Such possibilities raise difficult questions which call for cross-discipline consideration. This course is designed to afford a context for conversations between science and humanities on some of the critical issues posed by biomedical technology.

728. Moral Implications of Modern Genetics  
 Mary C. O'Toole, Chemistry  
 Regina M. Collins, Biology  
 Briar Cliff College  
 Sioux City, IA 52001
- Chemistry/Biology  
 Introductory  
 Undergrad, sci/nonsci, med.

Some topics discussed: Ethics of genetic control, biomedical ethics.

729. Political and Social Implications of Current Approaches to Psychological Treatment  
 Stephen A. Karp, Psychology  
 George Washington University  
 Washington, D.C. 20052
- Psychology  
 Advanced  
 Undergrad/grad

Combines reading and discussion of varying ideas about mental health institutions, treatments and theories with regard to their social, rather than medical-therapeutic, impact on people and groups.

730. Research in Genetics and the Common Good  
 Thomas C. VanOsdall  
 Baldwin-Wallace College  
 Berea, OH 44017
- Biology  
 Undergrad

Examination of social and ethical implications of discovery in biology. Recombinant DNA was used as case study by instructor. Students presented papers on relevant issues, mostly related to genetics. Biology background was provided by lectures and reading.

731. Research Strategies  
 Milton O. Meux, Educational Psychology  
 University of Utah  
 Salt Lake City, UT 84112
- Educational Psychology  
 Advanced  
 Grad

A conceptualization of research strategies in psychology, including 1) a rational approach to the resolution of value conflicts faced by the researcher, especially methodological vs. ethical humane values; and 2) activities for clarifying and evaluating the values presupposed by a research strategy and for modifying such values in the direction of greater axiological adequacy.

732. Science, Man and Society  
 Bruce Stewart, et al  
 Michigan State University  
 East Lansing, MI 48823
- Natural Science  
 Introductory  
 Undergrad

Origin and structure of fundamental theories associated with the cell, sex, reproduction and heredity, built up in that sequence. Social problems and ethical issues raised by the current biological revolution, in the area of control of reproduction, death, genetic engineering, creation of life.

733. Seminar Bioethics Biology  
Advanced  
Undergrad  
Philip E. Ode  
Theil College  
Greenville, PA 12125
- Ethical implications of the conduct of biological science and its findings.
734. Seminar: Christian Ethics and Fetal Research Religious Studies  
Advanced  
Undergrad, sci  
Frank D. Maguire, Religious Studies  
Salve Regina College  
Newport, RI 02840
- An intensive study of the medical, legal, public policy and Christian ethical dimensions associated with experimentation on the human fetus. Particular emphasis is placed on the American experience.
735. Seminar in Bioethics Biology  
Advanced  
Undergrad, sci  
Carl E. Krekeler, Biology  
Valparaiso University  
Valparaiso, IN 46383
- After an introduction by the instructor pointing out how ethical issues can be approached, students present and discuss papers focusing on the ethical issues which arise in a variety of areas of biological work.
736. Seminar in Medical Ethics: Experimentation Ethical Studies  
Graduate Seminar  
Grad  
E. Clinton Gardner, Religion  
Emory University  
Atlanta, GA 30322
- Analysis of ethical issue in experimentation with human subjects.
737. Special Topics in Bio-Ethics-Biology Seminar Biology  
Advanced  
Undergrad, sci  
Mary Jo Parrish, Biology  
Mary Washington College  
Fredericksburg, VA 22401
- 1 credit course for biology majors. Students give presentation on topic of choice and also give a rebuttal of another presentation. Presents scientific background and ethical problems involved.
738. Technology and Human Values (P) Freshman University Seminar  
Introductory  
Undergrad  
Nancy Sell  
University of Wisconsin  
Green Bay, WI 54302
- Includes recent developments in biology and medicine, e.g. genetic engineering, behavior modifications, etc., exploring ends, values standards of technology. The format provides an excellent way for exploring the ends, values, and standards associated with such technology.
739. Values in Medical Research and Practice Philosophy  
Advanced  
Sci/nonsci, pre-med and  
philosophy majors  
Diana Axelsen, Philosophy  
Spelman College  
Atlanta, GA 30314
- Deals with ethical implications of medical research and practice with emphasis on issues of particular importance to Black community.

## Bioethics for Health Professions

740. Advanced Seminar in Medical Ethics (P)  
Richard Barber, Philosophy  
Virginia Keeney, M.D.  
University of Louisville School of Medicine  
Louisville, KY 40201  
Interdisciplinary  
Advanced  
Med students  
Course is designed for more intensive examination of major ethical theories and their applications to medical practice.
741. Advanced Topics in Medical Ethics (P)  
Rem B. Edwards, Philosophy  
University of Tennessee  
Knoxville, TN 37916  
Philosophy  
Advanced  
Grad  
Intensive study of selected topics in Medical Ethics. Students will provide primary direction for the study, drawing from their clinical experience, their having approached the topics from the perspective of several disciplines, and their own continuing research.
742. Behavior, Law and Ethics (P)  
University of Iowa  
College of Medicine  
Iowa City, IA 52242  
Introductory  
Medical students  
Examines death and dying, the physician variable, the patient variable, informed consent, and medical jurisprudence.
743. Bioethics Workshop (P)  
Albert E. Jonsen  
Michael L. Garland  
Health Policy Program  
University of California  
San Francisco, CA 94143  
Ambulatory and Community  
Medicine  
Introductory  
Medical students, pharmacy and  
nursing students  
Lecture and workshop discussion of several health care situations in the light of their ethical and public policy dimensions: cases used which deal with a variety of current issues, e.g. genetic screening/counseling; care of endangered and defective newborns, confidentiality.
744. Biomedical Ethics  
Kenneth Vaux  
Baylor College of Medicine  
Houston, TX 77030  
Community Medicine  
Introductory  
Medical students  
This is a seminar designed to expand the ethical awareness and understanding of the physician. Guest speakers and case conferences will be used to search out the genesis and dynamics of pertinent clinical situations and the implications for decisions within, in, and beyond the formal patient-physician context. Seminars will deal with areas where law, medicine, and religion interface, including such topics as abortion, organ transplantation, euthanasia, and ethical issues in human investigations.
745. Body/Mind: Medicine and Ethics  
Jane Koenen, Philosophy  
Nazareth College of Rochester  
Rochester, NY 14610  
Philosophy  
Introductory  
Undergrad, sci/nonsci, nurses  
Major contemporary ethical theories with their implications for total human health; social responsibility; legal complexities; ecological involve

746. Chronically Ill Patient (P) Internal Medicine  
Law School  
D.C. Duncombe  
Yale Law School  
New Haven, CT 06520

Joint seminar for medical, law, nursing, public health, and divinity students on the chronically ill and their families. Discussions on the ethical and legal problems that arise in the medical management of patients, with emphasis upon understanding the emotional and psychic dynamics of serious illness. Presentations of selected patients and their families.

747. Clinical Practicum in Medical Ethics (P) Philosophy  
Advanced  
Grad  
David C. Thomasma, Janet I. Pisaneshi, and  
James R. Shaw  
Human Values and Ethics  
University of Tennessee  
Knoxville, TN 37916

Extended observation of health care procedures in a wide range of settings, including surgery, psychiatry, cancer care (adult and pediatric), intensive care (adult, pediatric and perinatal), family practice, internal medicine, pediatrics, social work, outpatient clinics, nurse clinicians and nurse practitioners. (In cooperation with Program on Human Values and Ethics, UT Center for the Health Science, Memphis.)

748. Contemporary Issues in Health Care Delivery Nursing  
Intermediate  
Undergrad  
Nursing  
Mount Marty College  
Yankton, SD 57078

The discussion of issues, trends, and careers related to the nursing profession; how they evolved and are influenced by contemporary society.

749. Death, Dying and Moral Problems in Medicine Obstetrics and Gynecology  
Introductory  
Medical students  
David Mumford, M.D.  
Dean S. Skelly, M.D.  
Baylor College of Medicine  
Houston, TX 77030

Current knowledge and folklore about death and dying will be discussed. In particular, the psychosocial dynamics of death and dying as patient, family, social unit, and attending personnel will be discussed. Ethical problems relating to abortions, human transplantation, death, chronic illness, congenital defects, etc. will be reviewed.

750. Dying, Death and Grief Humanities  
Medical School  
Medical students  
E.A. Vastyan, Humanities  
W.W. Willard, Family Medicine  
Theodore Kantner, Family Medicine  
Milton S. Hershey Medical Center  
Hershey, PA 17033

Aspects of clinical care for dying patients are examined in an intensive seminar exploring literature, medical journals, audiovisual resources and patient assignments.

751. Ethical Aspects in Care of the Dying Patient (P) Interdisciplinary  
Advanced  
Medical students  
Virginia Keeney, M.D., Community Medicine  
University of Louisville School of Medicine  
Louisville, KY 40201

Following preparation by reading, lectures, audio-tapes and discussions, students are assigned to patients in a variety of stages and kinds of terminal illness. There is close support and supervision by faculty and staff. Students share their experiences in weekly sessions.

752. Ethical Issues in Biomedicine (P) Primary Health Care Education  
 Russell McIntyre, Health Care Humanities Introductory  
 New Jersey Medical School Medical students  
 Newark, NJ 07103
- Systematic analysis of ethical, social and legal issues which emerge in the practice of medicine, the provision of health care, and the research done on human subjects.
753. Ethical Issues in Health Care Nursing  
 Dr. M. Aroskar Advanced  
 School of Nursing Grad  
 State University of New York  
 Buffalo, NY 14214
- This multidisciplinary course examines and evaluates ethical doctrines, basic ethical and philosophical issues as a framework for 1) understanding contemporary areas of ethical controversy in health care; and 2) to raise the student's level of sensitivity to ethical dilemmas in patient care.
754. Ethical Issues in Patient Care (P) Pharmacy  
 Robert J. Gerraughty, Pharmacy, et al Grad  
 Creighton University  
 Omaha, NE 68178
- Students observe and then participate in patient interviews, learn to listen and relate empathically with patients as whole persons (with physical, psychological, religious dimensions), identify and begin to resolve ethical as well as medical issues in later discussions.
755. Ethics for Health Professionals (P) Humanities  
 William A. Overholt, Health Resources Management Introductory  
 University of Illinois at the Medical Center Undergrad/grad, law, med,  
 Chicago, IL 60680
- Define major ethical systems and relate them to the health professions. Theory and process of ethics applies to critical bioethical issues.
756. Human Development Anatomy  
 Sally Y. Long and Stanley Kaplan Advanced  
 Department of Anatomy Medical students/grad  
 Medical College of Wisconsin  
 Milwaukee, WI 53233
- A medical school course with three major components: 1) Human Embryology, 2) Teratology, and 3) Human Genetics. All three components include ethical and value considerations.
757. Human Values and Health Care Psychiatry  
 Joe Tupin, Psychiatry Introductory  
 University of California Medical students  
 Davis, CA 95616
- Discussion of medical-human dilemmas and various factors, interests in decision-making.

758. Human Values in Medicine (P)  
 Virginia Keeney, M.D.  
 Richard Barber, Philosophy  
 Frederick Austin, M.D.  
 University of Louisville School of Medicine  
 Louisville, KY 40201
- Interdisciplinary  
 Advanced  
 Medical students

This course offers opportunities to discuss medical ethical issues, exploring first the bases of ethical decision-making and then relating to specific, practical situations in care of patients.

759. Human Values in Medicine Seminars  
 John G. Mayne, M.D.  
 Joseph M. Kiely, M.D.  
 Mayo Medical School  
 Rochester, MN 55901
- Medical School  
 Medical students

An optional non-credit course using group discussion format. Clinical cases exemplifying a medical ethical decision choice is presented and discussed by a clinician. Ethical aspects are discussed by a professor of philosophy, theologian, lawyer, or other expert. The clinician explains his decision and its rationale. The decision choice is subject to discussion.

760. Issues in Bioethics (P)  
 J. Daniel Burke et al  
 University of Michigan Medical School  
 Ann Arbor, MI 48109
- University course  
 Advanced  
 Undergrad/grad, sci/nonsci,  
 law, nursing, public health

An introduction to theories of ethical analysis, moral development, and value perception, and the application of these to problems in bioethical issue areas taken through the life cycle--i.e., birth, life, death.

761. Life and Death Issues in Health Care: The Ethical Perspective  
 Francis Kane  
 Salisbury State College  
 Salisbury, MD 21801
- Philosophy  
 Intermediate  
 Undergrad, sci majors,  
 nurses

Ethical aspects of life and death, physician-patient relation, experimentation and consent, eugenics. Emphasis is on establishing an ethical framework to deal with these problems.

762. Medical Attitude, Human Values and Patient Care  
 Dr. James Bryan, Medicine  
 Larry Churchill, Medical Studies  
 University of North Carolina  
 Chapel Hill, NC 27514
- Community Medicine  
 Introductory  
 Grad, med

Exploration of ethical problems in medicine; written texts and student experience are emphasized.

763. Medical Ethics  
 Paul Bassen, Joaquin Zuniga and  
 Elizabeth Wolgast  
 California State University  
 Hayward, CA 94542
- Philosophy  
 Undergrad, nursing majors

For nursing majors. Medical ethics with focus on field-work. Deals with death and treatment of dying, telling the truth, suicide, abortion, euthanasia, patients rights and responsibilities, striking.

764. Medical Ethics Religious Studies  
 Leonard J. Weber, Religious Studies  
 Mercy College of Detroit  
 Detroit, MI 48219  
 Introductory  
 Undergrad, sci, nursing,  
 allied health majors
- The course is designed to familiarize the student with the major questions raised and stands taken regarding the morality of certain medical practices and policies. The course seeks to aid the student in understanding the significance of medical issues in relationship to the needs and values of society.
765. Medical Ethics Division of Allied Health  
 W. Bowlyne Fisher  
 Shelby State Community College  
 Memphis, TN 38104  
 Introductory  
 Undergrad, allied health
- An introductory course designed to acquaint students with ethical dilemmas faced in allied health professions and to gain expertise in making ethical decisions that are consistent with their values.
766. Medical Ethics Department of Medicine  
 Charles B. Moore, M.D. et al  
 Tulane University School of Medicine  
 New Orleans, LA 70112  
 Introductory  
 Medical
- Introductory course to basic processes of ethical decision-making. Subjects chosen by students, who prepare one-hour presentations, followed by one hour of discussion.
767. Medical Ethics (P) Interdepartmental  
 Donald Pachuta, Medicine  
 University of Maryland School of Medicine  
 Baltimore, MD 21201  
 Introductory  
 Medical students
- Course utilizes clinicians as a panel to discuss before the sophomore class problems such as doctor-patient relationship, death and dying.
768. Medical Ethics Elective Introductory  
 Felix E. Wassermann, Microbiology  
 New York Medical School  
 Valhalla, NY 10595  
 Medical
- Elective discussion and lecture course for beginning medical students. Purpose is to aid them in developing a set of values in chosen career and awaken interest in common problems which have moral and ethical dimensions and choices.
769. Medical Jurisprudence (P) Social Perspectives in Medicine  
 Dr. Roy Spece, College of Law  
 University of Arizona  
 Tucson, AZ 85724  
 Introductory  
 Med students
- Six-week elective for senior medical students covering medical-legal/ethical/moral issues of practice of medicine including academic medicine.

770. Moral and Ethical Issues in Nursing  
 Mary Castles, Nursing  
 M. Gottdauk  
 College of Nursing  
 Wayne State University  
 Detroit, MI 48202
- Nursing  
 Advanced  
 Grad
- Exploration of the relationships among the societal mandate to benefit the social collectivity; the assumptions, beliefs and value systems underlying the development and utilization of theories in nursing; and systems of nursing practice.
771. Moral Issues for Pharmacists (P)  
 James J. Quinn, Theology  
 School of Pharmacy  
 Creighton University  
 Omaha, NE 68178
- Pharmacy  
 Introductory  
 Undergrad, pharmacy majors
- These 15 lectures, given to freshmen and senior students, treat today's moral problems peculiar to pharmacists. These lectures are given in block form: 10 for the freshmen and 5 for the seniors.
772. Moral Issues in Medicine (P)  
 James J. Quinn, Theology  
 School of Medicine  
 Creighton University  
 Omaha, NE 68178
- Behavioral Sciences/Preventive  
 Medicine  
 Professional Med students  
 Medical students
- This course, spread over 2 years, treats a number of moral issues peculiar to the physician. The series offers practical means for facing these problems. These lectures are given in 3 different courses at times when the medical student is studying the medical aspects of the issues.
773. Moral Issues in Medicine (P)  
 Greg Pence, Philosophy/Medicine  
 Kirk Avent, Medicine  
 University of Alabama--Birmingham  
 Birmingham, AL 35294
- Introduction to Clinical  
 Medicine  
 Introductory  
 Medical students
- Topics covered: death, dying, aging; euthanasia; medical ethics; genetic engineering; behavior control-psychotherapy and drug therapy; conflicting roles of the modern physician and their moral problems.
774. Orientation and Professional Ethics  
 Barbara L. Pickary  
 Hudson Valley Community College  
 Troy, NY 12180
- Biology-Medical Laboratory  
 Introductory  
 Undergrad, med lab students
- Ethical issues in today's health professions (medical) are discussed and researched i.e., human experimentation, abortion, euthanasia, death and dying, social ethics, confidentiality in medical professions, medical team professional relationships, and legal aspects.
775. Philosophy of Medicine  
 Robert W. Daly, M.D., Psychiatry  
 Upstate Medical Center  
 Syracuse, NY 13210
- Psychiatry  
 Introductory  
 Medical students

Texts for study in a seminar are selected from such areas as the language of medicine, the philosophy of the biomedical sciences, the philosophy of persons and the moral problem of medicine. Through discussions, study, library research, writing, and a relationship with a tutor, the student is afforded an opportunity to integrate and deepen his humanistic knowledge of his activities as a healer.

776. The Physician as a Consultant on Sex (P)  
 Glenn R. Pratt, Allied Health  
 Medical College of Virginia  
 Richmond, VA 23298
- School of Medicine  
 Medical School  
 Medical

Working with various faculty participants we move through a consideration of human sexuality as such to an evaluation of the physician's part in resolving difficulties and leading his or her patients onward to richer more satisfying lives. We make a broad and hopefully fair presentation of the various ethical and moral positions held in our society so as to make clear their meaning for the physician.

777. Primary Care Concepts  
 John Fryer, M.D. Psychiatry  
 Temple University School of Medicine  
 Philadelphia, PA 19140
- Psychiatry  
 Introductory  
 Medical students

This course is primarily oriented towards the presentation of human growth and development as observed in primary care settings. Within this context it discusses many medical-ethical decisions which a physician must face--the malformed child, death, prolongation of life, sanctity of records.

