



JAN 9 2007

OFFICE OF ACADEMIC AFFAIRS

January 8, 2007

Council on Academic Affairs
W. Randy Smith, Vice Provost
Office of Academic Affairs
203 Bricker Hall, 190 N. Oval Mall

Dear members of the Council on Academic Affairs:

In May 2006, the Colleges of Arts and Sciences submitted the attached proposal to create a new interdisciplinary undergraduate minor in *Societal Perspectives in Science and Technology*. It is a minor that investigates the ways science and technology interact with other aspects of society and culture. The courses in the minor explore the production of scientific and technical knowledge in varied historical and cultural contexts; the role of science, technology, and medicine in shaping modern societies; and the social, political, and ethical implications of new sciences and technologies. Completion of the minor does not imply competency in science or technological disciplines.

The enclosed packet of materials includes communications with the College of Engineering regarding the College's concerns about the minor, the minor sheet, program proposal, concurrences, and sample syllabi. Please note that the categories for the electives on the minor sheet were a result of a request from the Subcommittee in order to make advising of the minor more cohesive. The minor has undergone two name changes in response to concerns from the College of Engineering.

The minor was vetted by the Arts and Sciences Committee on Curriculum and Instruction (CCI) Subcommittee A in May, 2006. It was unanimously approved by the Arts and Sciences Committee on Curriculum and Instruction (CCI) at the December 1, 2006 meeting. The CCI respectfully recommends that the Council on Academic Affairs approves this minor.

The contact for this program is Linda Schoen, Assistant Executive Dean, Office of Interdisciplinary. She can be reached at schoen.16@osu.edu.

Additional information, including the original version of the proposal, can be found on our website, at <http://artsandsciences.osu.edu/currofc/tracking.cfm?TrackingID=460>. Please let me know if you have any questions.

Sincerely,

Jessica Mercerhill
Director

CC: Linda Schoen

Enc: Communications with the College of Engineering
Societal Perspectives in Science and Technology Minor sheet
Proposal to create a minor in Societal Perspectives in Science and Technology
Concurrences
Sample Syllabi



**Response to Engineering's College Curriculum Committee on Academic Affairs
Comments on "A Proposal for an Interdisciplinary Minor in Science and
Technology in Society"**

Dear Committee Members,

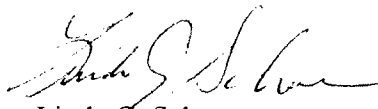
Thank you for your second review of our proposed minor "Science and Technology in Society" and comments which I received on May 30, 2006. We have revised the minor in light of the expressed concerns and hope that these revisions will resolve your concerns. The revised proposal addresses the concerns noted below.

1. The title of the minor has been renamed to "Societal Perspectives in Science and Technology" to more effectively convey that it is the interaction between society and science/technology that is the prime focus of study. An additional statement has been added to the proposal (revisions are in red) to inform students that "Completion of the minor does not imply competency in science or technological disciplines." This statement will appear on the Arts and Sciences minor sheet as well.
2. The minor has been developed with more breadth than some disciplinary minors in order to provide a structure that allows for multiple outcomes dependent on students' academic backgrounds and interests. Sample goals and curricula have been included in the proposal to clarify possible learning goals and curricula dependent on student interest. Interdisciplinarity allows for students to be exposed to multiple methods and measures for scholarly examination of a topic.
3. The information about the minor from the University of Minnesota that was included in the proposal can be found at:
<http://groups.physics.umn.edu/hsci/academics/undergrad.html> and
<http://onestop2.umn.edu/programCatalog/viewCatalogProgram.do?programID=603&strm=1059>. Their undergraduate minor complements a graduate program in History of Science and Technology, which will merge with the History of Medicine graduate program in Autumn 2007 to form a new graduate program in History of Science, Technology, and Medicine.
4. In your comments there was a statement that no one was invited from the College of Engineering to participate subsequent to the first review. I have attached email correspondence to indicate that I contacted all faculty who were identified as having possible interest in this endeavor. Within a several month time period, only responses were received from the School of Architecture. We would be

happy to receive further submissions of coursework in the future. Also, we would be happy to remove the names of any faculty from the listing in Appendix B: Faculty which indicates research and/or teaching interests in this area if so desired.

5. There were concerns expressed about the waiving of prerequisites for courses and also the number of prerequisites for some courses. The *possible* waiving of prerequisites is left up to each instructor. There may be occasions where a student's academic background in a related field may be adequate preparation for a course. We did review the course prerequisites. Courses with significant prerequisites were not automatically excluded from the minor. Although fewer students may be able to utilize these courses for the minor, we wanted to allow for such a possibility given the appropriateness of the coursework to the minor. The wide range of elective coursework should allow students to choose courses such that the completion of prerequisites is not burdensome.

Please review the revised proposal for an interdisciplinary undergraduate minor in Societal Perspectives in Science and Technology. We look forward to your comments and hope for your concurrence with this endeavor.



Linda G. Schoen
Assistant Executive Dean
Office of Interdisciplinary Programs

November 7, 2006

Linda Schoen

From: Linda Schoen [schoen.16@osu.edu]
Sent: Monday, November 28, 2005 10:24 AM
To: flores@matsceng.ohio-state.edu; kinsel.1@osu.edu; korpela.1@osu.edu; lilly.2@osu.edu; tilder.1@osu.edu
Cc: 'Ed McCaul'; 'Edward Adelson'; weide.1@osu.edu; 'Linda Schoen'
Subject: Proposed Undergraduate Minor in Science and Technology in Society
Attachments: Science and Technology in Society Minor ProposalRev.doc



Science and
Technology in Soci..