778. Problems in Medical Ethics  
 Arthur White, Philosophy  
 Travel College  
 Greenville, PA 16125
- Introductory  
 Undergrad. i/nonsci, pre-med,  
 allied health

Course goals: analyze ethical decision-making, understand impact of changes in technology on traditional moral patterns, deal with specific ethical problems in medicine. Specific problems covered included medical economics, allocation of scarce resources, death and organ transplants, and abortion/euthanasia.

779. Social and Moral Issues for Dentists (P)  
 James J. Quinn, Theology  
 Creighton University  
 Omaha, NE 68178
- Community Dentistry/Jurisprudence  
 Advanced  
 Grad, med, law, pharmacy, dentistry, et al

These 12 lectures given to the 1st and 4th year students treat today's moral problems peculiar to dentists. These lectures are given weekly in the 2nd semester to the freshmen, in block, in the senior year, also the 2nd semester.

780. Value Analysis of Nursing Problems  
 Barbara Carper, College of Nursing  
 Texas Women's University  
 Denton, TX 76204
- Nursing  
 Grad, nursing students

Study of ethics, morality and value as applied to phenomena in health care; inquiry into the effects of value preferences and commitments on the development of practice and theory in nursing; ethical problems and moral dilemmas which affect health care delivery and nursing practice.

#### Bioethics and Religion

781. Abortion and Euthanasia  
 James Childs, Theology  
 Valparaiso University  
 Valparaiso, IN 46383
- Theology  
 Advanced  
 Undergrad, pre-med, nursing

A study of the issues of abortion and euthanasia from the perspective of Christian Ethics. Also looks at the legal, social, medical and personal dimensions of these issues.

782. Bioethics Sr. Claudine Axman  
Barry Rigney  
Kansas Newman College  
Wichita, KS 67213  
Biology/Theology  
Introductory  
Undergrad, sci/nonsci
- Course is designed to help the student establish an ethic based on biological facts and Christian values; investigate crucial problems from the perspectives of biology and moral theology; and encourage involvement in bioethical issues in life.
783. Christian Ethics Douglas Fox  
S.K. Williams  
The Colorado College  
Colorado Springs, CO 80903  
Religion  
Introductory  
Undergrad
- A discussion of the sources and methods of ethical discussion in a Christian context, focussing upon problems of health care, and medical experimentation.
784. Christian Ethics Jack W. Provonsha, M.D.  
Loma Linda University  
Loma Linda, CA 92354  
Religion  
Introductory  
Mainly medical students
- Primarily a course dealing with bioethical issues from the perspective of Christian belief.
785. Christian Ethics and Current Biomedical Issues Frank D. Maguire, Religious Studies  
Salve Regina College  
Newport, RI 02840  
Religious Studies  
Advanced  
Undergrad sci/nonsci, nursing
- To examine the major current, biomedical issues (abortion, euthanasia, organ transplants, human experimentation, genetic engineering and sterilization and artificial insemination) in the light of Christian ethical principles.
786. Christian Reponse to Medico-Moral Problems Rev. Thomas P. McGourty, Religious Studies  
Niagara University  
Niagara University, NY 14109  
Religious Studies  
Introductory  
Nursing, pre-med, prelaw
- A study of current medical and biological procedures from the viewpoint of Christian ethics. An examination of contemporary moral and legal problems as right to health care, truth and information in medicine, eugenic engineering, artificial insemination, compulsory sterilization, abortion, behavior control, human experimentation, right to die.
787. Death, Dying and Euthanasia in Christian Perspective Frank D. Maguire, Religious Studies  
Salve Regina College  
Newport, RI 02840  
Religious Studies  
Advanced  
Undergrad sci/nonsci, nurses
- An in-depth study of the contemporary American experience of death, dying and euthanasia from a variety of dimensions: medical, legal, psychological, social and ethical. Particular emphasis will be placed on the Christian ethical perspective.

- 787A. Embryology and Ethics  
Jane Oppenheimer, History of Science  
Bryn Mawr College  
Bryn Mawr, PA 19010
- History and Philosophy of  
Science  
Grad seminar  
Grad students
- Examination mainly of classical and medieval theological sources (in English translation) to ascertain (1) early ideas on embryonic ensoulment and (2) laws if any concerning abortion from same sources.
788. Ethical Issues in the Health Sciences  
A.H. Limper, Theology  
Elmhurst College  
Elmhurst, IL 60126
- Theology and Religion  
Advanced  
Undergrad, some nurses
- Theology offers a distribution requirement in which the student comes to grips with Biblical faith in some way. We looked at ethics from a Biblical perspective and then at issues in the Health Sciences today--including the Biblical and other perspectives.
789. Ethics and the Life Sciences  
Rev. Athanasius Cherry, Religious Studies  
St. Vincent College  
Latrobe, PA 15650
- Religious Studies  
Introductory  
Undergrad
- A study of the ethical problems in medicine and biology application of current medical practices, theology and philosophy in making moral decisions about bio-medical areas.
790. Health Care and the Morals Game  
Donald R. Imming, Religion/Philosophy  
Mount Marty College  
Yankton, SD 57078
- Religion and Philosophy  
Undergrad, sci majors
- A study of various issues with ethical importance arising in the health care area, e.g. abortion, euthanasia, and genetic engineering. Each issue is viewed from three different theological viewpoints--those of Joseph Fletcher, Paul Ramsey, and Charles Curran.
791. Honors Seminar--Bioethics  
C.B. Hamann, Biology et al  
Asbury College  
Wilmore, KY 40390
- General Studies  
Advanced  
Undergrad
- Open discussion on relationship of Christian ethics as they relate to the Bioethics, as advocated by Potter in his book Bioethics.
792. Internship/Seminar in Health Professions (P)  
Sara Miles  
Wheaton College  
Wheaton, IL 60187
- Science  
Introductory  
Undergrad, pre-health  
professions
- Sociological, economic, political, and ethical problems facing health professionals, and some Christian responses. Designed for students with a definite interest in one of the health professions, this course provides opportunity to observe the field first-hand for a short time, and to study the scope of health care in the U.S.
793. Medical Ethics  
Paul McClanahan, Religion  
James DeYoung, Speech  
Mornmouth College  
Mornmouth, IL 61462
- Introductory  
Undergrad
- Some issues discussed: the dilemmas of euthanasia, technology and humanity, care of the dying, ethical implications of genetics.

794. Medicine, Human Values and Religion Religion  
Hans O. Tiefel, Religion Introductory  
College of William and Mary Undergrad  
Williamsburg, VA 23185
- The study of moral and religious problems arising in such biomedical issues as abortion, human experimentation, euthanasia, genetic engineering, organ transplants, and behavior control.
795. Moral Issues in Life and Health (P) Theology  
James J. Quinn, Theology Advanced  
Creighton University Undergrad/grad, sci/nonsci  
Omaha, NE 68178
- The New Testament is the source for establishing principles and insights which help solve moral problems involved in the decision-making of a number of current medical cases.
796. Moral Theology: Issues of Life and Death Religious Studies  
Joseph Kroger, Religious Studies Advanced  
St. Michael's College Undergrad  
Winooski, VT 05404
- A consideration of selected topics in the field of contemporary bioethics, this course focuses on four specific problem areas in medical ethics: Human Experimentation, Eugenics and Genetic Engineering, Abortion, and Euthanasia. The religious and moral aspects of these problems are explored with an emphasis upon the Christian moral perspective.
797. Seminar on Bioethics: Religious and Humanistic Ethics (P) Advanced  
Richard A. McCormick, Sid Leiman and Grad  
Leroy Walters  
Georgetown University  
Washington, D.C. 20057
- The course examines the ethical methodologies of four traditions of Western ethics: the Jewish, Catholic, Protestant, and humanistic traditions. It then observes how each tradition approaches a series of specific bioethical problems, e.g. truth-telling, abortion, organ donation, resource allocation, suicide, and euthanasia.
798. Theological Reflection on Health Care (P) Theology  
James E. Hoff, Theology Introductory  
Creighton University Grad/undergrad  
Omaha, NE 68178
- Students become aware of ethical and religious issues in patient care, equip themselves to begin resolving these issues reflectively, and better understand man as a whole person (with bodily, interpersonal, and psycho-social dimensions).
799. Theology and Bioethics (Seminar) Church in Society  
Richard A. Hoehn Grad  
Texas Christian University  
Ft. Worth, TX 76129
- Issues in bioethical policy, such as population growth, genetic manipulation, and life health policy.

## 4. INDUSTRY, COMMERCE, AND SOCIETY

## 4.01. Industry, Business and Society

800. Administrative Ethics (P) Philosophy  
 David Palmer, Philosophy Intro, advanced  
 State University College Undergrad, sci, nonsci, admin-  
 Fredonia, NY 14063 istrative science majors

Ethical problems which typically arise in administrative or managerial contexts in both the private and public sectors. The nature of ethical theories, their implications for decision-making and specific administrative concerns will be examined.

801. Business and Society Management  
 Justin G. Longenecker, Management and Junior Senior  
 Quantitative Analysis Grad/undergrad, nonsci,  
 Hankamer School of Business business majors  
 Baylor University  
 Waco, TX 76706

An examination of business and its interrelationships with the physical, social, and cultural aspects of society. The use of text, readings, and cases to explore business ideology, ethics, operational consequences, and responsibilities within a changing uncertain environment.

802. Business and Society Business and Economics  
 Donald N. Horning, Sociology Advanced  
 Saint Mary's College Undergrad, nonsci  
 Notre Dame, IN 46556

Drawing upon the disciplines of sociology and economics, the Business and Society course focuses upon the interface between the technological changes generated by business and the social impact of those changes. Special attention is given to cross cultural analysis and the response of other societies as they have addressed the issues.

803. Business and Society Industrial Relations  
 Marian S. McNulty Advanced  
 Seton Hall University Grad/undergrad, law  
 South Orange, NJ 07079

Critical evaluation of the role of business in American society, its influences on and responsibility for meeting the challenges of changing social problems. Insights into the role of the executive.

804. Business and Society Management/religion  
 James O'Toole, Business Advanced  
 John Crossley, Religion Undergrad/grad  
 University of Southern California  
 Los Angeles, CA 90007

Basic aim is to examine the concept of responsibility and apply the results to certain major facets of business enterprise such as product quality and safety, advertising, environmental protection, and income distribution. Underlying assumption is that irresponsibility in business is as much a product of lack of thoughtful analysis as of "bad will," and that thoughtful analysis can be taught.

805. Business Ethics  
 Rev. Matthew Morry  
 Department of Philosophy  
 Providence College  
 Providence, RI 02918  
 Philosophy  
 Advanced  
 Undergrad  
 The application of ethical principles to the practical problems of the business world.
806. Business Ethics  
 Russell Jacobs, Philosophy  
 Washburn University  
 Topeka, KS 66621  
 Philosophy  
 Introductory  
 Undergrad, business students  
 The student is introduced to various rational decision-making procedures and to their application to moral problems and problem areas in business and commerce.
807. Business, Technology and Society  
 Ronald Warloski  
 Department of History  
 University of Wisconsin  
 Eau Claire, WI 54701  
 History  
 Introductory  
 Undergrad  
 The impact and interaction of technology and science on modern western society via the media of business organizations.
808. Christian Ethics and American Business  
 Frank D. Maguire, Religious Studies  
 Salve Regina College  
 Newport, RI 02840  
 Religious Studies  
 Introductory  
 Undergrad, sci, nonsci, bus  
 majors  
 The Christian ethical dimensions of the major areas of concern related to the current world of American business.
809. Contemporary Problems of Science and Society  
 Joseph Shapiro, Physics  
 Fordham University  
 Bronx, NY 10458  
 Physics  
 Introductory  
 Grad/undergrad, nonsci  
 Emphasis is on the relationship of technology to the productive process. Discusses effects of division of labor, energy, environmental effects.
810. The Corporation and Society  
 Charles, F. Phillips  
 Lewis Hodges and  
 E. Rimbrough, et al  
 Washington and Lee University  
 Lexington, VA 24450  
 Economics  
 Advanced  
 Undergrad  
 An examination of the influence of the large corporation on our society in themes of economic, ethical, legal, political and sociologic values. Topics will include the impact of bigness, the social responsibility concept and the efficacy of the competitive model for controlling corporate decision-making.

811. Cultural Value Systems and Business Management  
 Peter A. Fraile, Organization of Human  
 Behavior  
 University of Detroit  
 Detroit, MI 48221
- Organization of Human  
 Behavior  
 Advanced  
 Grad. business

The course is designed to provide the students with a theoretical and experimental basis for developing an understanding of the interdependence between cultural value systems and management practices, and to broaden the students' exposure to these critical interrelationships.

812. Ethics and Business  
 James Brummer  
 University of Wisconsin  
 Eau Claire, WI 54701
- Philosophy  
 General studies  
 Undergrad, business majors

An examination of the values and conduct of modern corporations. Attention given to the development of a philosophy of society concerning the relation of economic units to political and social units. Attempt to articulate a theory of value relative to corporate conduct. Specific topics include: Power and Values of Modern Corporations; the Theory and Practice of Countervailing Power; the Investigation and Assessment of the Theories of Corporate Egoism and the Game Ethic; and, the Development of Technology and Its Impact on Corporate Values.

813. Ethics and Human Values of Industry (P)  
 Ione Gautereaux and  
 Evelyn Ferguson  
 Fort Wright College  
 W. 4000 Randolph Road  
 Spokane, WA 99204
- Environmental Biology  
 Advanced  
 Undergrad/grad, sci, nonsci

Emphasis on ethics and moral values of industry in relation to environment, community, people, various industries, such as agribusiness and transportation.

814. Issues in Public Administration  
 Ben Hourani  
 Department of Political Science  
 Eastern Michigan University  
 Ypsilanti, MI 48197
- Political Science  
 Introductory/advanced  
 Grad/undergrad, nonsci

Deals with bureaucracy as a social technology and addresses ethical dilemmas in a complex, interdependent world.

815. Man, Nature, and Industry in America (P)  
 C.L. Sanford, American Studies, Humanities  
 Rensselaer Polytechnic Institute  
 Troy, NY 12181
- Literature and Communication  
 Advanced  
 Grad

Designed to supply the social, philosophical and historical surroundings in which things come to have existence, this course explores certain large themes: American organic philosophy, the rise of industrial consciousness, and values in conflict.

816. Management and Social Responsibility  
 Mariam McNulty, Management and Industrial  
 Responsibility  
 Seton Hall University  
 South Orange, NJ 07079
- Industrial Responsibility  
 Grad, law

An examination of the interrelationships between the business sector and other societal institutions with the view of clarifying to whom and for what the corporation is responsible.

817. Management's Environmental Responsibilities Engineering Management  
 Robert Waters Advanced  
 University of Missouri Undergrad/grad  
 Rolla, MO 65401

A systems approach to the study of management's responsibilities to society arising from operating extraction, manufacturing, and transportation/logistics systems.

818. Philosophy of Administration Public Administration  
 Terry L. Cooper, Ted Thomas and Advanced  
 Wesley Bjur Undergrad/grad  
 Public Administration  
 University of Southern California  
 Los Angeles, CA 90007

Emphasis on ethical issues related to the administrative role, including the value implications of various approaches to organization and management.

819. Organizational Ethics Philosophy  
 Bonnie Tracy, Philosophy Advanced  
 College of Arts and Science Grad/undergrad  
 Eastern Kentucky University  
 Richmond, KY 40475

A discussion and application of ethical principles to different procedures and practices of business organizations, including those in scientific or technical fields. Topics covered will include: the formulation of a general code of conduct for various organizations; loyalties and responsibilities of superiors and subordinates; personal versus organizational objectives; an extensive case analysis procedure.

820. Problems in Contemporary Business Behavior Business Administration  
 A.W. Green Advanced  
 West Chester State College Undergrad  
 West Chester, PA 19380

An independent analysis of ethical problems in business-illegal or immoral orders of superiors; exorbitant pricing; deceptive trade practices; false labeling; misleading advertising; harassment of business critics; Ralph Nader; knowing underpayment of taxes; favoritism to customers; abuse of expense accounts; fidelity to company stockholders.

821. Role of Business in Contemporary American Society Economics  
 Economics Department Advanced  
 Iona College Undergrad  
 New Rochelle, NY 10801

The course is designed to examine critically contemporary political, social and economic issues and philosophies that have a profound and lasting effect on business policies, goals and strategies, forcing business to change their outlook and attitude toward the public and to follow closely attitudes and actions of national leaders, government agencies and civic groups. The issue of "social costs" permeated the entire course.

822. Social and Economic Contexts of Technology (P) Monteith Social Humanistic  
Charles K. Hyde, et al Studies  
Monteith College Introductory  
Wayne State University Engineering Study  
5165 Second Avenue  
Detroit, MI 48202
- An examination of the development and diffusion of new technology within the contexts of a market system and of a bureaucratic-planning system, with a detailed examination of the impact of a single technology (in this case the automobile) on American society and culture.
823. Social Environment of Business Business  
William Strang and Neil Ford Advanced  
University of Wisconsin Grad  
Madison, WI 53706
- Using cases and readings, students explore the interface of business institutions and the social environment.
824. Social Responsibility and the Business World Religion  
Daniel E. Lee, Religion Advanced  
Augustana College Undergrad, nonsci, business  
Rock Island, IL 61201 and accounting majors
- Examination of questions of social responsibility pertaining to the business world and of the relevance of Christian ethical ideals for these questions.
825. Technology and Work (P) Values, Technology and Society  
Nate Rosenberg, Economics Undergrad  
Stanford University  
Stanford, CA 94305
- Seminar on the relationship between changing technologies and the changing nature of work in modern industrial societies; the role of the worker and the altered nature of the work experience as a result of the impact of new production technologies.
826. Values in Contemporary Organizations Administration and Management  
Mary Beth Peters, Administration and Advanced  
Management Undergrad  
Chatham College  
Woodland Road  
Pittsburgh, PA 15232
- The course aids students in identifying value systems, their personal values and those of organizations. They examine different organizations to discover the fit between stated values and the behaviors to external world and to internal environment. They study methods for promoting congruency.
827. Work and Alienation (P) Philosophy  
Bernard Gendron, Philosophy Advanced  
University of Wisconsin Undergrad  
Milwaukee, WI 53201
- History of alienation within the working class; the economic and political correlatives. Prospects for the future; postindustrial technology, worker control, expanding leisure, automation. The impact of these on conditions of work and the extent of alienation.

4.02 Computers/Microelectronics

828. Computers and Modern Society Computer Science  
 Computer Science  
 University of Southwestern Louisiana  
 Lafayette, LA 70501  
 Undergrad  
 The impact of computers on society.
829. Computers and Modern Society Computer Science  
 David A. Nuesse  
 University of Wisconsin  
 Park and Garfield  
 Eau Claire, WI 54701  
 Undergrad/sci, nonsci  
 Study of computers and their impact through examination of typical applications, with concern for the power, use and misuse of computers, morals, and ethics of systems and control.
830. Computers and Society Computer Science  
 Jerry Dillion  
 James Kho  
 Art Critchlow  
 California State University  
 6000 J Street  
 Sacramento, CA 95819  
 Undergrad/grad, sci/nonsci  
 all majors  
 Impact of computers on society: complications of personal privacy due to the computer, computer regimentation and power. Survey of areas of use of computers.
831. Computers and Society Experimental Humanities  
 C. Terrence Ireland, Statistics  
 Philip Wirtz, Social Research Group  
 George Washington University  
 Washington, D.C. 20006  
 Undergrad, nonsci  
 Introduction to computers, computer program writing, artificial intelligence, applications of computers in society, privacy issues, and historical perspective.
832. Computers and Society Computer Science  
 Victor Helton, Computer Science  
 Herbert Morris, Computer Science  
 Bradley University  
 1501 W. Bradley Avenue  
 Peoria, IL 61625  
 Undergrad, sci, nonsci, majors  
 Course concerned with the past and projected impact of the computer on society. With regard to the future, emphasis is placed on the necessity for consideration of human rights and needs in all computer applications. Instruction involves team teaching and the use of guest lecturers.

833. Computers and Society  
 Theodore A. Norman and Bill R. Hays  
 Computer Science  
 Brigham Young University  
 Provo, Utah 84602  
 Computer Science  
 Advanced  
 Undergrad/grad, sci/nonsci  
 majors  
 Reading, writing and class discussion of the impact of technology on human values and society. The computer is used as a prime example of a technological innovation with great impact.
834. Computers and Society  
 Robert Treadwell, Philosophy  
 Kim Mumme, Chemical Engineering  
 University of Maine  
 Orono, ME 04473  
 Computer Science  
 Introductory  
 Grad/undergrad  
 Consideration of the human and social consequences of the technological development and application of computers as viewed from the standpoints of the computer customer, the computer specialist, and the public.
835. Computers: Appreciation, Applications, Implications (P)  
 William Daugherty, Accounting;  
 Doug Haden, J. Mack Adams,  
 Don Dearholt and Rob Babb  
 Department of Computer Science  
 New Mexico State University  
 University Park, NM 88003  
 Computer Science  
 Introductory  
 Undergrad/grad, sci, nonsci  
 The evolution of computers, their applications, and their past, current, and potential impact on society. Non-technical emphasis, but with an introduction to programming.
836. Computers, Cybernetics and Society  
 Prof. Patz, Electrical Engineering  
 College of Engineering  
 Florida Technological University  
 Orlando, FL 32816  
 Engineering  
 Advanced  
 Undergrad  
 The effects of computers and the cybernetic revolution on the individual and society. Effects of positive and negative feedback on biological, technological and social systems. Computers and their interactions with human system.
837. Human Side of Computing  
 Michael I. Atkins  
 School of Computer Science  
 Rochester Institute of Technology  
 Rochester, NY 14623  
 ICSS  
 Advanced  
 Undergrad, computer science  
 Group discussions and investigations into the various social, ethical and moral implications of the various aspects of computers within society.
838. Legal and Social Aspects of Computing  
 John F. Dalphin  
 State University of New York College  
 Potsdam, NY 13676  
 Computer Science  
 Advanced  
 Undergrad, sci, computer sci  
 majors  
 Seminar course investigating influence of computer revolution on society (and vice versa): Automation, data banks, information explosion and information security, moneyless economy, numeralization and individual depersonalization, privacy. Contemporary and historical topics will be discussed in light of their relationship to computers: Education, energy, health services, aerospace.

839. Man and Computers Computer Science  
Undergrad  
Stephen Weiss, Computer Science  
University of North Carolina  
New West Building, 035-A  
Chapel Hill, NC 27514
- Cultural, social, and economic effect of computers. Value judgments related to computers.  
Use of computers to model humans and human systems.
840. Man and the Computer Age Computer Science  
Introductory  
Undergrad/grad, sci, nonsci  
E.C. Hoffman, Computer Science  
J.B. Reidy and E. Oster  
Los Angeles Pierce College  
6201 Winnetka Avenue  
Woodland Hills, CA 91364
- Presents a perspective of our society as affected by technological change and by computers.  
Discussions include historical development, structure and function, and applications of  
computers. Studies social ramifications of computers as they impact our social institu-  
tions, careers, and quality of life.
841. Perspectives on Computers and Society Computer Science  
Introductory  
Undergrad, sci, nonsci  
Prof. Whitby and Prof. Lambert  
Institute of Technology  
University of Minnesota  
207 Church Street, S.E.  
Minneapolis, MN 55455
- The impact of computers on society. Partnership or confrontation. History of develop-  
ment. Potential for use. Computer utility. Privacy in a computer society. Future of  
computers. The ultimate machine. Computers in business, industry, art, music, the home.
842. Social and Legal Implications of Computers Computer Science  
Advanced  
Grad/undergrad  
Computer Science Department  
University of Southwestern Louisiana  
Lafayette, LA 70501
- Social and legal implications of computers.
843. Social Consequences of Computing Computer Science  
Advanced  
Undergrad, computer sci majors  
Thomas J. Houser, Computer Science  
Millersville State College  
Millersville, PA 17551
- The computer has excited the public imagination and has generated both great fears and  
great hopes. It has become a symbol for all that is evil in modern society.. This course  
gives a succinct picture of the historical development of the computer and examines some  
of the fundamental problems being raised by the irresistible computerization of society.  
It attempts to show future practitioners of the arts and sciences of computing how to  
avoid creating systems which result in adverse social consequences.
844. Social Context of Computing (P) Information and Computer Science  
Advanced  
Grad  
Rob King, Information and Computer Science  
University of California  
Irvine, CA 02717
- Computer Technology as computer use; the political arenas of conflict over computing;  
the social world of computing; computer impact on settings of use.

845. Social Implications of Computers (P)  
 Doug Haden, et al  
 Department of Computer Science  
 New Mexico State University  
 University Park, NM 88003
- Computer Science  
 Advanced  
 Undergrad/grad, sci, nonsci
- Privacy, security of information, work and leisure, professionalism and licensing, legal safeguards, economic implications.
846. Social Implications of Computing  
 Norman Sondak and  
 James Perry  
 Worcester Polytechnic Institute  
 Worcester, MA 01609
- Computer Science  
 Advanced  
 Undergrad/grad
- A review of the social implications of computers and computer based systems designed for the computer scientist. Course studies computer uses in history, language, literature, poetry, music, art and, also, other new applications to the humanities. The course considers not only the influence of computers on the humanities but also the role of the humanities in influencing computer technology and applications.
847. Social Issues and Impacts on Computing (P)  
 Rob Kling  
 Department of Information Computer Science  
 University of California  
 Irvine, CA 92717
- Information and Computer  
 Science  
 Introductory  
 Grad/undergrad
- The social settings of computer use; the impacts of computing on the work and decision-making of users; computing as a source of conflict, institutional influences on computer use. The roles of computer specialists.
848. Social Issues in Computing  
 Richard G. Hetherington  
 Walter Sedelon  
 University of Kansas  
 Lawrence, KS 66045
- Computer Science  
 Introductory  
 Undergrad/grad, sci, nonsci,  
 from all areas
- Course is designed to expose student to a broad spectrum of issues of public concern which arise from use of computers. Discussion is focused on the source of the problems and the possible resolutions. Students research one topic in depth and give presentation.
849. Societal Issues and Electrical Engineering  
 James L. Marstall, Electrical Engineering  
 Villanova University  
 Villanova, PA 19085
- Electrical Engineering  
 Introductory  
 Undergrad
- Historical emergence of electrical engineering from its 19th century roots; major areas of social impact of electrical technology; current issues concerning this impact with especial attention to computers.

4.03. Media/Communications

850. Advertising and the Electronic Media Radio-Television  
 Sandra McMillan, Radio-Television  
 California State University, Long Beach  
 1250 Bellflower Boulevard  
 Long Beach, CA 90840  
 Advanced  
 Undergrad
- Theory, role, regulation and procedures of advertising in the electronic media. Study of legal, ethical, commercial and creative principles which the student demonstrates knowledge of by designing advertising strategy, campaigns and scripts.
851. Communication Media, Intellectual Freedom,  
 and Libraries Library School  
 David K. Berninghausen, Library Science  
 University of Minnesota  
 Minneapolis, MN 55455  
 Advanced  
 Grad
- Scholars, journalists, and librarians, recognizing the necessity for working in the condition called "intellectual freedom," have developed policies and procedures to preserve such freedom. These policies provide the content of the course, and they are studied for their value to man in perceiving his world and interacting with it effectively.
852. Information: The Communications Revolution in  
 Contemporary Society (P) Values, Technology, Society  
 William R. Kincheloe, Electrical Engineering  
 Stanford University  
 Stanford, CA 94305  
 Undergrad level
- The nature of the communications revolution and its impact on technological society, present and future. Fundamental concepts of communications and information theory; education (the future of books, libraries, teaching, etc.), politics, urban problems, human values (privacy, etc.); cable TV; society as an interactive organism; communications and ecology; communications and the nature of consciousness.
853. Law of Broadcasting Radio/Television  
 W. Ray Moffield  
 Department of Journalism and Radio/Television  
 Murray State University  
 Murray, KY 42071  
 Advanced  
 Grad
- Moral, ethical, social and legal control of broadcast technology; forces that mold public for broadcasting and new media such as Cable television.
854. Seminar in Rhetoric and Public Address:  
 Free Speech and Ethics in Community Speech Communication  
 Richard L. Johannesen  
 Northern Illinois University  
 DeKalb, IL 60115  
 Grad school  
 Grad
- Provides information and insights on varied potential perspectives for making ethical judgments about human communication to sensitize participants in communication to the inherency and complexity of ethical issues in communication, and to encourage individual development of personally workable approaches to assessing communication ethics. To survey cases, arguments, and problems concerning dimensions of free speech.

## 5. PUBLIC POLICY MAKING

5.0i. Science/Technology and Public Policy

855. Bioethics and Public Policy: Workshop I (P)  
 James Childress, et al  
 Institute of Society, Ethics, and Life Sciences  
 Hastings-on Hudson, NY 10706  
 Institute of Social, Ethics,  
 and Life Processes  
 Faculty and professional  
 College faculty, med, and  
 law faculty, clergy
- This workshop will survey current issues in medical and biological ethics, with a particular emphasis on the public policy implications. The workshop will examine ethical issues underlying national health policy, federal funding of abortions, informed consent, genetics, and other topics.
856. Ethical Issues in Social Change and Public Policy  
 Thomas E. McCollough, Religion  
 Duke University  
 Durham, NC 27706  
 Religion  
 Advanced  
 Undergrad
- American moral tradition and factors in social change in the normative analysis of public policy, with a consideration of specific ethical issues.
857. Ethics and Public Policy  
 Howard Sohn, Religion  
 Mount Holyoke College  
 South Hadley, MA 01075  
 Religion  
 Introductory  
 Undergrad
- Focus on ethics in the public sphere, moral aspects of international, national, and institutional policy. Concerned with evidence, in policies and formulation, of values with theological or religious roots.
858. Ethics and Social Policy  
 Bernard J. Diggs, and  
 James D. Wallace, Philosophy  
 University of Illinois  
 Urbana, IL 61801  
 Philosophy  
 Introductory  
 Grad/undergrad
- An examination of the moral aspects of social problems, and a survey of ethical principles formulated to validate social policy.
859. Ethics, Politics and the Energy Crisis  
 R.B. James, Religion  
 Andrew Rebeson, Nuclear Energy  
 University of Richmond  
 Richmond, VA 23173  
 Religion  
 Introductory  
 Undergrad
- The ethics of politics with respect to supplying (and deciding about) energy needs of our civilization. Economic possibilities, technological options, social equity and religious underpinnings. Sanctions and constraints under which governmental figures operate or ought to. Focus on situation and legislature in Virginia. Instructor is religion professor and member of legislature.

860. History and Politics of Man, Technology and Environment History  
 Samuel P. Hayes, History Advanced  
 University of Pittsburgh Undergrad  
 Pittsburgh, PA 15260

Focus on conflicts in values, and political alternatives in various political settings-- legislative, administrative, judicial and planning. Special emphasis on scientific and technological alternatives as major political choices, and the transition from conservation in early 20th-century to recent environmental movement.

861. History of the Development of the Atomic Bomb History  
 Thomas L. Hanks, History Introductory  
 University of Washington Undergrad  
 Seattle, WA 98195

History of the atomic bomb from the beginning of nuclear physics to the security hearing of J. Robert Oppenheimer. The course discusses the scientific achievements, the moral misgivings of those involved, and the political decisions that were made.

862. The Idea of Progress (P) Philosophy  
 Bernard Gendron Advanced  
 University of Wisconsin Undergrad  
 Milwaukee, WI 53201

An attempt to come to terms intellectually with the questions of whether the lot of humanity improves with the course of history. The subsidiary methodological objective of the course is to enable students to learn to grapple rationally with social issues which are too global to be settled scientifically but which for policy reasons, must be resolved in some way.

863. Introduction to Environmental Planning Environmental studies  
 Dudley Burton, Environmental Studies Introductory  
 University of California Undergrad  
 Santa Cruz, CA 95060

Introduction to ethical and scientific dimensions of public planning. Consideration to technical impulses in planning and critique based upon political and humanistic ideas.

864. Man and Nature in Public Policy Philosophy  
 R.S. French Advanced  
 George Washington University Grad/Undergrad  
 Washington, D.C. 20052

Examination of relationship of philosophical conceptions of man and nature to national policies of growth and development in selected periods of American history. Pending Federal land use legislation used as case study.

865. Normative Policy Analysis Political Studies  
 Irving J. Spitzberg, Jr. Introductory  
 Joseph Ellicott Complex Grad/undergrad  
 State University of New York  
 Buffalo, NY 14261

Normative Policy Analysis is an exercise designed to introduce students with policy interests to the application of analytical political philosophy to the understanding of value issues and policy decisions.

866. Philosophy and Public Affairs  
Lawrence R. Ashley, and  
Robert L. Schwager, Philosophy  
State University of New York  
Cortland, NY 13045  
Philosophy  
Graduate  
Grad  
Use of philosophical techniques in consideration of public affairs. Sample topics include abortion, war, racial discrimination, privacy, civil disobedience.
867. Politics of Change (P)  
Joseph Haberer, Political Science  
Purdue University  
West Lafayette, IN 47907  
Political Science  
Introductory  
Introductory, modular, team taught--modules include, "Technology and the Future," "Science Fiction and Political Change," "Work, Leisure and Politics," and others.
868. Power, Public Policy and Technology  
Daniel Pound, Political Science  
Department of Political Science  
University of Alabama at Tuscaloosa  
University, AL 35486  
Political Science  
Advanced  
Undergrad/grad  
This is a course which analyzes changing power relationships in post-industrial society along with changes in our concepts. These changes are related to the public policy realm as we calculate flux in the near future.
869. Public Policy, Administration and Political Theory  
Brewster C. Denny and Prof Levi  
Graduate School of Public Affairs  
University of Washington  
Seattle, WA 98195  
Public Policy  
Grad, mid career students  
Examines the meaning of democracy in the context of American public policies and administration. The perspective of individual and group participation in the policy process, the individual's role in organization, the functions of the public servant in the making of policy decisions, and the realities of policy formulation in relation to democratic values. Objective of the course is to enable the student professionally committed to public activity to reflect in a discussion setting upon his or her position as a participant in the society in which he or she works.
870. Public Policy and Social Ethics  
Barry Pehrsson, Sociology  
Conrad Dietz, Philosophy  
Cathedral College  
7200 Douglaston Parkway  
Douglaston, NY 11362  
Sociology  
Advanced  
Undergrad  
A theoretical and empirical analysis of the formation of social welfare policy from the perspective of sociology and ethics. The course emphasizes an analysis and critique of the value orientation which guide policy formation.
871. Science and Government (P)  
Joseph Haberer  
Prof. Nicholson-Johnson  
Purdue University  
West Lafayette, IN 47907  
Political Science  
Introductory  
Introductory STPP course. Covers some EV\*ST issues. Taught every semester by members of the Science Technology Public Policy program.

872. Science and Policy Physics and Astronomy  
 Dietrich Schroeder, Physics and Astronomy  
 University of North Carolina  
 Chapel Hill, NC 27514  
 Advanced  
 Undergrad/grad

The problems of using expert knowledge in democratic policy formation. These relate to communication within scientific disciplines, scientists values, and the use of scientific information and personnel in decision-making.

873. Science and Public Policy General Administration  
 Reverdy T. Gliddon, General Administration  
 University of Missouri  
 5100 Rockhill Road  
 Kansas City, Missouri 64153  
 Grad

Examination of science in cultural perspective, particularly as an aspect of public affairs. The evolution of technological perspectives and their impact on the traditions of groups and organizations. The emergence of modern policy analysis.

874. Science in Society Arts and Sciences  
 Joel Seibin  
 Louisiana State University  
 Baton Rouge, LA 70803  
 Introductory  
 Undergrad

An honors course which will consider the science-society interface, focusing on the impact and constraints of each on the other. Questions considered will include those arising from the relationship of science and technology to public policy and the environment.

875. Science, Technology, and Politics Political Science  
 Mark S. Frankel, Political Science  
 Wayne State University  
 Detroit, MI 48202  
 Introductory  
 Undergrad

A look at the formulation and implementation of public policy for science and technology and how these processes are affected by individual and social values.

876. Science, Technology and Public Policy (P) Political Science  
 Joseph Haberer, Political Science  
 Purdue University  
 West Lafayette, IN 47907  
 Undergrad/grad

A dual advanced course, focusing very heavily on the normative issues and systemic problems emerging from the impact of science and technology on the social order.

877. Science, Technology and Public Policy (P) History and Philosophy of  
 Dennis Livingston, History and Philosophy of  
 Science  
 Rensselaer Polytechnic Institute  
 Troy, NY 12181  
 Introductory  
 Undergrad

To study policy issues raised by advances in science and technology, the policy process for reaching decisions about science and technology development, and professional and value controversies raised by such development.