Dear Colleagues,

The Colleges of Arts and Sciences have been developing a new interdisciplinary undergraduate minor in Science and Technology in Society. Your College Committee on Academic Affairs suggested that you have expertise in this area and that you may have interest in being involved in this development. I am happy to share this proposal with you and welcome your feedback. If you have additional coursework that you think might be appropriate, please send me the syllabi and I would be happy to share it with the development committee. If you are interested, I am happy to add you to our development committee. At this point, we are not likely to meet physically but will continue to share via email. Please let me know if you have any questions.

Linda

Linda G. Schoen
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Columbus, OH 43210
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Engineering's College Committee on Academic Affairs
Comments on
"A Proposal for an Interdisciplinary Minor in Science and Technology in Society"

We have been asked to comment on the above proposal (Rev 4/27/06). As with the original version (Rev 3/3/05), we **do not concur**. The objections raised in our response to the first version of this proposal have not been addressed adequately.

In the first round of comments, we began by noting:

We like the *idea* of a minor in this area, and expect that there may be a significant audience for it. Our primary reason for non-concurrence is that, as proposed, this minor does not require even one course in "technology". Having OSU graduates with "Science, Technology, and Society" listed on their transcripts or diplomas, who may not know anything in depth about any *actual technology*, seems like false advertising. A similar case could be made for depth in science.

The primary change in the new proposal seems to be the name change to "Science and Technology in Society". This change is appropriate, but the title still may be misleading to students and employers. How can a student grasp the interaction between science and technology and society without understanding something about technology beyond its mere existence? The name change does not alleviate our concern about students advertised as graduating with some understanding of "technology" when there is no requirement for even a single technology course. Moreover, the name of the minor would imply to a prospective employer that it deals with modern technology. Yet, it is possible for a student to take all 15 elective hours in courses that deal with the impact of "technologies" that existed before 1900 (e.g., "Magic in the Ancient World", "Greek and Roman Science and Technology", "The Age of Modernity in the 19th Century"). Not only is no essential understanding of modern technology required, little knowledge of the interactions among modern science and modern technology and modern society—only whatever is in Comparative Studies 272—is required.

The proposal also now emphasizes in several places that the minor is intended for students "particularly in science and engineering fields". Our concern is not about these students, but rather that students majoring in *other* fields need not learn about technology. When we said "there may be a significant audience for it", we were not referring to engineering students, but rather to students who currently are not required to take any courses about technology. Every student has a GEC science requirement but there is no parallel requirement regarding technology. This minor could, therefore, be completed by a student whose understanding of technology consisted of little more than the ability to drive a car and to use a computer.

We suggest that there would be serious objections within ASC to a proposed minor in "Art and Music in Society" in which depth in art derived from the GEC visual and performing arts requirement, and in which music requirements were nil on the grounds that most students would already know how to operate an iPod. Though we do not want to take this analogy too far, we hope it helps clarify our refusal to concur because technology content is essentially non-existent.

Our response to the initial proposal included two other observations:

Our understanding of the nature of a "minor" (as opposed to, say, the GEC) is that a student should achieve some depth of knowledge in a focused topic area. This minor offers a smorgasbord of courses connected to each other by very little prerequisite structure. So, it seems unlikely a student will get much depth in the nominal topic area of the minor; perhaps breadth, surely different points of view from various disciplines about some aspects of the topic area, but not much depth. It may be that studying multiple points of view about some topic—explicitly at the expense of depth—is what distinguishes a "multidisciplinary minor" from an ordinary "minor". We are not aware of a clear definition of either term.

We find in the new proposal no response or attention to this concern. At this point, then, it seems there is no accepted definition of "multidisciplinary minor" (or "interdisciplinary minor" as it is called in this version). We submit that focus and depth beyond what is obtained in a single course or in a cafeteria-style selection of courses *should be* a requirement for any OSU minor, interdisciplinary or not.

A statement is made that this proposal parallels curricular offerings in Science, Technology and Society¹ at three institutions. The University of Michigan and the University of Texas at Austin do have minors with somewhat similar structure. However, both appear of be directed primarily to liberal arts students, and the latter is about the social impact of information technology rather than the more general "science and technology". No such minor was found via an internet search at the University of Minnesota web site. This proposal would benefit from further comparison to these exemplars for similarities and differences. Perhaps some indication of the success of these minors could be included.

Our final observation regarding the original proposal was:

Page 2 of the proposal implies that faculty from other units with jurisdictional interest in the apparent intellectual content of the minor were invited to participate in development of this minor. To our knowledge, no one from the College of Engineering was consulted—though Engineering is widely considered *the* "technology" college at OSU and offers courses that an external observer would expect to be part of a minor with competence in "technology" implied in its name. Several courses offered in Engineering should be appropriate for students (including non-Engineering students) in this minor, e.g., ENG 181, ENG 183, ENG 367, and several discipline-specific courses. In addition, there are several faculty members in Engineering whose intellectual, professional, and teaching interests include the general topic area of this minor, e.g., Kathy Flores (Materials Science and Engineering), Gary Kinzel and Seppo Korpela (Mechanical Engineering), Blaine Lilly (Industrial, Welding, and Systems Engineering), and Lisa Tilder (Architecture). We would be interested in contributing to this minor.

The new proposal now lists the names of the above Engineering faculty members and even a couple others. To date, however, apparently none of them outside Architecture has been

¹ The proposal reads "... and Science", but it is assumed this is mistyped.

contacted to invite their participation in contributing to the proposed minor. The Engineering courses listed are Engineering 367 (a second writing course) and a few from the School of Architecture. No one has yet asked us which other courses might be appropriate.

We have one additional concern that was not mentioned in our response to the initial proposal. The courses listed in the minor may not have been carefully screened to determine how difficult it would be for students to meet the prerequisites, based on the *2005-2006 Course Offerings Bulletin*. If a student wants to take a course as part of the minor and does not need to meet the prerequisites but is able to get permission of the instructor, then what is the purpose of the prerequisites? Some examples are:

- Philosophy 455, one of the four core courses, has the following prerequisites: Philosophy 250 and either a major in philosophy or 15 credit hours of philosophy course work exclusive of Philosophy 150; or permission of instructor.
- Communication 341, an elective course, has a prerequisite of journalism or communications major with no mention of permission of instructor.
- Entomology 531, an elective course, has prerequisites of 5 credit hours in organic chemistry and 10 credit hours in biological sciences at the 200 level or above.
- Natural Resources 400, an elective course, has prerequisites of Natural Resources 201 and 203.
- Philosophy 655, an elective course, has prerequisites of Philosophy 250 and 10 credit hours of philosophy work at the 300 level or above (preferably 460); or graduate standing; or permission of instructor.
- Psychology 695.04, an elective course, has prerequisites of written permission of instructor; either Psychology 219 or 220 or 320, or Statistics 145 or 245; and 17 credit hours of psychology course work above the 200 level; or graduate standing.
- Three elective courses require that the student be in the major or receive permission of the instructor.

The College of Engineering remains willing to contribute to the development of the proposed minor in assuring that students have the foundational knowledge needed to meet the goals of the minor, and that technology plays a role similar to those of science and society in the study of their mutual interactions. However, without such contribution and collaboration, Engineering does not concur with the current proposal.

Engineering's College Committee on Academic Affairs
Ed McCaul
Secretary

26 May 2006

Engineering's College Committee on Academic Affairs
Comments on
"A Proposal for a Multidisciplinary Minor in Science, Technology, and Society"

We have been asked to comment on the above proposal (Rev 3/3/05). We **do not concur** with the proposal for the following reason:

We like the *idea* of a minor in this area, and expect that there may be a significant audience for it. Our primary reason for non-concurrence is that, as proposed, this minor does not require even one course in "technology". Having OSU graduates with "Science, Technology, and Society" listed on their transcripts or diplomas, who may not know anything in deep about any *actual technology*, seems like false advertising. A similar case could be made for depth in science.

We make the following additional observations:

1. Our understanding of the nature of a "minor" (as opposed to, say, the GEC) is that a student should achieve some *depth* of knowledge in a focused topic area. This minor offers a smorgasbord of courses connected to each other by very little prerequisite structure. So, it seems unlikely a student will get much depth in the nominal topic area of the minor; perhaps breadth, surely different points of view from various disciplines about some aspects of the topic area, but not much depth. It may be that studying multiple points of view about some topic—explicitly at the expense of depth—is what distinguishes a "multidisciplinary minor" from an ordinary "minor". We are not aware of a clear definition of either term.
2. Page 2 of the proposal implies that faculty from other units with jurisdictional interest in the apparent intellectual content of the minor were invited to participate in development of this minor. To our knowledge, no one from the College of Engineering was consulted—though Engineering is widely considered *the* "technology" college at OSU and offers courses that an external observer would expect to be part of a minor with competence in "technology" implied in its name. Several courses offered in Engineering should be appropriate for students (including non-Engineering students) in this minor, e.g., ENG 181, ENG 183, ENG 367, and several discipline-specific courses. In addition, there are several faculty members in Engineering whose intellectual, professional, and teaching interests include the general topic area of this minor, e.g., Kathy Flores (Materials Science and Engineering), Gary Kinzel and Seppo Korpela (Mechanical Engineering), Blaine Lilly (Industrial, Welding, and Systems Engineering), and Lisa Tilder (Architecture). We would be interested in contributing to this minor.

Ed McCaul
Secretary
Engineering's College Committee on Academic Affairs
6 May 2005

Societal Perspectives in Science and Technology Minor (Sci & Tech, 336)

Colleges of the Arts and Sciences

<http://artsandsciences.osu.edu>.

Please see an advisor in Arts and Sciences Academic Advising and Academic Services in 115 Denney Hall to declare the minor.

The Societal Perspectives in Science and Technology minor is an interdisciplinary field that investigates, from a variety of disciplinary and interdisciplinary perspectives, the ways science and technology interact with other aspects of society and culture. The courses in the minor explore the production of scientific and technical knowledge in varied historical and cultural contexts; the role of science, technology, and medicine in shaping modern societies; and the social, political, and ethical implications of new sciences and technologies. Completion of the minor does not imply competency in science or technological disciplines.

The minor in Societal Perspectives in Science and Technology requires completion of 25 credit hours. Students must successfully complete a foundational course and one of four core courses. The remaining credit hours may be taken from a range of advanced courses. Elective coursework must come from at least two different departments. Dependent on their interests and goals for the minor, students may choose to take advanced courses in a particular topic specialization to complement a major or across specializations to achieve a breadth across topics as well as disciplines. Students must discuss their choice of electives with an advisor and file an approved minor form with their college office.