878. Seminar in Science and Public Policy  
Staff  
Graduate School of Public Affairs  
University of Washington  
Seattle, WA 98195
- Public Policy  
Grad, mid career students
- issues and problems relating to the interaction of science and scientists with the public policy-making process. Nature and values of science versus the nature and values of political processes, and the continuing tensions between the two. The evolving interaction between scientific and technical knowledge and political power; scientific versus ethical judgments. Role of science in the establishment of national goals. Plans and proposals for increasing governmental competence to deal with public policy issues involving science and technology.
879. Senior Seminar in Science and Public Policy (P)  
Clifford Grobstein  
University of California, San Diego  
La Jolla, CA 92093
- STPA  
Advanced  
Undergrad
- Discussion of requirements for effective utilization of scientific knowledge in public policy analysis with examples presented by experts on such issues as impact of bio-medical advances, technology in relation to national needs, nuclear power and nuclear weapons and implications of space exploration.
880. Social Science, Ethics, and Policy (P)  
Prof. Rice, Technology and Society  
Raymond College  
University of the Pacific  
Stockton, CA 95211
- Technology and Society  
Undergrad
- Examines the interrelationship of the social sciences, ethics and social policy. Considered will be ethics, humanistic concern for the quality of life policies related to the poor, the quest for racial equality, old age, the education process, and the question, "who plans for whom?"
881. Social Experimentation as Policy Analysis  
Mark S. Frankel, Political Science  
Wayne State University  
Detroit, MI 48202
- Political Science  
Advanced  
Grad, sci, political sci,  
public administration majors
- A look at the application of the experimental method to social problems, with special emphasis on the legal and ethical implications of such an approach.
882. Social Philosophy  
William W. Paul, Philosophy  
Central College  
Pella, IA 50219
- Philosophy  
Introductory  
Undergrad
- Ethical and policy issues raised in contemporary society by science and technology. Selected readings from environmental studies, biomedicine, and psychology.
883. Social Policy  
Elizabeth D. Huttman  
Robert C. Forthman  
California State University  
Hayward, CA 94542
- Sociology  
Advanced  
Undergrad
- Policy affecting social services including influence of values on public policy, and impact of these policies as they affect minorities.

884. Social Science and Social Policy History and Sociology of Science  
Henrika Kuklick, History and Sociology of Science  
University of Pennsylvania  
Philadelphia, PA 19104  
Middle level  
Undergrad
- The interaction of social and intellectual forces as they determine the content and influence of the social and behavioral sciences. How these have influenced business, industry and government in the U.S. from the turn of the century to the present and the intellectual and ethical issues raised thereby.
885. Technology and Policy Proseminars (P) Technology and Policy Program  
Thomas Sheridan, Mechanical Engineering  
Marvin Sirbu, Center for Policy Alternatives  
David Noble, Humanities  
Massachusetts Institute of Technology  
Cambridge, MA 02139  
Advanced  
Grad, engineering majors
- Designed to develop the students' ability to analyze problems involving the interaction of technology with economic and social considerations. Exercises in problem formulation, design, analysis and evaluation of alternative policies and hardware configurations. Problems of institutional change. Case studies, projects drawn from fields such as energy, transportation, communications, health care, automation. Emphasis on written, oral and graphical communication of results. This effort, consisting of about one-third associated faculty in the School of Humanities and Social Science and explicitly designed to insure that the student experiences a perspective outside that of technology itself.
886. Technology and Society (P) STPA  
Sanford A. Lakoff  
Herbert F. York  
Roger R. Reveile  
University of California, San Diego  
La Jolla, CA 92093  
Advanced  
Undergrad
- This course examines the impact of advances in science and technology on society. Among the topics considered: the theory of post-industrial society, the debate over limits to growth, the energy crisis, the making of science policy, and the roles and responsibilities of scientists and technologists in politics.
887. Value, Choice and Risk in Modern Technology (P) Technology Studies Program  
J. Yellin  
Massachusetts Institute of Technology  
Cambridge, MA 02139
- Deals with the social effects of 20th century technology, as viewed from historical, contemporary political and scientific perspectives. A common thread of risk and uncertainty, as background for value choices involved in social decisions to create particular technological systems, runs throughout.
888. Values, Epistemology, and Policy Engineering  
Kan Chen, Electrical and Computer Engineering  
University of Michigan  
Ann Arbor, MI 48109  
Advanced  
Grad

A graduate-level interdisciplinary seminar course examining the human value implications and the epistemological basis of policy science, engineering design, and professional planning activities.

5.02. Control of Science/Technology

889. Arms and Arms Control (P)  
Herbert F. York  
University of California, San Diego  
La Jolla, CA 92093
- STPA  
Advanced  
Undergrad
- Designed to explore and analyze a particular current issue in technology policy and how society goes about coping with it. The technological, political, and strategic ideas that underline both the nuclear-arms race and attempts to control it will be discussed in a historical perspective.
890. Democratic Political Theory  
James L. Danielson, Political Science  
North Texas State University  
Denton, TX 76203
- Political Science  
Advanced  
Grad/undergrad
- Postulates and implications, moral foundations and various forms of democratic theory; democratic theory and the economic, social and technological systems; problems of theory and practices; criticisms and justifications.
891. Federal Regulation of Science and Technology (P)  
Michael S. Baram  
Franklin Pierce Law Center  
Concord, NH 03301
- Law school  
Advanced  
Grad, sci, law, med
- Analysis of administrative law, agency decision-making and judicial review as used for promoting and regulating scientific and technological developments. Agency standard-setting, assessment of new technologies, and other aspects of risk management are discussed in the context of specific problems, e.g. nuclear power, solar energy, offshore mineral resources, biomedical devices, and chemical hazards to human health. Various proposals for reforming the regulatory process are evaluated.
892. Introduction to Social Ethics  
Robert Coburn, Philosophy  
University of Washington  
Seattle, WA 98195
- Philosophy  
Introductory  
Undergrad
- Discussion of social ideals and their implementation in complex industrialized societies. Specific topics include: democratic decision-making in connection with technological developments, the impacts of current technological developments on "the human prospect," distributing the burdens and benefits of social life in highly technological societies, and the place of liberty in such societies.
893. Introduction to Technology and Law  
Prof. M. S. Baram, et al  
Massachusetts Institute of Technology  
Cambridge, MA 02139
- Civil Engineering  
Advanced  
Grad/undergrad
- An introduction to the basic principles and functions of law, using legal cases and materials arising from scientific and technical issues. Provides an understanding of the law and legal processes as they impact upon the work of engineers and scientists. Study of judicial law-making shows how federal and state power to govern grows as technology grows. Law's task of resolving conflicts found in scientific and engineering alternatives sensitizes students to choice of values questions.

894. Law and the Social Control of Science and Technology Civil Engineering  
 M.S. Baram, Civil Engineering Advanced  
 Massachusetts Institute of Technology Grad  
 Cambridge, MA 02139
- Analysis of legal methods for control of science and technology including: common law to internalize social costs; legislation and administrative law to regulate experimentation and applications assessment methods for policy and program design; and judicial review of agency standard-setting and other actions. Consideration of information access problems and the development of effective roles for citizens groups. Focus on problem areas to be selected such as nuclear power, offshore mineral exploitation, new chemicals and hazards to human health.
895. Law and Technology Chemistry  
 Harold Ward, Chemistry Advanced  
 Brown University Undergrad  
 Providence, RI 02912
- An examination of the various modes of technology control, with emphasis on administrative and environmental law.
896. Law and Technology: Seminar Law  
 Richard W. Wright Introductory  
 Benjamin N. Cardozo Law school  
 School of Law Law students  
 Yeshiva University  
 New York, NY 10003
- Place of law in evolving interactions of values and technology in a democratic society. Case studies on, e.g. genetic engineering, mass information utilities, prolonging life, natural areas.
897. Politics of Technical Decisions (P) Science Technology & Social  
 D. Nelkin and Program  
 J. Milch, Science Technology & Social Advanced  
 Program Grad, mixed student population  
 Cornell University  
 Ithaca, NY 14853
- Political aspects of policy decisions in areas traditionally defined as "technical." Historical and political science perspective on the development of technical institutions.
898. Role and Management of Modern Technology (P) Technology and Human Affairs  
 Rolf Buchdahl Advanced  
 Technology and Human Affairs Grad, sci/nonsci majors  
 Washington University  
 St. Louis, MO 63130
- Modern technology as a major factor leading to societal change; role and management of technology in three sectors: universities, industry and government. For each sector, analysis of process of setting goals, translating goals into specific technological objectives and execution of the technological effort. Factors emphasized include internal and external constraints, conflict resolution, resource allocation, innovation versus discovery, evaluation of success or failure based on actual case studies.

899. Science and Government  
Lawrence Badash, History  
University of California  
Santa Barbara, CA 93106  
History  
Introductory  
Grad/undergrad, sci/nonsci
- A survey of post-war science-government relationships, emphasizing the Federal government, but including state and local efforts. The nature of scientific advice, its value-component, and its effectiveness are discussed.
900. Science and Government (P)  
John Steinhart, Geology  
Institute for Environmental Studies  
University of Wisconsin  
Madison, WI 53706  
Political Science/Geology  
Advanced  
Undergrad/grad, sci and nonsci
- The effect of science and technology.
901. Society, Government and the Environment  
Iona College  
New Rochelle, NY 10801  
Interdepartmental studies  
Introductory  
Undergrad
- A comprehensive treatment of environmental problems facing man in the twentieth century. This course is taught by three faculty members from the disciplines of biology, sociology, and history-political science. Human ecology, that is, man's relations and interactions with his environment, effect of the changes man has made on the environment and effects of these changes on society will be discussed. This study encompasses an investigation into the political and sociological motivations, attitudes and results of group actions. The course will consist of formal two-hour seminars; independent study and field trips.
902. Science in American Society (P)  
Ingrid Deich, Sociology  
University of Missouri  
Rolla, MO 65401  
Sociology  
Introductory  
Grad/undergrad, nonsci
- Organizational approach. Three settings of R and D: the university, industry, government. The effect of the goals, policies, and structures of the organization on the conduct and outcome of research and development.
903. Science, Politics, and Government  
William Bevan and  
John McKinney  
Duke University  
Durham, NC 27706  
Psychology  
Advanced  
Undergrad/grad
- The structure and values of the scientific community, the mechanism and strategies of government, and their mutual interdependence in American society.
904. Technology and Human Values (P)  
Leander Schwartz  
University of Wisconsin  
Green Bay, WI 54302  
Freshman University Seminars  
Program  
Introductory  
Undergrad
- Is there a conflict between science and society? Or is science, instead, a part of society? After discussion of the technological developments which are likely to occur in the future, a series of articles in "Science" and "Scientific American" will be used as the basis for an analysis of the types and extent of social control of society. Included will be a discussion of what forms of control are available, and how much is desirable.

905. Topics in Technology and Cultural Institutions:  
Legal and Ethical Issues in Technology (P) Philosophy  
Advanced  
Undergrad  
Jules Coleman, Philosophy  
University of Wisconsin  
Milwaukee, WI 53201

A discussion of environmental control, allocation, exotic medical resources and providing an education in a technological world.

5.03. Role of Scientists/Engineers in Public Policymaking

906. Arms, Power and the Engineer (P) Aeronautics and Astronautics  
Astronautics  
Introductory and advanced  
Undergrad  
L. Trilling  
Massachusetts Institute of Technology  
Cambridge, MA 02139

This subject examines the cultural, social and technical factors which underlie the exercise of political power. It describes how the consequences of technical progress and the new world outlook which developed in the West after the Renaissance transformed the selection, the style and the goals of the power-elite in England, France, China and Japan, and how a more effective military technology has affected our views on war-making and the reach of the state. Finally, it examines the role of the engineer and of the scientist in the process of making decisions which involve "high" technology and its effects in national power and human welfare.

907. Modern Science and Politics Philosophy  
Advanced  
Grad  
E. Manier, Philosophy  
University of Notre Dame  
Notre Dame, IN 46556

Problems arising in political philosophy in connection with the new role of the scientific expert as government advisor and political debate over public policy. Evolving social structure of modern science and changing relations with larger society.

908. Seminar in Public Interest Science (P) Technology Studies Program  
Undergrad  
C. Weiner  
B.T. Feld and  
H.W. Kendall  
Massachusetts Institute of Technology  
Cambridge, MA 02139

Intended to introduce students in science and engineering to the approaches and methods used by professional scientists and engineers in contributing to the solution of technical aspects of issues of social relevance. Subjects include: future of nuclear power and nuclear weapons; weapons-technology and the dangers of war; problems raised by new developments in molecular biology.

909. Topics in the Impact of Technology (P) Socio Humanistic Studies  
Program  
Introductory  
Engineering students  
Charles K. Hyde, et al  
Monteith College  
Wayne State University  
Detroit, MI 48202

The first part of the course is an examination of bureaucratic-planning systems like that of the contemporary U.S. and the role of the scientific-technological elites in that system. The second part of the course is an examination of the social responsibility of scientists, while the last part examines the nature of individual and societal decision-making with regard to science and technology.

5.01. Technology Assessment/Forecasting

910. Economics of Technological Innovation  
 Martin J. Davidson  
 North Texas State University  
 Denton, TX 76203
- Economics  
 Advanced  
 Grad, nonsci, business,  
 economics majors
- Critical role of technological innovation as a determinant of economic growth in a mature economy. Relation of science to technology; social relevance of technology; special nature of research and development, science policy and the federal government, technological planning and forecasting; competition monopoly and resistances to innovation.
- ii. Future Society  
 Lester Milbrath, Environmental Studies  
 State University of New York  
 Buffalo, NY 14214
- Environmental Studies Center  
 Advanced  
 Grad
- Identify types of futures forecasting; examine and criticize forecasting methodology. Examine linkages between forecasting and planning and policy making. How does politics constrain the use of forecasting and long-range planning?
912. Perspectives on Technology Assessment (P)  
 Jerry Gravander, Humanities  
 Clarkson College of Technology  
 Potsdam, NY 13676
- Humanities  
 Advanced  
 Undergrad, sci/nonsci, engineering, management majors
- This course examines the philosophy and current status of technology assessment. Theory and practice are combined through use of a variety of standard academic and non-standard "hands-on" activities.
913. Science, Values, and Public Policy  
 Robert Snow, Lyman Briggs College  
 Michigan State University  
 East Lansing, MI 48824
- Lyman Briggs College  
 Intermediate  
 Undergrad
- Case studies of the world food problem and health care delivery using a technology assessment framework.
914. Technology and Society  
 Gary A. Flandro, Mechanical Engineering  
 J.D. Seader, Chemical Engineering  
 Department of Mechanical Engineering  
 University of Utah  
 Salt Lake City, UT 84112
- Liberal Education  
 Introductory  
 Undergrad, nonsci majors
- Course concentrates on interaction between technology and society, emphasizes feedback mechanisms, technology assessment. Long-range technological planning.

915. Technology Assessment (P)  
 Paul Daitch, Engineering  
 Vernon Ferwerda, Political Science  
 John Koller, Philosophy  
 Rensselaer Polytechnic Institute  
 Troy, NY 12181
- Human Dimensions Center  
 Advanced  
 Undergrad, sci, engineering,  
 majors

How can we ensure that our technologies will help us create a better future world? The course aims at developing methods and skills for doing technology assessments, and attempts to deepen our understanding of human values and social change. Concepts of value, social change, assessment and technology are explored and particular methods of assessment--Cross Impact Analysis, Relevance Tree, Delphi, Cost-Benefit Analysis--are examined. Emphasis on human and social dimensions of technological change; technical and economic considerations are included.

916. Technology Assessment and Public Policy (P)  
 William P. Darby  
 Washington University  
 Box 1106  
 St Louis, MO 63130
- Technology and Human Affairs  
 Advanced  
 Undergrad/grad

Techniques for anticipation of social economic, human, and environmental consequences of technological development to provide the public and policy makers with sound bases for decision-making. Topics include definition and nature of technology, the need for formal technology assessments, technological forecasting, and state of the art. Students working in interdisciplinary teams will carry out pilot technology assessments.

917. Technology Assessment and Social Change  
 Devendra P. Garg, Mechanical Engineering  
 School of Engineering  
 Duke University  
 Durham, NC 27706
- Engineering/Public Policy  
 Science  
 Advanced  
 Undergrad, sci/nonsci, biomed  
 engineering

The course is aimed to provide an awareness and appreciation of nontechnical issues associated with development and use of current and future technologies.

918. Technology Assessment Concepts and Methods  
 Richard Watson, Social Management of Technology  
 University of Washington  
 Seattle, WA 98195
- Social Management of Technology  
 Introductory  
 Undergrad/grad, sci, nonsci

Technology assessment is suggested as the systematic study of the various impacts on society that may occur when a technology is introduced, extended, or modified. Prepares student to perform a technology assessment through exploration of the concept, investigation of various methods, and analysis of several assessments.

919. Technology Forecasting and Assessment (P)  
 Robert S. Goodrich  
 Technology and Public Policy  
 Vanderbilt University  
 Nashville, TN 37235
- Technology and Public Policy  
 Program  
 Advanced  
 Undergrad/grad

Designed to acquaint students with philosophical underpinnings and methodological techniques for forecasting and assessing technological development. Current technology assessments are used as case studies to discuss impact analysis, policy formulation, etc. A technology forecasting and impact analysis term project required of each student.