Foundational Course

Comparative Studies 272: Science and Society (5)

Core course (5 credit hours)

Students are required to take one of the following:

Comparative Studies 597.01 (5)

Philosophy 455 (5)

Physics 367 (5)

Sociology 302 (5)

Electives

Students must complete an additional 15 hours from the courses listed below:

Environmental/Ecological Issues

ANTHRO 610 (5)

ARCH 700 (3)

CRP 722 (3), 724 (4)

ENT 460 (5), 531 (3)

EEOB 370 (3), 502 (4)

GEO SCI 203 (5), 204 (5), 210 (5)

HIST 366.01 (5), 366.02 (5)

LARCH 597 (5)

MICROBIO 301 (2), 509 (5)

NAT RES 400 (5)

PHIL 533 (5)

PHYSICS 367 (5)

SOC 460 (5)

Ethical, Political, and Policy Issues

COMP STD 535 (5)

COM 341 (5), 659 (5), 666 (5)

CRP 724 (4)

EEOB 710 (5)

INTL ST 554 (5)

NAT RES/LARCH 367 (5)

PHIL 533 (5), H580 (5)

WOMEN'S ST 535 (5)

Food and Population Issues

AED ECON 335 (5), 597.01 (5)

HORT & CROP SCI 200 (5), 597 (5)

INTL ST 335 (5), H597.01 (5)

SOC 597.02 (5)

Health Care Resources and Medical Technologies

ANTHRO 601.01 (5), 601.04 (5)

CLASSICS 230 (5)

COMP STD 305 (5)

HIST 562 (5)

PHIL H580 (5)

SOC 450 (5)

WOMEN'S ST 325 (5)

History of Science and Scientific Development

ARCH 601 (4), 602 (4)

CLASSICS 230 (5), 324 (5), 506 (5)

CRP 643 (4)

HIST 366.01 (5), 366.02 (5), 561 (5), 562 (5)

PHIL 455 (5), 460 (5), 655 (5)

Interaction of Technology and Science

ANTHRO 597.04 (5)

COM 240 (5), 640 (5), 654 (5)

COMP STD 204/H204 (5), 367.01/H367.01 (5), 597.01 (5)

CRP 310 (4)

ENG 367 (5)

INTL ST 554 (5)

PSYCH 695.04 (2)

SOC 302 (5)

Arts and Sciences minor program guidelines

The following guidelines govern minors.

Required for graduation No

Credit hours required A minimum of 25 for Societal Perspectives in Science and Technology

Transfer credit hours allowed A maximum of 10

Overlap with the GEC Permitted, unless specifically disallowed by an individual minor program.

Overlap with the major Not allowed and

- The minor must be in a different subject than the major.
- The same courses cannot count on the minor and on the major.

Overlap between minors Each minor completed must contain 20 unique hours.

Grades required

- Minimum C- for a course to be listed on the minor.
- Minimum 2.00 cumulative point-hour ratio required for the minor.
- Course work graded Pass/Non-Pass cannot count on the minor.

Approval required The minor program description sheet indicates if the minor course work must be approved by:

- The academic unit offering the minor, or
- A college/school counselor.

Filing the minor program form The minor program form must be filed at least by the time the graduation application is submitted to a college/school counselor.

Changing the minor Once the minor program is filed in the college office, any changes must be approved by:

- The academic unit offering the minor, or
- A college/school counselor (depending on the minor).

**Proposal for an Interdisciplinary Minor in Societal
Perspectives in Science and Technology
The Colleges of the Arts and Sciences**

Development Committee:

| | |
|------------------|--|
| Edward Adelson | Colleges of the Arts and Sciences |
| E. Scott Bair | School of Earth Sciences |
| Neil Baker | Department of Microbiology |
| Kyle Benner | Undergraduate Student, EEOB/Spanish |
| Alan Beyerchen | Department of History |
| Ed Crenshaw | Department of Sociology |
| Peter Curtis | Department of Evolution, Ecology and Organismal Biology |
| Will Froilan | Undergraduate Advising, Department of Psychology |
| David Horn | Department of Comparative Studies |
| Larry Krissek | School of Earth Sciences |
| Gene Mumy | Department of Economics, College of Social and Behavioral Sciences |
| Matthew Nisbet | School of Communication |
| George Pappas | Department of Philosophy |
| John Parson | Department of Chemistry |
| Alisa Paulsen | Undergraduate Advising, Department of Psychology |
| Jill Pfister | College of Food, Agricultural, and Environmental Sciences |
| Linda Schoen | Colleges of the Arts and Sciences |
| Frank Schwartz | School of Earth Sciences |
| Linn Van Woerkom | Department of Physics |
| Bruce Weinberg | Department of Economics |

Rev 12/7/06

Proposal for an Interdisciplinary Minor in Societal Perspectives in Science and Technology

This proposal is to establish a new undergraduate minor in Societal Perspectives in Science and Technology. The minor will enable students to investigate, from a variety of disciplinary and interdisciplinary perspectives, the ways science and technology interact with other aspects of society and culture. The courses in the minor explore the production of scientific and technical knowledge in varied historical and cultural contexts; the role of science, technology, and medicine in shaping modern societies; and the social, political, and ethical implications of new sciences and technologies. Completion of the minor does not imply competency in science or technological disciplines. The field of Science, Technology and Society is a recognized academic discipline that examines these areas. At The Ohio State University, this discipline is represented in a curricular form presently by the existing undergraduate major concentration in Science Studies in the Department of Comparative Studies. This minor parallels curricular offerings in Science, Technology, and Society at other peer institutions, such as the University of Michigan, the University of Minnesota, and the University of Texas.

Development of the Minor

An invitation to participate in the development of this interdisciplinary minor was sent to all chairs and undergraduate studies chairs within the Colleges of the Arts and Sciences. The resulting structure and curriculum of the minor were developed by a group of interested faculty and an undergraduate student from the departments of Chemistry; Comparative Studies; Evolution, Ecology, and Organismal Biology; Geological Sciences; History; Microbiology; Philosophy; Physics; Psychology; and Sociology, as well as from the College of Food, Agricultural, and Environmental Sciences. Comments and suggestions were solicited from the chairs of all academic units with courses listed on the curriculum, and involvement was encouraged from throughout the Arts and Sciences and other colleges on campus.

Curriculum

The proposed undergraduate minor in Societal Perspectives in Science and Technology requires completion of 25 credit hours. Students must successfully complete a foundational course and one of four core courses. The remaining credit hours may be taken from a range of advanced courses. Elective coursework must come from at least two different departments. Elective courses have been categorized to help advise students (see Appendix A). Dependent on their interests and goals for the minor, students may choose to take advanced courses in a particular topic specialization to complement a major or across specializations to achieve a breadth across topics as well as disciplines. In addition, students may not take more than two courses at the 200-level to ensure in-

depth coverage. Students are encouraged to complete their General Education Curriculum Natural Science requirements prior to embarking on the minor in order to provide some understanding of a science discipline.

Foundational Course:

All students must take **Comparative Studies 272: Science and Society** (5 credit hours), which is classified as a GEC Arts and Humanities-Culture and Ideas course. This course introduces students to core concepts within the field of science, technology and culture. This course also serves as the foundational course for the concentration in Science Studies. Comparative Studies 272 is taught one quarter per year with a limit of 45 seats. In the last two years, there have been 10-13 open seats. Enrollment will be monitored to assess if there is adequate seat availability after the creation of the minor.

Core Courses:

Students are required to take one of following:

| | |
|-----------------|--|
| Comp Std 597.01 | Global Studies of Science and Technology (GEC Contemporary World) (5 crs) |
| Phil 455 | Philosophy of Science (5 crs) |
| Physics 367 | Uses of Science in Solving Problems of Society (GEC 2 nd level Writing; Physical Science) (5 crs) |
| Soc 302 | Technology and Global Society (5 crs) |

These core courses provide students with a further foundation in different aspects of the science and society field, for example, in the philosophy or history of science. Philosophy 455, Physics 367, and Sociology 302 are offered one quarter per year. Comparative Studies 597.01 is offered every quarter. It is not expected that students will encounter any barriers in registering for core courses as there are multiple options for this requirement.

Electives:

Students must complete an additional 15 hours from the courses listed below. Coursework must come from two different academic units. Courses are categorized into specialization areas to assist students in choosing courses to meet their interests or complement their major (see Appendix A for a listing of courses categorized by academic unit). Students may elect to take **any** combination of courses listed below in order to reflect their particular academic interests. Prerequisites (listed in Appendix C) may be waived for minors, so students are advised to consult regularly with their advisor.

Environmental/Ecological Issues

| | |
|------------|------------------------------------|
| Anthro 610 | Ethnobotany (5 crs) |
| ARCH 700 | Allied Arts: Green Matters (3 crs) |

| | |
|--------------|--|
| CRP 722 | Introduction to Analysis and Use of Environmental Factors in City and Regional Planning (3 crs) |
| CRP 724 | Introduction to Planning for Sustainable Development (4 crs) |
| Ent 460 | Economic Entomology and Insect Pest Management (5 crs) |
| Ent 531 | Pesticides, the Environment, and Society (3 crs) |
| EEOB 370 | Extinction (3 crs) |
| EEOB 502 | Plants and People (4 crs) |
| Geo Sci 203 | Geology and the Environment (GEC phys sci) (5 crs) |
| Geo Sci 204 | Water Resources (5 crs) (Exploring Water Issues-new title proposed) |
| Geo Sci 210 | Energy and Mineral Resources in Society (GEC phys sci) (5 crs) |
| Hist 366.01 | Global Environmental History (5 crs) |
| Hist 366.02 | American Environmental History (5 crs) |
| LARCH 597 | Stewardship Issues in Environmental Design and Development (GEC Contemporary World) (5 crs) |
| Microbio 301 | The Biology of Pollution (2 crs) |
| Microbio 509 | Basic and Practical Microbiology (GEC Biological Science) (5 crs) |
| Nat Res 400 | Natural Resources Policy (GEC Social Science-Organizations & Politics) (5 crs) |
| Phil 533 | Environmental Ethics (5 crs) |
| Physics 367 | Uses of Science in Solving Problems of Society (GEC 2 nd Level Writing; Physical Science) (5 crs) |
| Soc 460 | Environmental Sociology (5 crs) |

Ethical, Political, and Policy Issues

| | |
|-------------------|---|
| Comp Std 535 | Gender and Science (cross-listed with Women's Studies 535) (5 crs) |
| COM 341 | Introduction to Telecommunications and Electronic Media Theories and Policies (5 crs) |
| COM 659 | Communication Systems and Society (5 crs) |
| COM 666 | Communication Perspectives on Contemporary Cultural Products (5crs) |
| CRP 724 | Introduction to Planning for Sustainable Development (4 crs) |
| EEOB 710 | Creation and Evolution: Differing World Views (5 crs) |
| Intl St 554 | Science, Technology and the Cold War (5 crs) |
| Nat Res/LARCH 367 | The Making and Meaning of the American Landscape (GEC 2 nd Writing, Arts & Humanities-Culture & Ideas for BS degree only) (5 crs) (Cross-listed in Landscape Architecture) |
| Phil 533 | Environmental Ethics (5 crs) |
| Phil H580 | Ethical Conflicts in Health Care Research, Policy, and Practice (cross-listed with Nursing 580) (5 crs) |
| Women's St 535 | Gender and Science (5 crs) |