## OTHER PROGRAMS AND COURSES RELATED TO EVIST

### 1. SCIENCE, TECHNOLOGY, AND SOCIETY

Science and society/technology and society  
 Biology and society  
 Genetics/heredity and society  
 Race  
 Human sexuality  
 Evolution  
 Chemistry and society  
 Physics and society  
 Computers and society  
 Communications and society  
 Women, science, and technology  
 History of science/technology  
 Philosophy of science/technology  
 Science, technology, and public policy  
 Technology assessment  
 World futures

### 2. ENVIRONMENTAL CONCERNS

Environment and society  
 Environmental science  
 Ecology/environmental biology  
 Environmental chemistry  
 Geosciences and the environment  
 Natural resources management  
 Energy  
 Agriculture, food, and society  
 Urban studies  
 Environmental policymaking

### 3. HEALTH CARE

Health care  
 History of medicine  
 Aging/gerontology  
 Death and dying

### 4. CONTEMPORARY MORAL AND ETHICAL PROBLEMS

## OTHER PROGRAMS AND COURSES RELATED TO EVIST

## 1. SCIENCE TECHNOLOGY, AND SOCIETY

Science and Society/Technology and Society

- The Age of Flight (Aerospace Engineering), Pennsylvania State U, PA  
 Archaeology (Art), Bucknell U, PA  
Center for Social Science Applied Research, Neil J. Hackett (Social Sciences), Oklahoma State U, OK  
 Conservation Archaeology (Anthropology), Southern Illinois U at Carbondale, IL  
 The Culture of Western Man, Arthur M. Kelly, Warner Pacific College, OR  
Curriculum in Science and Culture, L. E. Trachtman, Purdue U, IN  
 Cybernation: Impact of Science on Society (Physics), Baylor U, TX  
 Dynamics of Change: The Impact of Technology (Technology and Public Policy), Vanderbilt U, TN  
 Geography, Science, Society (Geography), Western Kentucky U, KY  
 History of Science and Society (History/Science), Western Carolina U, NC  
 Honors in Mathematics and the Sciences (Science), California State College, Bakersfield, CA  
Humanities Development Program: Science, Technology and Values, Richard Astro (English), Oregon State U, OR  
 Humanity and Technology (Industry and Technology), Northern Michigan U, MI  
 Human Nature and the Impact of Science (German), U of Iowa, IA  
 The Human Problem of the 20th Century (General Studies Social Science), Eastern Kentucky U, KY  
 Impact of Engineering Technology on Society (General Engineering), Kansas State U, KS  
 Impact of Technology on Society (Engineering), California State U, Los Angeles, CA  
 Introduction to Social Factors in Technology (Social Sciences), U of Missouri--Rolla, MO  
 Macro Societal Systems Engineering (Engineering/Humanities), U of Michigan, MI  
 Man and His Technology (Natural Science Service Area), Iona College, NY  
 Man and Machine: Culture and Technology (Crown College), U of California, Santa Cruz, CA  
 Man and Technology (Technology), Fairmont State College, WV  
 Man and Technology (Math, Science, Technology), Niagara County Community College, NY  
 Man and Technology (English), Southern Technical Institute, GA  
 Man and Technology (Engineering), Villanova U, PA  
 Man vs. Science (Biology), Chatham College, PA  
 Man's Scientific Activity (General Studies), Rhode Island College, RI  
 Origins and Results of the World's Space Programs (Contemporary Issues), U of California, San Diego, CA  
 Problems in Technology and Society--1700 to Present (Humanities/History), U of Michigan, MI  
Program in Comparative Culture, Joseph G. Jorgensen (Comparative Culture), U of California, Irvine, CA  
 Science and Humanity (Natural Science), Plymouth State College, NH  
 Science and Society (Physical Science), California Polytechnic State U, CA  
 Science and Society (Physical Science), California Polytechnic State U, CA  
 Science and Society (Geology and Sociology), Delta College, MI  
Science and Society, Leland P. Johnson (Biology), Drake U, IA  
 Science and Society (General Studies Science), Eastern Kentucky U, KY  
 Science and Society (Physics), Ithaca College, NY  
 Science and Society (Interdisciplinary Studies: Math/Science), Kirkwood Community College, IA  
 Science and Society (History), Midwestern State U, TX  
 Science and Society (Natural Science and Math), Oregon College of Education, OR  
 Science and Society (Natural Science), Stephens College, MO  
 Science and Society (University College), U of Maryland, MD  
 Science and Society (Honors), Villanova U, PA  
 Science and Society in the 19th and 20th Centuries (History), U of Connecticut, CT  
 Science and Society: U.S. Science (History), St. Mary's College of Maryland, MD  
 Science and the Modern World (Philosophy), U of Texas, TX  
 Science, Biology, and Society (Biology), U of Minnesota, MN  
 Science in Civilization (Interdisciplinary), Beaver College, PA  
 Science in Society (Physical Science), College of St. Scholastica, MN  
 Science, Man, and Society (Natural Science), Michigan State U, MI  
 Science, Society, and Survival (Physical Science), Chicago State U, IL  
 Science, Technology, and Civilization (Science), Washington State U, WA  
 Science, Technology, and Human Affairs (Biology and Physics), Marist College, NY  
 Science, Technology, and Man (Physical Science), Essex Community College, MD

Science, Technology, and Society (112A), Grove City College, PA  
 Science, Technology, and Society (Philosophy), U of New Hampshire, NH  
 Science, Technology, and the Modern World (Philosophy), U of Tennessee, TN  
 Science, Technology, Society (Science), Simon's Rock Early College, MA  
 Scientist in Today's World (ID), College of St. Catherine, MN  
 Seminar in the Social Sciences (Social Sciences), Saint Paul's College, VA  
 Seminar on the Results and Value of the Space Programs (Science, Technology, and Public Affairs),  
 U of California, San Diego, CA  
 Seminar on Technology and Society (Industrial Engineering), U of Wisconsin, WI  
 Senior Seminar in Science and Society (General Studies), Purdue U, IN  
 Social and Institutional Economics (Economics), California State U, Chico, CA  
 Social Organization of Technology: A Comparative Perspective (Sociology), U of Wisconsin,  
 Milwaukee, WI  
 Social Psychology of Science (Psychology), Johns Hopkins U, MD  
 Social Values and Economic Society (Economics), U of Arkansas, AR  
 Society and Technology (Humanities and Engineering), Christian Brothers College, TN  
 Society and the Economic Transition (Monteith College), Wayne State U, MI  
 Sociocultural Problems of Technology (Interdisciplinary General), Southern Illinois U, Edwards-  
 ville, IL  
 Sociology of Knowledge (Sociology), U of Maine at Orono, ME  
 Sociology of Modern Science (Sociology), Villanova U, PA  
 Socio-Technology (Engineering), U of Mississippi, MS  
 Special Problems in STS (STS), Clark U, MA  
 The Technological Society and the Thrust for Growth (Integrated Studies), Pacific Lutheran U, WA  
 Technology and Civilization (Liberal Arts), Central New England College of Technology, MA  
 Technology and Decentralization (Philosophy), U of Wisconsin, Milwaukee, WI  
 Technology and Man (Electrical Engineering), Marquette U, WI  
 Technology and Man (Humanities), U of Michigan, MI  
 Technology and Politics (Political Science), State U of New York at Buffalo, NY  
 Technology and Social Change (Engineering), Florida Technological U, FL  
 Technology and Social Change (Philosophy), Marquette U, WI  
 Technology and Social Change (Raymond College), U of the Pacific, CA  
 Technology and Society (Engineering), California State U, Northridge, CA  
 Technology and Society (Engineering), McNeese State U, LA  
 Technology and Society (Engineering), Michigan State U, MI  
 Technology and Society (History), North Carolina Wesleyan College, NC  
 Technology and Society (Engineering and Social Sciences), Rice U, TX  
 Technology and Society (Electrical Engineering/Political Science), The Citadel, SC  
 Technology and Society (Civil Engineering/Interdisciplinary Studies), U of Hawaii, HI  
 Technology and Society (Civil Engineering), U of the Pacific, CA  
 Technology and Society (Electrical Engineering), Washington State U, WA  
 Technology and Society: Impact and Implication (Engineering), Hofstra U, NY  
 Technology and Urban Industrial Development (Urban Affairs), U of Wisconsin, Milwaukee, WI  
 Technology, Humanity, and Nature (Values, Technology, and Society), Stanford U, CA  
 Underclass Seminar in Science and Society (General Studies), Purdue U, IN  
 Work and Leisure (Organizational Administration), U of Detroit, MI

#### Biology and Society

Animal-Human Behavior (NEXA, Humanities), San Francisco State U, CA  
 Biological Problems in Society (Biology), New River Community College, VA  
 Biology and Human Affairs (Biology), Burlington County College, NJ  
 Biology and Human Welfare (Biology), California State U, Northridge, CA  
 Biology and Modern Society (Biology), Washington U, MO  
 The Biology and Psychology of Women (Women's Studies), U of Wisconsin, WI  
 Biology and Society (Biology), Brooklyn College, NY  
 Biology and Society (Biology), California State U, Fresno, CA  
 Biology and Society (Biology), Eastern Montana College, MT  
 Biology and Society (Biology), U of Evansville, IN  
 Biology and Society (Science), Westbrook College, ME  
 Biology for Nonscience Majors (Biology), U of New Mexico, NM  
 Biology in Contemporary Life (Biology), Western Illinois U, IL  
 Biology in Human Affairs (Biological Science), U of Illinois at Chicago Circle, IL  
 Biology of Human Concern (Biology), C. W. Post College, NY

Biology of Man (Biology), St. Bonaventure U, NY  
 Biology Seminar (Biology), Hofstra U, NY  
 The Body Electric (Humanities), Milton S. Hershey Medical Center, Pennsylvania State U, PA  
 Contemporary Issues in Biology (Biology), Wheaton College, IL  
 Controversial Issues in Biology (Biology), Fort Lewis College, CO  
 Current Concepts in Biology (Biology), Mount Mary College, WI  
 Critical Thinking: Biomedical Ideas and Culture (Philosophy, Health Science, English), U of Delaware, DE  
 Human Biology (Biology), U of Wisconsin--LaCrosse, WI  
 Humanistic Biology (Biological Science), Brandeis U, MA  
 Issues in Biology (Biology), Central College, IA  
 Social Biology, North Country Community College, NY  
 Social Impacts of Biology (Biology), Purdue U, Calumet Campus, IN  
 Social Implications of Biology (Biology), Kean College of New Jersey, NJ  
 Structure and Issues in Biology (Biology), Seattle Pacific College, WA

#### Genetics/Heredity and Society

Concepts of Genetics (Biology), Cardinal Stritch College, WI  
 Foundations of Human Heredity (Biology), Wichita State U, KS  
 Genes, Heredity and Society (Biology), Old Dominion U, VA  
 Genetics (Science-Math), Villa Maria College, PA  
 Genetics and the Future of Man (#324), U of Kansas, KS  
 Genetics of Man (Biology), State U of New York at New Paltz, NY  
 Heredity and Human Affairs (Biology), Millersville State College, PA  
 Heredity and Human Affairs (Genetics), U of Southern Mississippi, MS  
 Heredity and Society (Biology), North Carolina Central U, NC  
 Heredity, Evolution and Culture (Biology), William Rainey Harper College, IL  
 Heredity, Evolution and Society (Biology), Belmont Abbey College, NC  
 Heredity, Evolution and Society (Biology), Seton Hill College, PA  
 History and Philosophy of Genetics (Humanities), Milton S. Hershey Medical Center, Pennsylvania State U, PA  
 Human Genetics and Societal Problems (Life Sciences), Sam Houston State U, TX  
 Human Genetics and the Problems of Mankind (Biology), Ball State U, IN  
 Human Heredity (Natural Science), Pepperdine U, CA  
 Human Heredity and Society (Biology), Greensboro College, NC

#### Race

Biological and Medical Aspects of Race (Afro-American Studies), U of Wisconsin, WI  
 Race, Evolution of an Idea (Natural Science), Michigan State U, MI  
 Race, Socio-economic Status and Intellectual Development (Afro-American Studies, Educational Psychology, Psychology), U of Wisconsin, WI  
 Scientific Racism: Biology as a Tool of Institutional Racism (Biology), Augsburg College, MN

#### Human Sexuality

Dimensions of Human Sexuality (Interdisciplinary), Loyola College, MD  
 Health, Sexuality, and Family Life (Health Science), Ball State U, IN  
 Human Sexuality (Health Science), California State U, Fresno, CA  
 Human Sexuality (Psychology), Cypress College, CA  
 Human Sexuality (Biology), U of Missouri--Kansas City, MO  
 Human Sexuality (BioSciences), U of Southern California, CA  
 Human Sexuality (Sociology, Psychology), West Georgia College, GA  
 Sex and the Life Cycle (Mental Health Sciences), Hahnemann Medical College and Hospital of Philadelphia, PA  
 Sexual Values in the Visual Arts (Humanities), Milton S. Hershey Medical Center, Pennsylvania State U, PA  
 Teaching Human Sexuality (Sociology), West Georgia College, GA  
 Workshop on Human Sexuality for Hospital Personnel (Sociology), West Georgia College, GA

Evolution

The Darwinian Revolution (NEXA), San Francisco State U, CA  
 Human Nature and Sociobiology (Psychology), Massachusetts Institute of Technology, MA  
 Philosophical Biology (Biology), Andrews U, MI  
 Science, Man and Society (Natural Science), Michigan State U, MI  
 Search for Life in the Universe (Astronomy); Boston U, MA

Chemistry and Society

Chemistry and Civilization (Chemistry), Bradley U, IL  
 Chemistry and Contemporary Issues (Chemistry), Washington State U, WA  
 Chemistry and Contemporary Society (Chemistry), Alvernia College, PA  
 Chemistry and Man (Chemistry), Central Missouri State U, MO  
 Chemistry and Modern Culture (Chemistry), Mount Marty College, SD  
 Chemistry and Modern World (Chemistry), Essex Community College, MD  
 Chemistry and Society (Chemistry), Duquesne U, PA  
 Chemistry and Technological Society (Chemistry), Amherst, MA  
 Chemistry for Citizens (Chemistry), Millsaps College, MS  
 Chemistry for the Citizen (Chemistry), U of New Mexico, NM  
 Chemistry--Its Role in Society (Chemistry), U of South Alabama, AL  
 Contemporary Chemistry (Chemistry), Western Illinois U, IL  
 Modern Alchemy (Chemistry), U of Wisconsin--River Falls, WI  
 Survival in the Age of Chemistry (Chemistry), Fairleigh Dickinson U, NJ

Physics and Society

Physics and Human Affairs (Physics), U of Arkansas, AR  
 Physics and Society (Physics), Lynchburg College, VA  
 Physics and Society (Physics), Northeast Louisiana U, LA  
 Physics and Society (Physics), Northern Illinois U, IL  
 Physics and Society (Physics), U of Arkansas at Little Rock, AR  
 Physics and Society (Physics), U of North Carolina, NC  
 Physics for Society: Introduction to Philosophy (Physics/Philosophy), Bowling Green State U, OH  
 Physics for Society (Physics), Western Illinois U, IL  
 Physics, Power, Pollution and Government (Physics), U of Delaware, DE

Computers and Society

The Computer Age (Computer Science), Cornell U, NY  
 Computers and People (Electrical Engineering), U of California, Davis, CA  
 Computers and Societal Problems (Computer Science), George Washington U, DC  
 Computers and Society (Science and Technology), Loyola Marymount U, CA  
 Computers and Their Social Impact (Computer Science), Moorhead State U, MN  
 Computers in Society (Computer Science), U of Wisconsin--Oshkosh, WI  
 Introduction to Computer Science or Computer and Society (Computer Science), U of South Carolina, SC

Communications and Society

Center for Information and Communications Study (CICS), George Arnovick, California State U,  
 Chico, CA  
Center for Research in Scientific Communication, William D. Garvey (Psychology), Johns  
 Hopkins U, MD  
 Communicating Science (Residential College), U of Michigan, MI  
 Communication with Families across Culture, Class, Race and Religion (Home Economics and Consumer  
 Studies), Brooklyn College, NY  
 Human Communications and Technology (Communications), U of Wisconsin--Milwaukee, WI  
 Mass Media in Modern Society (Speech), Monmouth College, IL  
 Modern Communication Systems and Society (Center for Information and Communication Studies),  
 California State U, Chico, CA  
Rocky Mountain Institute in Communication, Roy C. Nelson (1977 Director) (Technical Journalism),  
 Colorado State U, CO

Women, Science, and Technology

Philosophy of Feminism (Philosophy), Bowling Green State U, OH  
 Women in Science, Medicine and Technology (History and Health Science), U of Delaware, DE  
 Women, Science and Society (Women's Studies), George Washington U, DC

### History of Science/Technology

- Age of Invention/Age of Energy (History), Lynchburg College, VA
- American Intellectual and Cultural History since 1859 (History/Religious Studies), U of Illinois at Urbana-Champaign, IL
- American Intellectual and Cultural History since 1865 (History/Religious Studies), U of Illinois at Urbana-Champaign, IL
- American Science and Technology (History), U of California, Davis, CA
- The Arms Race (History), U of California, Santa Barbara, CA
- The Ascent of Man (Honors), Indiana U Northwest, IN
- Ascent of Man (Natural Sciences/Philosophy), Ouachita Baptist U, AR
- The Ascent of Man (Natural Science), Waubensee Community College, IL
- Ascent of Man Seminar, Ronald Stoner, Bowling Green State U, OH
- The Ascent of Man: A Film and Dialogue Experience, Marion Parsons (Continuing Education), Kean College of New Jersey, NJ
- The Ascent of Man: A Personal View by J. Bronowski (Interdisciplinary), U of California, San Diego, CA
- Astronomy's Contribution to Western Culture (Astronomy), U of Southern California, CA
- Case Studies in Socio-Technological History (Values, Technology, Society), Stanford U, CA
- Changing Concepts of the Universe (Natural Science), Michigan State U, MI
- Contemporary Natural Science (Natural Science), Cosumnes River College, CA
- Development of Man's Understanding of the Physical World (Humanities), U of Arkansas, AR
- Discovery and Interpretation: The History and Philosophy of Chemistry and Physics (Interdisciplinary), Earlham College, IN
- Emergence and Growth of New Research Fields: A Social History (Technology Studies Program), Massachusetts Institute of Technology, MA
- Engineering and Technology in History (Engineering), Florida Technological U, FL
- Evolution and Social Thought since 1800 (History), U of Illinois, IL
- The First Atomic Bomb: From Preconception to Birth (Technology/Engineering Sciences), Dartmouth College, NH
- Freshman Year of Studies (Humanities/Behavioral Science/Interdisciplinary), Villa Maria College, PA
- Historical Problems in Technical Change (Lyman Briggs College), Michigan State U, MI
- History and Philosophy of Science (Science), Bristol Community College, MA
- History and Philosophy of Scientific Thought (Philosophy), Colorado State U, CO
- History of American Architecture (History), Southern Technical Institute, GA
- History of American Technology (History), Southern Technical Institute, GA
- History of Biological Ideas (History/Health Science), U of Delaware, DE
- History of Biology (BioScience), U of Southern California, CA
- History of Geologic Thought (Geology/Earth Sciences), State U of New York at Plattsburgh, NY
- History of Modern Mathematics (Technology Studies Program), Massachusetts Institute of Technology, MA
- A History of Modern Science (History), North Texas State U, TX
- History of 19th-Century Science (Technology Studies Program), Massachusetts Institute of Technology, MA
- History of Science (History/Physics), California State U, Long Beach, CA
- History of Science (Physics), Hanover College, IN
- History of Science (Geoscience), Jersey City College, NJ
- History of Science (4902-0104), Montclair State College, NJ
- History of Science and Technology (History), Bronx Community College, NY
- The History of Science and Technology (History), The Citadel, SC
- History of Science and Technology (History), Trinity Christian College, IL
- History of Science: Selected Topics (Physics), California State U, Long Beach, CA
- History of Science: Three Quarter Sequence (History), Montana State U, MT
- History of Social Thought (Sociology), Northern Illinois U, IL
- History of Technology (Technology Studies Program), Massachusetts Institute of Technology, MA
- History of Technology (History), Northern Montana College, MT
- History of Technology (History Studies/General Science), Oregon State U, OR
- History of Technology (General Engineering/History), South Dakota State U, SD
- History of the Life Sciences (History), Purdue U, IN
- History of Transportation (History), Northern Montana College, MT
- History of Transportation in the United States since 1790 (History), U of Wisconsin, Milwaukee, WI
- History of Western Civilization (History), Southwestern Union College, TX
- History, Technology and Society (History), Western Carolina U, NC
- Introduction to the History of Science (History), U of Connecticut, CT
- Man and Machines (Engineering), Florida Technological U, FL
- Materials and Civilization (Materials Engineering), U of Michigan, MI
- Materials, Technology, and Society (Natural Sciences), U of Illinois at Chicago Circle, IL

- Philosophical Problems in the History of Science (Philosophy), U of Tulsa, OK  
 Physics, History, and Society (Physics or History), Iowa State U, IA  
 Physics, Ideas and History, U of the Pacific, CA  
 Science and Civilization (University Studies), North Carolina State U, NC  
 Science and Culture (Science), Wheaton College, IL  
 Science and Culture in the Modern World (Humanities), Harvey Mudd College, CA  
 Science and Ideology (Philosophy), U of Wisconsin, Green Bay, WI  
 Science and Religion in the Western World (History), U of Connecticut, CT  
 Science and Society (Physics/History), Santa Barbara City College, CA  
 Science and Society (Humanities/Physical and Ocean Sciences), U.S. Coast Guard Academy, CT  
 Science and Technology, Anthony O. Smulders, Loyola Marymount U, CA  
 Science and Technology in Western Civilization I (History), Purdue U, IN  
 Science and Technology in Western Civilization (History), Purdue U, Calumet Campus, IN  
 Science as a Cultural Force (Chemistry), Ashtand College, OH  
 Science from the Renaissance through the Enlightenment (21.77), Massachusetts Institute of Technology, MA  
 Science in History (Engineering), Florida Technological U, FL  
 Science in Modern History (History), Colorado State U, CO  
 Science, Technology, and Warfare (History), U.S.-Air Force Academy, CO  
 Scientific Thought I (Philosophy/History), U of Illinois at Urbana-Champaign, IL  
 Scientific Thought II (Philosophy/History), U of Illinois at Urbana-Champaign, IL  
 Seminar in the History of Contemporary Science: American Science since the 1930's (Technology Studies Program), Massachusetts Institute of Technology, MA  
 Social History of Engineering (Mechanical and Aerospace Engineering), U of Missouri, Columbia, MO  
 Social History of Technology from the Civil War to the Present (History), U of Wisconsin, Milwaukee, WI  
 Sociology of Industry and Technology (Technology), California State U, Hayward, CA  
 Technology and America (History), Morehead State U, KY  
 Technology and Culture (Anthropology), U of California, Santa Barbara, CA  
 Technology and History: China and the West (Technology Studies Program), Massachusetts Institute of Technology, MA  
 Technology and Modern Industrial Society (Values, Technology, Society), Stanford U, CA  
 Technology and Social Change (Engineering), San Jose State U, CA  
 Technology and Social Change: Undergraduate Studies in Modern European History (History), U of Southern California, CA  
 Technology and Western Culture (History), U of Kentucky, KY  
 Technology in America: Inventors, Engineers, and Entrepreneurs (History/Sociology of Science), U of Pennsylvania, PA  
 Technology in American Life (History), U of Illinois at Urbana-Champaign, IL  
 Technology in History (History), Amherst College, MA  
 Technology in Society: Historical Perspectives (Values, Technology, Society), Stanford U, CA  
 Technology, Society, and the Human Condition (Mechanical and Aerospace Engineering), Cornell U, NY  
 Technology's Impact on the Modern West: 1750-1950 (Humanistics Social Studies), U of Washington, WA  
 Topics in History of Technology (History), U of Illinois at Chicago Circle, IL  
 Topics in Technological Development (Engineering), Florida Technological U, FL  
 Topics in the History of Science and Technology (History), Southwestern Louisiana U, LA  
 Twentieth Century Technology and Society (History), U of Missouri, Rolla, MO  
 The Work of the Scientist, and Its Sources (Technology Studies Program), Massachusetts Institute of Technology, MA

#### Philosophy of Science/Technology

- Concepts of Science (Science), Saint Francis College, IN  
 The Copernican Revolution (NEXA), San Francisco State U, CA  
 Foundations of Science (Philosophy), Mount Marcy College, SD  
 History and Philosophy of Science (Physical Science/Biological Sciences), Arkansas Technical U, AR  
 History of Science (Physical Science), College of St. Scholastica, MN  
 Ideas and Technology in Western Culture (Values, Technology, Society), Stanford U, CA  
 Limits of Science (Geology), Middlebury College, VT  
 The Literature of Science (Humanities), U of Michigan, MI  
 Man the Inquirer (College of Science and Society), Wesleyan U, CT  
 Marxism and Contemporary Technology (Philosophy), Southern Illinois U at Carbondale, IL

Models and Modelling: Representations of Reality (Values, Technology, Society), Stanford U, CA  
 The Nature and Continuity of Life (Variation A) (Natural Science), Michigan State U, MI  
 The Nature of Science I and II (Interdisciplinary), Central College, IA  
 Philosophical Foundations of the Natural Sciences (Philosophy), U of Wisconsin, Green Bay, WI  
 Philosophical Problems in Psychology (Philosophy), U of Wisconsin, Green Bay, WI  
 Philosophical Problems of Social Sciences (Philosophy/Health Science), U of Delaware, DE  
 Philosophy of Science (Philosophy), Arkansas Technical U, AR  
 Philosophy of Science (Philosophy), Mount St. Mary's College, CA  
 Philosophy of Science (Philosophy), Muhlenberg College, PA  
 Philosophy of Science (Philosophy), Northwest Missouri State U, MO  
 Philosophy of Science (Philosophy), Providence College, RI  
 Philosophy of Science (Philosophy), Randolph-Macon Woman's College, VA  
 Philosophy of Science (Philosophy), Southern Benedictine College, AL  
 Philosophy of Science (Philosophy), State U of New York, College at Cortland, NY  
 Philosophy of Science (Philosophy), Texas A & M U, TX  
 Philosophy of Science (Philosophy), U of North Carolina at Charlotte, NC  
 Philosophy of Science (Non-departmental Course 316), U of the South, TN  
 Philosophy of Science (Philosophy), U of Tulsa, OK  
 Philosophy of Science (Philosophy), Washburn U, KS  
 Philosophy of Science (Philosophy), Western New England College, MA  
 Philosophy of Science and Medicine (Philosophy/Health Science), U of Delaware, DE  
 Philosophy of Social Science (Philosophy), State U of New York, College at Cortland, NY  
 The Philosophy of Social Science (Philosophy/Anthropology/Sociology), U of Illinois at Urbana-Champaign, IL  
 Philosophy of Technology (Philosophy), U of Wisconsin, WI  
 Philosophy of Technology (Philosophy), Winona State U, MN  
 Philosophy, Science and the Occult (Philosophy), U of Tulsa, OK  
 Physical Science and Philosophy (Honors), Middle Tennessee State U, TN  
 Physics as Science and Metaphor (Physical Science), Brandeis U, MA  
 Proseminar in Social Inquiry (Comparative Culture), U of California, Irvine, CA  
 Quantitative Aspects of Social Phenomena (Engineering Science), George Washington U, DC  
 The Psychologist Looks at Humanistic Psychology (Psychology), U of Evansville, IN  
 Readings in Philosophy of Science (Philosophy), Kean College of New Jersey, NJ  
 Reality and Perception in Science (Non-Disciplinary Science), St. Lawrence U, NY  
 Scientific and Experimental Evidence (Law, Science and Medicine), Yale Law School, CT  
 Science and Human Values (Philosophy), Simpson College, CA  
 Scientific Philosophy of Science (Values, Technology, Society), Stanford U, CA  
 Time and Change in Nature (Natural Science), Michigan State U, MI  
 Uses and Abuses of Scientific Theories (College of Letters), Wesleyan U, CT

### Science, Technology, and Public Policy

All University Seminar on Technology and Public Policy (Aerospace Engineering), U of Colorado, CO  
 Alternative Technology and Development (Social Management of Technology), U of Washington, WA  
 Appropriate Technology (History and Political Science), Rensselaer Polytechnic Institute, NY  
 Biochemistry and Society (Biochemistry), U of California, Berkeley, CA  
Humanities and Public Policy Seminars, Walter J. Raymond (Social Science), Saint Paul's College, VA  
 Impact and Control of Technological Change (City and Regional Planning/Government/Economics), Cornell U, NY  
International Management Institute (IMI), Peter A. Fraile, S.J. (International Management Institute), U of Detroit, MI  
 International Science and Technology Policy (Graduate School of Public Affairs), U of Washington, WA  
 Law and a Technological Society (Law), Arizona State U, AZ  
 Law, Technology and Society (Law School), U of Wisconsin, WI  
 Legal, Ethical and Scientific Issues in Industrial Regulation (Technology Studies Program), Massachusetts Institute of Technology, MA  
 Nuclear Policy and Diplomacy (Humanities), Air Force Institute of Technology, OH  
 Peace and War in the Nuclear Age (University Studies), North Carolina State U, NC  
 Politics of Science and Technology (Political Science), Arizona State U, AZ  
 Politics of Science and Technology (Political Science), State U of New York at Buffalo, NY  
 Politics, Science, and Public Policy (Political Science), U of Toledo, OH  
Program in Policy Studies (proposal stage), Irving J. Spitzberg, Jr. (The Colleges), State U of New York at Buffalo, NY

Relation of Complex Organizations to the Extension of Scientific Knowledge and Technological Change (Technology Studies Program), Mount Holyoke College, MA  
 Relativism, Society, and New Politics (Environmental Sciences), U of Wisconsin, Green Bay, WI  
 Science and the Citizen (University Course), Auburn U, AL  
 Science and the Citizen (Biology), Jamestown Community College, NY  
 Science, Technology and Politics (Political Science), Indiana U of Pennsylvania, PA  
 Science, Technology, and Public Policy (Social Sciences), Clarkson College, NY  
 Science, Technology, and Public Policy, (Political Science), U of Wisconsin, Milwaukee, WI  
 Science, Technology and the Citizen (Natural Science/Math), Macon Junior College, GA  
 Scientists and the Politics of Technology (Science, Ethics and Public Policy), Carleton College, MN  
 Societal Systems: Planning, Policy and Complexity (Technology and Public Policy Program), Vanderbilt U, TN  
 Society and Technological Decisions (Engineering/Interdisciplinary), U of Idaho, ID  
 Socio-Economic Consequences of Technology (Humanities/Social Studies), U of Washington, WA  
Studies in Public Policy: National Defense, William J. Stover (Political Science), U of Santa Clara, CA  
 Technology and Policies Concerning Growth (Technology/Engineering Sciences), Dartmouth College, NH  
 Technology and Public Policy (Political Science), U of Texas, El Paso, TX  
 Technology and the Poor Countries (Political Science), U of California, San Diego, CA  
 Technology as a Social and Political Phenomenon (Social Management Technology), U of Washington WA  
 Technology, Politics and American Society (Political Science), U of Wisconsin, Milwaukee, WI  
 Theories of Technological Society and Politics (Technology Studies Program), Massachusetts Institute of Technology, MA  
 Topics in Technology and Public Policy: Technology and Public Policy in the Courts (Political Science), U of Wisconsin, Milwaukee, WI  
 Topics of Current Significance in Science and Public Policy (Chemistry/Political Science), Memphis State U, TN

#### Technology Assessment

Multi-Institutional Technology Assessment (Mechanical Engineering, Humanities, Social and Life Sciences), Rose-Hulman Institute of Technology, IN  
 Technology Assessment (Engineering), Michigan State U, MI  
 Technology Assessment (Chemistry), Northland College, WI  
 Technology Assessment (Mechanical Engineering, Humanities and Social Sciences), Rose-Hulman Institute of Technology, IN  
 Technology Assessment (Engineering), U of Kansas, KS  
 Technology Assessment: Methods and Analysis, I (Social Management Technology), U of Washington, WA  
 Technology Assessment: Methods and Analysis, II (Social Management Technology), U of Washington, WA  
 Technology Assessments (Honors), New Mexico State U, NM  
 Topics in Technology and Public Policy: Technology Assessment (Political Science), U of Wisconsin, Milwaukee, WI

#### World Futures

Analysis of World Futures Models (Institute of Technology), U of Minnesota, MN  
 Creating the Future (Social Management Technology), U of Washington, WA  
 The Future (Social Science), Central Florida Community College, FL  
 The Future (Integrated Sequence), Davis and Elkins College, WV  
 Future Studies (Political Science), Gannon College, PA  
 Philosophy and the Future of Man (Philosophy), Mercy College, NY  
 Prophets of Doom (Philosophy), U of Wisconsin, Milwaukee, WI  
 Seminar on the Future (Social Welfare-Rehabilitation), Federal City College, DC  
 The United States In 2001 (Physics), Central Methodist College, MO  
 Values and the Future (Philosophy), College of St. Scholastica, MN

## 2. ENVIRONMENTAL CONCERNS

Environment and Society

Colloquium on the Crisis in the Environment (Zoology), Oklahoma State U, OK  
 Conduct of Science and Technology (Chemistry), Eckerd College, FL  
 Contemporary Environmental Controversies I and II (Environmental Studies), Hood College, MD  
 Don't Forget: Nature Bats Last (Biology), Warren Wilson College, NC  
 Drama of Man and Nature (Biology), Westfield State College, MA  
 Environment and Man (General Studies), North Central College, IL  
 Environment and Man (Biology), Texas Eastern U, TX  
 Environment and Man (Biology), Winthrop College, SC  
 Environment and Man Field Studies (Biology/Sociology), Winthrop College, SC  
 Environment Appreciation (Botany), Weber State College, UT  
 Environment: Natural Resources, Conservation and Pollution (Environmental Studies), Santa Barbara City College, CA  
 Environmental Affairs (EA), Harry Schwarz, Clark U, MA  
 Environmental Education, Gail Haslett and Richard James (Schuylkill Valley Nature Center), Beaver College, PA  
 Environmental Issues (Biology/Geography/Humanities), George Washington U, DC  
 Environmental Issues (Biology/Economics), Spokane Falls Community College, WA  
 Environmental Problems (Biochemistry), Alvernia College, PA  
 Environmental Problems and Management (Natural Sciences), Iona College, NY  
 Environmental Program, Philip E. Ode (Environmental Studies), Thiel College, PA  
 The Environmental Spectrum (GED), Robert N. Ford (General Education), Millersville State College, PA  
 Environmental Studies (MST Program), Ty G. Minton, Antioch/New England Graduate School, NH  
 Environmental Studies, P. A. Buscemi (Interdisciplinary Environmental Institute), Eastern New Mexico U, NM  
 Environmental Studies, Carl Bruner, Kutztown State College, PA  
 Environmental Studies, Phil G. Olsen (Earth Science), Santa Barbara City College, CA  
 Environmental Studies, Ronald F. Kujanski (Science Division), Simon's Rock Early College, MA  
 Environmental Studies, Langley Wood (Environmental Studies), Sweet Briar College, VA  
 Environmental Studies, Baird Callicott/Richard Christofferson (Philosophy), U of Wisconsin, Stevens Point, WI  
 Environmental Studies (Biology), Yakima Valley Community College, WA  
 Environmental Studies I and II (Psychology), State U of New York, Geneseo, NY  
 Environmental Studies Concentration, Terrence G. Marsh (Biology), North Central College, IL  
 Environmental Studies Minor, Dale Fatzinger (Geography), U of Wisconsin, Platteville, WI  
 Environmental Studies Minor, Robert H. Claxton (Environmental Studies), West Georgia College, GA  
 Environmental Studies Program, Jack Smith (Environmental Studies), Johnson State College, VT  
 Environmental Studies Program, Sister Maura Smith, Mercyhurst College, PA  
 Environmental Studies Program, John N. Phillips (Philosophy), Saint Cloud State U, MN  
 Environmental Studies Program, Melvyn D. Yessenow (Psychology), State U College, Geneseo, NY  
 Environmental Technology, Ron Bonnstetter (Science-Math), Iowa Lakes Community College, IA  
 Geographic Analysis of Social Issues (Earth Sciences), Metropolitan State College, CO  
 Historical Architecture (Engineering), Florida Technological U, FL  
 Honors Seminar in Human Geography: Historical Background of Environmental Problems (Geography) U of Wisconsin, Milwaukee, WI  
 Honors Seminar in Sciences and Mathematics (Science), Morehead State U, KY  
 Intro Case Studies (Science, Technology, Society), Clark U, MA  
 Introduction to Environmental Studies (Environmental Education), Beaver College, PA  
 Introduction to Environmental Studies (General Education), Eastern New Mexico U, NM  
 Introduction to Environmental Technology (Institute of Technology), U of Minnesota, MN  
 Man and Environment (Biology), Central Missouri State U, MO  
 Man and Environment (Engineering), Florida Technological U, FL  
 Man and Environment (History/Political Science), Georgia College, GA  
 Man and His Environment (Natural Science), McPherson College, KS  
 Man and His Environment (Biology), California State U, Long Beach, CA  
 Man and His Environment (Biology), Clarkson College, NY