Food and Population Issues

| | |
|---------------------|--|
| AED Econ 335 | Feast or Famine: The Global Business of Food (5 crs) (cross-listed in International Studies) |
| AED Econ 597.01 | Problems and Policies in World Population, Food, and Environment (GEC Contemporary World) (5 crs) (cross-listed with International Studies 597.01) |
| Hort & Crop Sci 200 | Crop Science (GEC bio sci) (5 crs) |
| Hort & Crop Sci 597 | Issues in Biotechnology (GEC Contemporary World) (5 crs) |
| Intl St 335 | Feast or Famine: The Global Business of Food (5 crs) (cross-listed in AED Econ) |
| Intl St 597.01 (H) | Problems and Policies in World Population, Food, and Environment (GEC Contemporary World) (5 crs) (cross-listed with AED Econ 597.01) |
| Soc 597.02 | World Population Problems (5 crs) |

Health Care Resources and Medical Technologies

| | |
|----------------|--|
| Anthro 601 | Medical Anthropology (5 crs) |
| Anthro 601.01 | Biosocial Aspects of Health |
| Anthro 601.04 | Global Perspectives on Women's Health |
| Classics 230 | Medicine in the Ancient World (5 crs) |
| Comp Std 305 | Medicine and the Humanities (GEC Arts & Humanities-Culture & Ideas) (5 crs) |
| Hist 562 | History of American Medicine (5 crs) |
| Phil H580 | Ethical Conflicts in Health Care Research, Policy, and Practice (cross-listed with Nursing 580) (5 crs) |
| Soc 450 | Illness and Social Behavior (5 crs) |
| Women's St 325 | Issues in Women's Health (5 crs) |

History of Science and Scientific Development

| | |
|--------------|--|
| ARCH 601 | History of Architecture: Renaissance to Crystal Palace (4 crs) |
| ARCH 602 | History of Modern Architecture (4 crs) |
| Classics 230 | Medicine in the Ancient World (5 crs) |
| Classics 324 | Magic in the Ancient World (5 crs) |
| Classics 506 | Greek and Roman Science and Technology (5 crs) |
| CRP 643 | American City Planning since 1900 A.D. (4 crs) |
| Hist 366.01 | Global Environmental History (5 crs) |
| Hist 366.02 | American Environmental History (5 crs) |
| Hist 561 | History of American Science (5 crs) |
| Hist 562 | History of American Medicine (5 crs) |
| Phil 455 | Philosophy of Science (5 crs) |
| Phil 460 | Introduction to Theory of Knowledge (5 crs) |
| Phil 655 | Advanced Philosophy of Science (5 crs) |

Interaction of Technology and Society

| | |
|-----------------------------|--|
| Anthro 597.04 | The Molecular Revolution: Heredity, Genome Mapping, and Genomania (GEC Contemporary World) (5 crs) |
| COM 240 | Introduction to Communication Technology (5 crs) |
| COM 640 | Science Communication (5 crs) |
| COM 654 | Social Implications of Telecommunications and Electronic Media Structures (5 crs) |
| Comp Std 204/H204 | Literature, Science, and Technology (GEC Arts & Humanities – Literature) (5 crs) |
| Comp Std 367.02/ H367.02 | Science and Technology in American Culture (GEC 2 nd Writing) (5 crs) |
| Comp Std 597.01 | Global Studies of Science and Technology (GEC Contemporary World) (5 crs) |
| CRP 310 | Introduction to City and Regional Planning (4 crs) |
| Eng 367 | American Attitudes about Technology (GEC 2 nd Writing) (5 crs) |
| Intl St 554 | Science, Technology and the Cold War (5 crs) |
| Psych 695.04 | Seminars in Psychology: Technology, Efficiency, and Happiness (2 crs) |
| Soc 302 | Technology and Global Society (5 crs) |

See Appendix F for examples of syllabi from both foundational and advanced elective courses.

Sample Minor Curricula

The minor has been developed with more breadth than some disciplinary minors in order to provide a structure which allows for multiple outcomes dependent on students' academic backgrounds and interests. Students will be required to meet with an advisor for approval of their minor program curriculum to ensure coherence and focus within the choice of elective coursework. Sample goals and curricula for a variety of prospective students are provided below:

- a student majoring in engineering may want to focus on the interaction of society and science and technology and a sample of resultant ethical and policy issues. A possible curriculum might include:
 - o Comparative Studies 272: Science and Society
 - o Sociology 302: Technology and Global Society
 - o Engineering 367: American Attitudes about Technology
 - o International Studies 554: Science, Technology and the Cold War
 - o Philosophy 533: Environmental Ethics
- a biological sciences major who is pre-med may want to focus on the societal perspectives between science and society and focus on health care resources and medical technologies. A sample curriculum might include:
 - o Comparative Studies 272: Science and Society

- Comparative Studies 597: Global Studies of Science and Technology
- History 562: History of American Medicine
- Philosophy H580: Ethical Conflicts in Health Care Research, Policy, and Practice
- Women's Studies 325: Issues in Women's Health
- a communications major may want to focus on the interaction of society and science and technology around environmental and ecological issues. Such a student might take:
 - Comparative Studies 272: Science and Society
 - Philosophy 455: Philosophy of Science
 - Architecture 700: Allied Art: Green Matters
 - Entomology 531: Pesticides, the Environment, and Society
 - History 366.02: American Environmental History
 - Sociology 460: Environmental Sociology

Administration and Advising

The minor will be listed in the OSU Bulletin as “an interdisciplinary minor offered by The Colleges of the Arts and Sciences.” An interdisciplinary Faculty Advisory Committee will be formed with representatives from the major departments offering coursework within the minor and will include a representative from the university academic advising community. The Committee will be appointed by the Associate Executive Dean of the Colleges of the Arts and Sciences according to the guidelines approved for interdisciplinary programs by the Colleges of the Arts and Sciences Committee on Curriculum and Instruction (CCI). This committee will evaluate the minor curriculum and course offerings and meet at least once per year in order to make recommendations to the CCI Subcommittee A regarding policy rules, the addition of courses to the minor, the status of the minor, and the assessment of learning outcomes. The CCI will have curricular oversight of the program.