Man and His Environment (Biology), Illinois Valley Community College, IL  
 Man and His Environment (Biology), Rhode Island Junior College, RI  
 Man and His Environment (Geology), State U of New York, College at Cortland, NY  
 Man and His Physical Environment (Physics), Muscatine Community College, IA  
 Man and the Environment (Biology), The College of Charleston, SC  
 Man and the Environment (Environmental Science), Holyoke Community College, MA  
 Man the the Environment (Biology), Northern State College, SD  
 Man and the Environment (Biology), U of Maine at Farmington, ME  
 Man and the Environment (Environmental Science), Villa Maria College, PA  
 Man, Environment and Pollution (Agriculture/Ecology), U of Arkansas at Pine Bluff AR  
 Man in Nature (Religious Studies), U of San Francisco, CA  
 Man's Environmental Crisis (Social Science/Biology/Natural Resources), San Joaquin Delta College, CA  
 Man's Impact on Nature (Environmental Studies), Santa Barbara City College, CA  
 Man's Perceptions of His Environment (History), Clark U, MA  
 Modern Practical Science (Physical Science), Lander College, SC  
 Pollution in Japan (Values, Technology, Society), Stanford U, CA  
 The Population Problem (Economics), Amherst College, MA  
 Population Problems (Economics), Oklahoma State U, OK  
 Population, Resources and Environment (Biology), Bradley U, IL  
 Program in Environmental Studies, James J. Gilford (Biology), Hood College, MD  
 Quality of Life (CORE), Whitworth College, WA  
 Science and Non-Science: Comparative Perspectives (College of Science in Society), Wesleyan U, CT  
 Science, Society, and the Environment (Chemistry), Cardinal Stritch College, WI  
 Science and Society (Biology), State U of New York Agricultural and Technical College, NY  
 Science, Technology and Environment (STE), Myran J. Lunine (Western College), Miami U, OH  
 Science, Technology and Man (Anthropology/Biology), Westminster College, MO  
 The Surrounding World: Technology and the Environment and Related Courses (Philosophy), State U of New York at Stony Brook, NY  
 Technology and the Environment (Science and Technology), Loyola Marymount U, CA

#### Environmental Science

Air and Water Pollution (Geological Science), California State U, Long Beach, CA  
 Engineering for Nonengineers (Engineering), Villanova U, PA  
 Environmental Engineering (Civil Engineering), U of Houston, TX  
 Environmental Pollution (University), Western Illinois U, IL  
 Environmental Science (Science), Clayton Junior College, GA  
 Environmental Science, Miles D. Mackey (Ecology), College of the Redwoods, CA  
 Environmental Science (Ecology), College of the Sequoias, CA  
 Environmental Science (Life Science), Northwest Community College, WY  
 Environmental Science (Natural and Math Science), Seattle Pacific College, WA  
 Environmental Science/Politics of Environment (Biological/Political Science), Delta College, MI  
 Environmental Sciences, John V. Aliff (Political Science), Georgia College, GA  
 Environmental Sciences Major, Sr. J.P. Tilman (Environmental Science), Aquinas College, MI  
 Environmental Studies (Biology/Chemistry/Physics), Benedictine College, KS  
 Physical Approach to Environmental Science (Physics), U of Wisconsin, Stevens Point, WI  
 Physical Processes in the Atmosphere (Physics), U.S. Air Force Academy, CO

#### Ecology/Environmental Biology

Advanced Topics in Behavioral Ecology (Psychology), U of Houston, TX  
 Animal Ecology (Biology), U of Southwestern Louisiana, LA  
 Biological Aspects of the Environmental Crisis (Biology and Environment), Western Connecticut State College, CT  
 Biological Issues in Human Ecology (Zoology-Entomology), Auburn U, AL  
 Biology Seminar in Environmental Problems (Biology), Middle Tennessee State U, TN  
 Biosphere and Biosurvival (Life Science), San Diego City College, CA  
 Contemporary Problems in Ecology (Biology), Tennessee State U, TN  
 Current Topics in Social Biology (Biology), Community College of the Finger Lakes, NY  
 Ecology and Man (Biology), Northern Michigan U, MI

Ecology, Technology and Society (Social Science and Mechanical Engineering), U of Minnesota, MN  
 Environmental Biology (Biology), Cardinal Stritch College, WI  
 Environmental Biology (Biology), North Central College, IL  
 Environmental Biology (Life Sciences), San Diego City College, CA  
 Environmental Biology (Biology), Spokane Falls Community College, WA  
 Environmental Biology (Biological Science), Waubesa Community College, IL  
 Environmental Field Studies (Environmental Studies and Biology), Santa Barbara City College, CA  
 Environmental Microbiology (BioSciences), U of Southern California, CA  
 Environmental Studies (Biology), St. Francis College, PA  
 Environmental Toxicology (Biology), California State U, Long Beach, CA  
 Fundamentals of Ecology (including Laboratory) (Renewable Natural Resources), Texas A & M U, TX  
 Human Ecology (Environmental Education), Beaver College, PA  
 Human Ecology (Biology), California Polytechnic State U, CA  
 Human Ecology (Biology), California State U, Fresno, CA  
 Human Ecology (Sociology), Indiana U at Fort Wayne, IN  
 Human Ecology (Biology), Suffolk County Community College, NY  
 Human Ecology (Biology), U of Missouri, Kansas City, MO  
 Human Ecology (Biology), Wells College, NY  
 Human Ecology Dimension (HED), Patricia Packard (Extrdepartmental), College of Idaho, ID  
 Human Ecology: Man's Place in Nature (Biology), California State U, Northridge, CA  
 The Human Environment (Biology), Essex Community College, MD  
 Introduction to Ecology (Natural Sciences), Shelby State Community College, TN  
 Issues in Human Ecology (Biology and Sociology), Concordia College, NY  
 Life, Its Environment (Natural Science), Michigan State U, MI  
 Man and Biological Environment (Biology), California State U, Los Angeles, CA  
 Marine Microbiology (Microbiology), U of Southwestern Louisiana, LA  
 Metaphor, Environment, and Society (Technology and Society), University of the Pacific, CA  
 Microbes and Man (Microbiology), U of Southwestern Louisiana, LA  
 Plant Ecology (Biology), U of Southwestern Louisiana, LA  
 Principios de la Ciencia and Ecologia Humana (Science), U of the Pacific, CA  
 Quantitative Ecology (Biology), U of Southwestern Louisiana, LA  
 Special Topics in Environmental Biology (Biology), Clarkson College, NY  
 Topics in Biology (Biology), Middle Tennessee State U, TN  
 Topics in Suburban Ecology (College of Science in Society), Wesleyan U, CT  
 Wilderness, Ecology, and the History of American Conservation (History), Bard College, NY

#### Environmental Chemistry

Chemistry and Man's Environment (Chemistry), Mount Mary College, WI  
 Chemistry and the Environment (Chemistry and Natural Science), Bard College, NY  
 Chemistry with Global Perspectives (Chemistry), Bates College, ME  
 Environmental Chemistry (Chemistry), Pomona College, CA  
 Environmental Chemistry, Lecture and Lab (Chemistry), Fairleigh Dickinson U, NJ  
 Herbicide Science (Agronomy Crop Science), Oregon State U, OR

#### Geosciences and the Environment

The Air Environment (Environmental Studies), Santa Barbara City College, CA  
 Coastal Zone Management Seminar (STS), Clark U, MA  
 Coastal Zone - Problems and Solutions (Geoscience), Jersey City State College, NJ  
 Cultural Geography (Geography), Colgate U, NY  
 Earth and Atmospheric Sciences (Environmental Education), Beaver College, PA  
 The Earth and Man, (Geography/Geology), Christopher Newport College, VA  
 Environment and Land Use (SL), Wayne State U Law School, MI  
 Environmental Geography (Geology), U of Illinois at Chicago Circle, IL  
 Environmental Geology (Geology), California State U, Los Angeles, CA  
 Environmental Geology (Geology), U of North Carolina, NC  
 Environmental Geology (Geology), U of Wisconsin, Oshkosh, WI  
 The Future of the Oceans (Oceanography/Political Science), U of California, San Diego, CA  
 Geography of Natural Hazards (Geography), Southern Illinois U at Carbondale, IL  
 Geological Planning and the Quality of Man's Environment (Geology), U of South Alabama, AL  
 Geology and Human Affairs (Geology), U of Toledo, OH  
 Geology and Man (Geosciences), Monroe Community College, NY

Geology and Man (Earth Sciences), Tulane U, LA  
 Introduction to Behavioral Geography (Geography), U of Illinois at Chicago Circle, IL  
 Introduction to Cultural Geography (Geography), U of Illinois at Chicago Circle, IL  
 Introduction to Environmental Geology (Geology), U of Illinois at Chicago Circle, IL  
 Man's Impact on the Natural Landscape: Geographical and Historical Perspectives (Geography),  
 U of Wisconsin, Milwaukee, WI  
 Maritime Geography and Geography of the Oceans (Geography), Christopher Newport College, VA  
 The Oceans and Man (Natural Science), Eckerd College, FL  
 Oceans: Our Continuing Frontier (Oceanography and Humanities), U of California, San Diego, CA  
 Our Hazardous Environment (Geography), U of Wisconsin, WI  
 Principles of Land Use (Geography), Metropolitan State College, CO  
 Problems in Environmental Geology (Earth Science), California State U, Hayward, CA  
 Seminar in the Dynamics of Climate and Society (STS), Clark U, MA  
 Soils and Land Use (Soil Science), Oregon State U, OR  
 Soils and Men (Soil Science), Oregon State U, OR  
 Topics in Geology--"Politics, Minerals and Survival" (Geology), U of Minnesota, Duluth, MN

### Natural Resources Management

Conservation of Natural Resources (Natural Science), Blue Ridge Community College, VA  
 Conservation of Natural Resources (Biology), U of Southwestern Louisiana, LA  
 Conservation of Natural Resources (Geography), U of Wisconsin, Platteville, WI  
 Conservation of Natural Resources (Plant and Earth Science), U of Wisconsin, River Falls, WI  
 Decision-Making and Resource Management (Geography), U of Illinois at Chicago Circle, IL  
 Ecology and Conservation of Renewable Natural Resources (Range and Wildlife Management), Texas  
 Tech U, TX  
 Economics of Resource Management (Economics), Georgia College, GA  
 Environmental Conservation (General Science), Shepherd College, WV  
 Environmental Conservation (Geography), U of Wisconsin, Madison, WI  
 Environmental Management (Land Arch), U of Wisconsin, Madison, WI  
 Environmental Management: Concepts, Issues and Processes (Civil Engineering), Massachusetts  
 Institute of Technology, MA  
 Minerals, Non-Renewable Earth Resources, and Man (Values, Technology, Society), Stanford, U, CA  
 Natural Resources Energy (Environmental Studies), Santa Barbara City College, CA  
 Natural Resources Planning (Geography), Southern Illinois U at Carbondale, IL  
 Natural Resources Policy (Agricultural and Resource Economics), Oregon State U, OR  
 Natural Resources Politics (Political Science), U of Houston, TX  
 Optimization Applied to Environmental Management (Engineering Sciences), Dartmouth College, NH  
 Policy Development and Administration: Natural Resources (Graduate School of Public Affairs),  
 U of Washington, WA  
 Principles of Wildlife Conservation (Fisheries and Wildlife), Oregon State U, OR  
 Resource Management and Conservation (Geography), Villanova U, PA  
 Resources and Man (Geological Science), California State U, Long Beach, CA  
 Resources and Man: Conservation (Geography), State U of New York at Oswego, NY  
 Resources of Earth (Raymond College), U of the Pacific, CA  
 Science and the Human Environment (Natural Science), U of Scranton, PA  
 A Search for the Recognizable Goals and Constraints of the Steady State Earth (Introductory),  
 U of Minnesota, MN  
 Technology and Environmental Conservation (Technology/Engineering Sciences), Dartmouth College,  
 NH  
 Technology and Human Needs (Engineering Science), George Washington U, DC  
 Technology, Resources and Welfare (Economics) Brandeis U, MA  
 Wildlands Conservation Ecology (Wildlands Biology) Chaffey College, CA  
 Wildlife Management of Furbearers and Waterfowl (Biology), U of Southwestern Louisiana, LA  
 Wildlife Management of Upland Game (Biology), U of Southwestern Louisiana, LA  
 Workshop in Environmental Management (Special Themes), Brown U, RI  
 World Resources (Geography), Metropolitan State College, CO

### Energy

Alternative Energy Sources (Natural Science), Bard College, NY  
 Alternative Energy Systems Laboratory (STS), Clark U, MA  
 Energy (Physics), Amherst College, MA  
 Energy and Environment (Physics), George Mason U, VA

Energy and Environment (Physics), Western Illinois U, IL  
 Energy and Humanity (Physics), U of South Florida, FL  
 Energy and Man (Physics), Central College, IA  
 Energy and Man (Engineering), Florida Technological U, FL  
 Energy and Society (STS), Clark U, MA  
 Energy and Society (Physics), U of Arkansas, AR  
 Energy and the Environment (University Course), U of Oklahoma, OK  
 Energy Crisis (Physics), U of Arkansas at Little Rock, AR  
 Energy: Demands, Resources, Impact, Technology and Policy (Science, Technology and Public Affairs)  
 U of California, San Diego, CA  
 Energy, Environment, Economics: American Dilemma (Interdisciplinary), U of Scranton, PA  
 Energy: From Nature to Man (Values, Technology, Society), Stanford U, CA  
 Energy, Molecules, and Life: A Humanistic Approach to Chemistry (Chemistry), The Catholic U  
 of America, DC  
 Energy: Non-Nuclear Energy Technologies (Science, Technology and Public Affairs), U of Califor-  
 nia, San Diego, CA  
 Energy: Nuclear Energy Technologies (Science, Technology and Public Affairs), U of California,  
 San Diego, CA  
 Energy, Power, and Society (Natural Science and Technology), U of Minnesota, MN  
 Energy, Society and the Environment (Mechanical Engineering), U of California, CA  
 Energy, Technology and Man (Physics), Earlham College, IN  
 Energy, Technology and Man (College of Arts and Sciences), Eastern Kentucky U, KY  
 History of Nuclear Engineering: A Case Study in the Interaction Between Technology and Society  
 (Technology Studies Program), Massachusetts Institute of Technology, MA  
 Law and Energy (Law), Arizona State U, AR  
 The Nature of Energy (Physics), Contra Costa College, CA  
 Nuclear Energy (General Studies), Rhode Island College, RI  
 Physics and the Environment (Physics), Indiana U of Pennsylvania, PA  
 Seminar: Energy Resources and Policy (Technology and Public Policy Program), Vanderbilt U, TN  
 Seminar in Alternative Technology (Technology Studies Program), Massachusetts Institute of  
 Technology, MA  
 Seminar on Nuclear Power (STS, Geography and Government), Clark U, MA

#### Agriculture, Food, and Society

Agricultural Pollution Control (Agricultural Engineering), Oregon State U, OR  
 Agriculture and Man (General Agriculture), Oregon State U, OR  
 Agriculture and the Environment (Biology), Wells College, NY  
 Economics of Environmental Quality as Related to Agriculture (Agricultural Economics), Texas  
 A & M U, TX  
 Food and Man (Food Science and Technology), Oregon State U, OR  
 Food and Man (Biochemistry and Biophysics), Texas A & M U, TX  
 Food in Contemporary Society (Food Science), U of Tennessee, Knoxville, TN  
 Geographical Aspects of Environmental Quality (Geography), U of Maryland, MD  
 Man and Food (Multidiscipline subject), West Virginia U, WV  
 Nutrition and World Food Problems (Home Economics and Consumer Studies), Brooklyn College, NY  
 Nutritional Biochemistry (BioScience), U of Southern California, CA  
 Psychosocial Aspects of Foods and Nutrition (Home Economics), Central Michigan U, MI  
 World Food Crisis (Philosophy), Marymount Manhattan College, NY  
 World Population and Food Prospects (University Studies), North Carolina State U, NC

#### Urban Studies

The American City: An Ecology (Raymond College), U of the Pacific, CA  
 Community Systems (Engineering Sciences), Dartmouth College, NH  
 Cultural Dimensions of Urban Design (Anthropology), U of Wisconsin, Milwaukee, WI  
 Ecology of the Urban Environment (Biology), California State U, Los Angeles, CA  
 Growth and Structure of Urban Environments (Technology Studies Program), Massachusetts Institute  
 of Technology, MA  
 Perspectives in American Urban Technology (History), U of Wisconsin, Milwaukee, WI  
 Planning Process Seminar (Urban Affairs), Hunter College of City U of New York, NY  
 Seminar in Technology and the City (Urban Studies), U of Alabama in Birmingham, AL  
 Topics in Urban Development (Engineering), Florida Technological U, FL

The Urban Crisis (University Studies), North Carolina State U., NC  
 Urban Spatial Relations (Geography), U of Houston, TX  
 Utopias and New Communities (History), California State College-Dominguez Hills, CA

### Environmental Policymaking.

Advanced System Dynamics Seminar (Engineering), Dartmouth College, NH  
 Air Pollution Control (Chemical Engineering), Brigham Young U., UT  
 Alternative Structures and Comparative Models (Engineering), Dartmouth College, NH  
 Approaches to Environmental Policy (Environmental Studies), Sweet Briar College, VA  
 Architecture, Planning and Human Values (Raymond College), U of the Pacific, CA  
 Community and Regional Planning, Hans Bleiker (Geography), U of Wyoming, WY  
 Consumerism in Theory and Action (Home Economics and Consumer Studies), Brooklyn College, NY  
 Consumer Science (Physics), Middlesex County College, NJ  
 Contemporary American Political Thought (Political Science), Muhlenberg College, PA  
 Cost-Benefit Analysis and Economic Methodology (Economics), U of Washington, WA  
 Ecologic Dimensions of Environmental Impact Assessment (Wildlife Ecology), U of Wisconsin, WI  
 Economics of Technology (Economics), U.S. Naval Academy, MD  
 Energy and Public Policy (Politics and Public Policy; Electrical Engineering), Northeastern U., MA  
 Energy Technology and Public Policy (Social Management of Technology), U of Washington, WA  
 Engineering for New Priorities (Institute of Technology), U of Minnesota, MN  
 Environmental Decision Making (Institute for Environmental Studies), U of Wisconsin, Madison, WI  
 Environmental Law (Law), U of Houston, TX  
 Environmental Law Clinic (Law), U of Houston, TX  
 Environmental Law: Land Use and the Siting of Facilities (Engineering), Massachusetts Institute of Technology, MA  
 Environmental Law: Pollution Control (Civil Engineering), Massachusetts Institute of Technology, MA  
 Environmental Plans and Programs (Environmental Affairs), Clark U., MA  
 Environmental Policy (Political Science), State U of New York at Buffalo, NY  
 Environmental Protection (Environmental Affairs), Clark U., MA  
 Field Work in Energy Planning (College of Science in Society), Wesleyan U., CT  
 Foundations for Safety in the Modern Society (Education), New York U., NY  
 Government, Politics and the Environment (Political Science), Indiana State U., IN  
 International Control of the Environment (Government/Environmental Studies), Sweet Briar College, VA  
 International Environmental Decisions and Actions (Senior University Seminars Program), U of Wisconsin, Green Bay, WI  
 International Relations in an Age of the Global Environment (Political Science), Muhlenberg College, PA  
 Land Use, Dixon Smith (Geography), Metropolitan State College, CO  
 Land Use and Planning, J.E. Bugh and J.L. Fauth (Geology), State U College at Cortland, NY  
 Legal Aspects of Pollution Control (Chemistry), Fairleigh Dickinson U., NJ  
 Limits to Growth (Biology), South Dakota State U., SD  
 Modeling Consumer Choices (Engineering), Dartmouth College, NH  
 Planning as Applied Science: A System's Approach (College of Science in Society), Wesleyan U., CT  
 Planning Sociotechnical Systems (Civil Engineering), Massachusetts Institute of Technology, MA  
 Planning Theory II; Responsive and Responsible Decision Making by Public Agencies (Geography), U of Wyoming, WY  
 Political and Economic Environmental Studies (Environmental Studies/Economics), Santa Barbara City College, CA  
 Pragmatic Naturalism and American Social Policy (Philosophy), George Washington U., DC  
 Principles of Systems Dynamics (Engineering Sciences), Dartmouth College, NH  
 Public Interest Environmental Law (Law), Wayne State U Law School, MI  
 The Public Issues of Nuclear Power (Institute of Technology), U of Minnesota, MN  
 Seminar on Socio-Technical Models (Engineering), Dartmouth College, NH  
 Social Impact Assessment of Engineering Systems (Civil Engineering), Massachusetts Institute of Technology, MA  
 The Technological Society and the Limits to Growth (Integrated Studies), Pacific Lutheran U., WA  
 Technology Planning I, II (Public Affairs), U of Minnesota, MN  
 Values, Planning, and the Environment (Environmental Studies), Antioch/New England Graduate School, NH