Active advising is essential to students reaping the greatest benefits from this curricular program. Advising will be done by professional departmental advisors, in conjunction with Arts and Sciences advisors. The minor will be administered through the Colleges of the Arts and Sciences Office of Interdisciplinary Programs, which will coordinate and disseminate program materials, facilitate and support the work of the Faculty Advisory Committee, and resolve any student issues. Program materials will be available through the Arts and Sciences Curriculum Office, the Arts and Sciences Advising Service, and through the interdisciplinary program website of the Colleges of the Arts and Sciences. Advisors, in particular those within the Arts and Sciences Advising mathematical and science cluster, will be provided with any needed education re the requirements of the minor and the selection of courses.

Enrollment Projection

It is expected that this minor will be attractive to a wide variety of majors, but specifically students within science and technology majors. It is expected that students

majoring within the biological, physical, and health sciences, as well as those in engineering and agricultural fields may find this minor attractive. The minor will be advertised to students via several ways: through the creation of a minor requirement sheet maintained by the Colleges of the Arts and Sciences Curriculum Office, which will be circulated to advisors and relevant faculty, through the posting of curricular information on the Office of Interdisciplinary Programs within the Colleges of the Arts and Sciences website, and through establishing links on participating departments' websites. It is expected that the minor will initially attract a total of 20-30 students and grow to attract 10-15 sophomores and 5 upper-class students per year within five years. The Faculty Advisory Committee will monitor growth of student participation in the minor and make recommendations about possible increases in seat availability.

Student Learning Outcome Assessment Plan

The specific student learning goals for this minor include:

1. Students should be able to articulate an understanding of scientific method and the protocols of science.
2. Students should be able to articulate an awareness of the impact of science and technology on society.
3. Students should be able to articulate an understanding of the ways in which societal problems drive developments in science and technology.

Assessment Plan:

The Faculty Advisory Committee will be charged with assessing student learning outcomes. Initially, a focus group of junior and senior students will be convened in the Spring Quarter. To be included in the group, students must have completed at least three courses within the minor, including the foundational course and one of the core courses. The group will explore student perceptions of: (1) the attainment of the above goals, and (2) the structure, availability, and sequencing of courses in the minor. As enrollments increase, graduating seniors only will be assessed and survey methodology will be employed. In addition, the Faculty Advisory Committee will analyze the enrollment pattern within the minor on a yearly basis and address any issues affecting enrollment. The annual report which will include assessment information will be submitted to the Arts and Sciences Committee on Curriculum and Instruction Subcommittee A and to the participating faculty and academic units.

Resources

Current facilities and staff resources are adequate to support this minor. The interdisciplinary cooperation of units allows students to benefit from the resources that exist in disparate units in such a way that enhances the networking amongst units. Students may take advantage of the unique interdisciplinary nature of the field of science,

technology, and society and the many existing courses that already exist at The Ohio State University.

Expenses

Current faculty levels are adequate to staff the courses as the minor relies on existing courses for foundational and advanced courses. As the minor aids in connecting interested students to specific courses, it is expected that new courses can be developed as there will be a body of students to populate them. Our current budgetary system should reinforce the development of new courses as the interested student body grows. See Appendix B for a listing of faculty who regularly teach courses and conduct research in this area.

Competitiveness With Other Institutions

With the development of a minor, Ohio State joins a number of its benchmark and peer institutions that have programs, majors, or minors in this area. Existing programs within Ohio have not been found, yet similar programs are offered, for example, at the University of Michigan, the University of Minnesota, and at the University of Texas. See Appendix D for sample programs at other institutions.

Administrative Support for the Minor

The establishment of this minor is supported at various levels. It has the support of the Executive Dean of the Colleges of Arts and Sciences, Jacqueline Royster. Additional program concurrence and support has been obtained from many academic units and administrators (see Appendix E).

Implementation Date

The minor in Science and Technology in Society is proposed for implementation in Winter Quarter 2007.

APPENDIX A: Elective Courses Categorized by Academic Unit

Elective Coursework

Students must complete an additional 15 hours from the courses listed below. Coursework must come from two different academic units. Courses are categorized for student interest and advising purposes. Students may elect to take **any** combination of courses listed below that reflect their particular academic interests.

Agricultural, Environmental, and Developmental Economics

| | |
|-----------------|--|
| AED Econ 335 | Feast or Famine: The Global Business of Food (5 crs) (cross-listed in International Studies) |
| AED Econ 597.01 | Problems and Policies in World Population, Food, and Environment (GEC Contemporary World) (5 crs) (cross-listed with International Studies 597.01) |

Anthropology

| | |
|---------------|--|
| Anthro 597.04 | The Molecular Revolution: Heredity, Genome Mapping, and Genomania (GEC Contemporary World) (5 crs) |
| Anthro 601 | Medical Anthropology (5 crs) |
| Anthro 601.01 | Biosocial Aspects of Health |
| Anthro 601.04 | Global Perspectives on Women's Health |
| Anthro 610 | Ethnobotany (5 crs) |

Architecture

| | |
|----------|--|
| ARCH 601 | History of Architecture: Renaissance to Crystal Palace (4 crs) |
| ARCH 602 | History of Modern Architecture (4 crs) |
| ARCH 700 | Allied Arts: Green Matters (3 crs) |

City and Regional Planning

| | |
|---------|---|
| CRP 310 | introduction to City and Regional Planning (4 crs) |
| CRP 643 | American City Planning since 1900 A.D. (4 crs) |
| CRP 722 | introduction to Analysis and Use of Environmental Factors in City and Regional Planning (3 crs) |
| CRP 724 | Introduction to Planning for Sustainable Development (4 crs) |