## 3. HEALTH CARE

Health Care

- Center for Humanities and Medicine, Walter J. Freidlander, M.D., U of Nebraska Medical Center, NE
- Culture and Therapy (Technology Studies Program), Massachusetts Institute of Technology, MA
- Drugs in our Society (Biological Sciences), U of Illinois at Chicago Circle, IL
- Emphasis in Health Planning, Donald A. Sweeney (Urban and Regional Planning), Texas A & M U, TX
- Engineering in Health Care (Engineering), California State U, Sacramento, CA
- Ethical Decision Making in Pediatrics and Surgery, Daniel Candee (Pediatrics), State U of New York, Downstate Medical School, NY
- Family Studies, Wilson Yates/Clyde Steckel, United Theological Seminary, MN
- Georgetown University Family Center, Murray Bowen, M.D., Georgetown U Medical Center, DC
- Global Community Health (Family and Community Medicine), U of Arizona, AZ
- Government Health Services-Trends-Law (Medical Record Administration), Saint Louis U, MO
- Graduate Program in Health Care Administration, James O. Hepner, Washington U, MO
- Health and the Law (Dynamics of Law Applied to Health) (Allied Health), Essex Community College, MD
- Human Behavior and Development (Medicine), U of Arizona, AZ
- Human Values and Medical Ethics, Charles B. Moore, M.D. (Medicine), Tulane U, LA
- Introduction of Medical Anthropology (Anthropology/Health Science), U of Delaware, DE
- Introduction to Medicine (Medical Sciences Teaching Labs), U of North Carolina Medical School, NC
- Introduction to Patient Care I (College of Medicine), Howard U, DC
- Legal and Social Forces in Nursing (Nursing), U of Wisconsin, Madison, WI
- Legal Aspects of Medicine (Law and Medicine), U of Maryland School of Medicine, MD
- Literary Perspectives for Health Science Students (English), Creighton U, NE
- Medical Anthropology: The Culture of Health and Illness (Anthropology), U of Illinois at Urbana-Champaign, IL
- Medicalization of Life and Death: An Anthropological Perspective (Anthropology), Michigan State U, MI
- Medical Sociology (Social Sciences), Alfred U, NY
- Medical Sociology (Sociology), Bradley U, IL
- Medical Sociology (Sociology), California State U, Fresno, CA
- Nursing (Nursing), San Antonio College, TX
- Patient Counseling, A Patrick L. Prest, Jr. (School of Allied Health Professions), Medical College of Virginia, VA
- The Physician as a Personal Counselor (School of Medicine), Medical College of Virginia, VA
- Politics and the Health Sciences (Political Science), Creighton U, NE
- Politics of Health Care Delivery (Political Science/Health Science), U of Delaware, DE
- Problems and Issues in Nursing (Nursing), Mineral Area College, MO
- Religious Issues in Medical Ethics (Religious Studies), Indiana U, IN
- Societal Concerns in Medical Care (Interdisciplinary), U of Louisville School of Medicine, KY
- Society and Health Care in American History (History of Medicine), U of Wisconsin, WI
- Society and the Health Professions (Health and Life Sciences), U of Delaware, DE
- Sociology and Mental Illness (Sociology), Bradley U, IL
- Sociology of Health Care (Sociology and Health Science), U of Delaware, DE
- Sociology of Medicine (Sociology), Rensselaer Polytechnic Institute, NY
- Survey of Health Planning: Planning and Programming Health Care Delivery Systems (Urban and Regional Planning), Texas A & M U, TX
- Teaching and Evaluating the Affective Domain, Dorothy E. Reilly (Nursing), Wayne State U, MI
- Value and Belief Systems in Social Work Practice (Social Work), U of Wisconsin, WI

History of Medicine

- Health, Medicine and America's Past (History), Creighton U, NE
- Historical and Legal Influence in Nursing (Nursing), California State U, Fresno, CA
- History and Philosophy of the Biomedical Sciences (Institute for the Medical Humanities), U of Texas Medical Branch, TX
- History of Medicine (History), U of Illinois at Urbana-Champaign, IL

History of Medicine (Allied Health Sciences), U of Texas Health Science Center at Dallas, TX  
 History of Medicine (Pathology), Wake Forest U, NC  
 History of the Use and Misuse of Psychoactive Drugs (Pharmacy and History of Science), U of Wisconsin, Madison, WI  
 Independent Readings in History of Medicine (BC), U of Texas Health Science Center at Dallas, TX  
 Medical History I & II (Center for Humanities and Medicine), U of Nebraska Medical Center, NE  
 Medicine and Magic: A History of the Health Sciences (History), Purdue U, IN  
 Social History of European Public Health (History and Health Science), U of Delaware, DE

#### Aging/Gerontology

Aging: A Study of Needs and Services (Home Economics and Consumer Studies), Brooklyn College, NY  
 Aging and Human Values (Gerontology), Virginia Commonwealth U, VA  
 The Family Life Cycle: The Older Adult (Home Economics) Central Michigan U, MI  
Gerontology, Barbara Witchel and Charles O'Donnell (Arts and Science), Iona College, NY  
 Health and Aging (Physiology and Health Science), Ball State U, IN

#### Death and Dying

Attitudes Towards Death (History), Winona State College, MN  
 Control of Life and Death (Religion), Alverno College, WI  
 Creative Ways of Handling Death and Grief (Experimental College), California State U, Fresno, CA  
 Death (Philosophy), U of Illinois at Chicago Circle, IL  
 Death and Dying (Health Science), Ball State U, IN  
 Death and Dying (Religion), Drake U, IA  
 Death and Dying (Education), Oakland U, MI  
 Death and Dying (Humanities, Philosophy, Religion), Oklahoma State U, OK  
 Death and Dying (Philosophy-Nursing), Southern Illinois U at Edwardsville, IL  
 Death and Dying (Religious Studies), St. Vincent College, PA  
 Death, Dying and Bereavement (Interdisciplinary Studies), U of Topeka, KS  
 Death: Experience, Meaning, Problems (Philosophy), Trinity College, DC  
Death Studies, Marlo M. Pardi (Applied Anthropology), Polk Community College, FL  
 Dying and Death (Philosophy), Bellevue College, NE  
 Dying in America: Social and Psychological Perspectives (Sociology/Psychology), Gustavus Adolphus College, MN  
 Introduction to Death III, Death Lab/Seminar (Anthropology), Polk Community College, FL  
 Life vs. Death: Euthanasia (Biology, Philosophy, Religious Studies, Humanities), U of Wisconsin, Stevens Point, WI  
 The Meaning of Life in Bioethical Issues (ST TT), Boston U, MA  
 Moral Issues of Life and Death (Philosophy), U of Washington, WA  
 Myth and Symbols of Death and Dying (Religion), U of Southern California, CA  
 Perspectives on Death (Psychology and Philosophy), Mercy College, NY  
 Perspectives on Death and Dying (Social Sciences), City U of New York, Queensborough Community College, NY  
 The Philosophy and Dynamics of Suicide (Philosophy), State U of New York, College at Fredonia, NY  
 Philosophy of Death and Dying (Philosophy), Bowling Green State U, OH  
 Psychological and Religious Dimensions of Death and Dying (Interdisciplinary), Iona College, NY  
 Sociology of Death and Dying (Sociology), Baldwin-Wallace College, OH  
 Sociology of Death and Dying (Sociology), West Georgia College, GA  
 Thanatology (Death and Dying), (Continuing Education-Nursing), Mohawk Valley Community College, NY  
 Thanatology (Philosophy), U of South Alabama, AL  
 Thanatology--Perspectives on Dying and Death (Philosophy), Blue Ridge Community College, VA

## 4. CONTEMPORARY MORAL AND ETHICAL PROBLEMS

- Applied Ethics (Philosophy), U of California, Berkeley, CA  
 Behavior Control and Human Values (Psychology), Lehigh U, PA  
 Being an Anthropologist: Fieldwork, Ethics and Social Issues (Anthropology), Johns Hopkins U, MD  
 Christian Ethics (Religion), Sweet Briar College, VA  
 Christian Ethics and Current Social Problems (Religious Studies), Salve Regina College, RI  
 Christianity and Social Crisis (Religion), Pacific Lutheran U, WA  
 Contemporary Ethical Issues (Philosophy), Grinnell College, IA  
 Contemporary Ethical Problems (Philosophy), College of Alameda, CA  
 Contemporary Ethical Problems (Philosophy), Loyola Marymount U, CA  
 Contemporary Moral Issues (Philosophy), U of Wisconsin, WI  
 Contemporary Moral Issues (Philosophy), Texas A & M U, TX  
 Contemporary Moral Issues (Philosophy), U of Wisconsin--Madison, WI  
 Contemporary Moral Problems I & II (Religious Studies), Fairfield U, CT  
 Contemporary Moral Problems (Religion), La Salle College, PA  
 Contemporary Moral Problems (Philosophy), Mount St. Mary's College, CA  
 Contemporary Moral Problems (Philosophy), State U of New York College at Cortland, NY  
 Contemporary Moral Problems (Philosophy), U of Texas at Austin, TX  
Contemporary Topics Courses, Samuel Schrage (Chemistry), U of Illinois at Chicago Circle, IL  
 Current Moral Problems (Philosophy), West Virginia U, WV  
 Decisions and Ethical Systems (Philosophy), Mt. St. Mary College, NY  
 Ethical Decisions (Philosophy), Mt. St. Mary College, NY  
 Ethical Problems in Contemporary Society (Philosophy), State U of New York College at Fredonia, NY  
 Ethics (Philosophy), Bowling Green State U, OH  
 Ethics (Philosophy), Georgetown College, KY  
 Ethics (Philosophy), Louisiana State U at Shreveport, LA  
 Ethics (Philosophy), Mississippi U for Women, MS  
 Ethics (Philosophy), U of New Orleans, LA  
 Ethics (Philosophy), U of Tampa, FL  
 Ethics--The Simple Life (Philosophy), Blue Ridge Community College, VA  
 Ethics in Social Research (Sociology), U of South Florida, FL  
 Externship Seminar in Law and Medicine (Law), Indiana U, IN  
 General Philosophy (Philosophy), U of Bridgeport, CT  
 Human Population Problems (Biology), Trinity College, DC  
 Introduction to Ethics (Philosophy), Alabama State U, AL  
 Introduction to Psychological Methods (Psychology), California State College, Stanislaus, CA  
 Issues and Values (General Studies), Berea College, KY  
 Law and Medicine I: Control of Research and Therapy (Law), Yale Law School, CT  
 Law and Medicine II: Informed Consent (Law), Yale Law School, CT  
 Man and Society: Contemporary Moral Issues (Humanities), Clarkson College of Technology, NY  
 Medical-Ethical Problems in Christian Perspective (Religious Studies), Spalding College, KY  
 Medical Ethics (Theology), Creighton U, NE  
 Medical Ethics and the Humanities (Center for Humanities and Medicine), U of Nebraska Medical Center, NE  
 Moral and Political Dilemmas in Science and Medicine (Biology/Philosophy), Mercy College, NY  
 Moral Choices in Contemporary Society (Philosophy), Louisiana State U at Shreveport, LA  
 Moral Choices in Contemporary Society (University College), U of Maryland, MD  
 Moral Choices in Contemporary Society (Sociology), Louisiana State U, LA  
 Moral Choices in Contemporary Society (Humanities or Philosophy), U of California, San Diego, CA  
 Moral Choices in Contemporary Society (Humanities or Philosophy), U of California, San Diego, CA  
 Moral Problems (Philosophy), Iona College, NY  
 Moral Problems in the Social Sciences (Philosophy), U of Oklahoma, OK  
 Moral Questions in a Changing Society (Philosophy and Religious Studies), California State College, Bakersfield, CA  
 The Morality of Killing (Philosophy), U of Tampa, FL  
 Perspectives on Values (Philosophy), Iona College, NY  
 Philosophy and Public Affairs (Philosophy), Old Dominion U, VA  
 Physical Therapy Organization and Management (Physical Therapy), Wayne State U, MI  
 Problems in Social Ethics (Philosophy), U of New Orleans, LA  
 Riddle of Life: Three Views (Biology, Philosophy, Religious Studies), St. Joseph College, NY  
 Science Seminar (Natural Science), Bethel College, IN  
 Selected Questions in Moral Theology I (Religious Studies), Villanova U, PA  
 Seminar: Christianity and Current Social Issues (Christian Ethics), Texas Christian U, TX

Seminar: Current Ethical Issues (Christian Ethics), Texas Christian U, TX  
 Seminar in Ethics (Philosophy), U of Washington, WA  
 Senior Seminar I and II (Lyman Briggs College), Michigan State U, MI  
 Social Ethics (Philosophy), Morehead State U, KY  
 Social Ethics (Philosophy), U of Hawaii at Hilo, HI  
 Social Ethics (Philosophy), Wheaton College, IL  
 Social Ethics (Religion), Muhlenberg College, PA  
 Social Ethics (Religious Studies), U of the Pacific, CA  
 Social Ethics and Behavior Modification (Philosophy), U of Oklahoma, OK  
 Society and Morals (Philosophy), U of New Hampshire, NH  
 Sociology of Human Values (Sociology), Marquette U, WI  
 Topics in Ethics and Value Theory (Philosophy), U of Illinois at Chicago Circle, IL  
University Program Review of Research with Human Subjects, William Waugh (Medicine), East  
 Carolina U, NC  
 Value of Human Life and Current Ethical Problems (Theology), Duquesne U, PA  
 Value Theory (Philosophy), Baylor U, TX  
 Values and Human Existence (Philosophy), Mount St. Mary's College, CA

APPENDIX

SURVEY QUESTIONNAIRE

APPENDIX  
SURVEY QUESTIONNAIRE

*American Association  
for the Advancement of Science*

1776 MASSACHUSETTS AVENUE, NW, WASHINGTON, D. C., 20036

Phone: 467-4400 (Area Code 202)

Cable Address: Advancesci, Washington, D. C.

January 1977

Dear Colleague:

Happy New Year! This letter is both an announcement and a request.

It announces a AAAS survey of college level programs and courses in the field of ethical and value implications of science and technology (EVIST). And it requests some of your time to complete the questionnaire on the next two pages. Your responses will help us compile a revised directory of who's doing what in the area of EVIST.

We in the AAAS Office of Science Education are conducting this nationwide survey of both academic and nonacademic institutions. Your help will enable us to update and expand upon the listing of nearly 200 courses and programs compiled a year ago by the staff of the Cornell University Program on Science, Technology, and Society. A copy of the Cornell listing is enclosed.

We plan to publish the results of our survey in the form of a resource directory in the fall of 1977. It will outline the habitat, ecology, and distinguishing features of each of the programs and courses with EVIST dimensions. To make the AAAS directory more useful the variety of information will be indexed in several new ways. In particular, there will be cross-indexing via a manageable list of key words to enable users to locate programs and courses by specific content areas or approaches to EVIST.

Note that questions 1-16 pertain to programs oriented to the ethical and value implications of science and technology (an example of an EVIST program may be found on page 59 of the enclosed Cornell listing). Questions 17-34 pertain to courses with an EVIST orientation. Courses may or may not be part of a formal EVIST program.

Our survey has two prime goals--to provide access to information about the increasing numbers of educational and research projects in the EVIST field; and to facilitate greater communication among persons involved in current programs and those who wish to develop new programs or courses.

The AAAS has long been concerned with ethical and value implications of science and technology through its publications, various symposia at the AAAS Annual Meeting, and some of its studies. The AAAS Committee on Scientific Freedom and Responsibility has specific subcommittees concerned with the ethical and legal limits of scientific freedom and with the professional and social responsibilities of scientists. In the AAAS Office of Science Education we have for the past six years been conducting a very popular program for faculty development in science--the NSF Chautauqua-Type Short Courses for College Teachers. A number of these short courses have been in the realm of ethics, values, and science. The survey of programs and courses with EVIST orientation is part of our continuing interest in the improvement of post-secondary science education.

We are looking forward to your response. A return envelope is enclosed. We would be especially grateful to receive your reply before 15 March 1977. Our time schedule is a bit tight.

Should you have a strong interest in the field of EVIST and a desire to be on our mailing list, although you have no program or courses in the area of EVIST, simply complete the last item on the back page.

Thank you.

Cordially yours,

*Joseph M. Dasbach*

Joseph M. Dasbach  
Program Associate  
AAAS Office of Science Education

SOME POINTERS:

1. If your institution or program offers several courses with an EVIST orientation, please make an additional copy of the page 3 questionnaire for each such course.
2. If you need more space for a response or wish to make comments, please use the back page or an additional sheet. Please indicate the relevant question number.
3. For questions which do not apply, please write N.A.
4. Please send your response to AAAS, Office of Science Education, 1776 Massachusetts Avenue, N.W., Washington, D.C. 20036, in the enclosed return envelope.





Please use this page for additional comments or for continuation of your responses to questions on pages 2 and 3.  
Thank you.

Have no programs or courses with an EVIST orientation. However, have a strong interest in the field. Please put me on your mailing list.

NAME AND ADDRESS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_