Classics

| | |
|--------------|--|
| Classics 230 | Medicine in the Ancient World (5 crs) |
| Classics 324 | Magic in the Ancient World (5 crs) |
| Classics 506 | Greek and Roman Science and Technology (5 crs) |

Communication

| | |
|---------|---|
| COM 240 | introduction to Communication Technology (5 crs) |
| COM 341 | Introduction to Telecommunications and Electronic Media Theories and Policies (5 crs) |
| COM 640 | Science Communication (5 crs) |

| | |
|---------|---|
| COM 654 | Social Implications of Telecommunications and Electronic Media Structures (5 crs) |
| COM 659 | Communication Systems and Society (5 crs) |
| COM 666 | Communication Perspectives on Contemporary Cultural Products (5 crs) |

Comparative Studies

| | |
|-----------------------------|--|
| Comp Std 204/H204 | Literature, Science, and Technology (GEC Arts & Humanities – Literature) (5 crs) |
| Comp Std 305 | Medicine and the Humanities (GEC Arts & Humanities-Culture & Ideas) (5 crs) |
| Comp Std 367.02/ H367.02 | Science and Technology in American Culture (GEC 2 nd Writing) (5 crs) |
| Comp Std 535 | Gender and Science (cross-listed with Women's Studies 535) (5 crs) |
| Comp Std 597.01 | Global Studies of Science and Technology (GEC Contemporary World) (5 crs) |

Engineering

| | |
|---------|---|
| Eng 367 | American Attitudes about Technology (GEC 2 nd Writing) (5 crs) |
|---------|---|

Entomology

| | |
|---------|--|
| Ent 460 | Economic Entomology and Insect Pest Management (5 crs) |
| Ent 531 | Pesticides, the Environment, and Society (3 crs) |

Evolution, Ecology, and Organismal Biology

| | |
|----------|---|
| EEOB 370 | Extinction (3 crs) |
| EEOB 502 | Plants and People (4 crs) |
| EEOB 710 | Creation and Evolution: Differing World Views (5 crs) |

Geological Sciences

| | |
|-------------|---|
| Geo Sci 203 | Geology and the Environment (GEC phys sci) (5 crs) |
| Geo Sci 204 | Water Resources (5 crs) (Exploring Water Issues-new title proposed) |
| Geo Sci 210 | Energy and Mineral Resources in Society (GEC phys sci) (5 crs) |

History

| | |
|-------------|--|
| Hist 366.01 | Global Environmental History (5 crs) |
| Hist 366.02 | American Environmental History (5 crs) |
| Hist 561 | History of American Science (5 crs) |
| Hist 562 | History of American Medicine (5 crs) |

Horticulture and Crop Science

| | |
|---------------------|--|
| Hort & Crop Sci 200 | Crop Science (GEC bio sci) (5 crs) |
| Hort & Crop Sci 597 | issues in Biotechnology (GEC Contemporary World) (5 crs) |

International Studies

- Intl St 335 Feast or Famine: The Global Business of Food (5 crs)
(cross-listed in AED Econ)
- Intl St 554 Science, Technology and the Cold War (5 crs)
- Intl St 597.01 (H) Problems and Policies in World Population, Food, and
Environment (GEC Contemporary World) (5 crs) (cross-listed with
AED Econ 597.01)

Landscape Architecture

- LARCH 367 The Making and Meaning of the American Landscape (GEC 2nd
Writing, Arts & Humanities-Culture & Ideas for BS degree only)
(5 crs) (Cross-listed in Natural Resources)
- LARCH 597 Stewardship Issues in Environmental Design and Development
(GEC Contemporary World) (5 crs)

Microbiology

- Microbio 301 The Biology of Pollution (2 crs)
- Microbio 509 Basic and Practical Microbiology (GEC Biological Science) (5 crs)

Natural Resources

- Nat Res 367 The Making and Meaning of the American Landscape (GEC 2nd
Writing, Arts & Humanities-Culture & Ideas for BS degree only)
(5 crs)
- Nat Res 400 Natural Resources Policy (GEC Social Science-Organizations &
Politics) (5 crs)

Philosophy

- Phil 455 Philosophy of Science (5 crs)
- Phil 460 Introduction to Theory of Knowledge (5 crs)
- Phil 533 Environmental Ethics (5 crs)
- Phil H580 Ethical Conflicts in Health Care Research, Policy, and Practice
(cross-listed with Nursing 580) (5 crs)
- Phil 655 Advanced Philosophy of Science (5 crs)

Physics

- Physics 367 Uses of Science in Solving Problems of Society (GEC 2nd Level
Writing; Physical Science) (5 crs)

Psychology

- Psych 695.04 Seminars in Psychology: Technology, Efficiency, and Happiness
(2 crs)

Sociology

- Soc 302 Technology and Global Society (5 crs)
- Soc 450 Illness and Social Behavior (5 crs)
- Soc 460 Environmental Sociology (5 crs)

Soc 597.02 World Population Problems (5 crs)

Women's Studies

Women's St 325 Issues in Women's Health (5 crs)

Women's St 535 Gender and Science (5 crs)

APPENDIX B: FACULTY

Faculty listed below have research and/or teaching interests in Science, Technology, and Society or related areas at The Ohio State University.

| | |
|-----------------------|--|
| Neil Baker | Department of Microbiology |
| James R. Bartholomew | Department of History |
| Robert Batterman | Department of Philosophy |
| Alan Beyerchen | Department of History |
| Brenda Jo Brueggerman | Department of English |
| Timothy Choy | Department of Comparative Studies |
| María Manta Conroy | Austin E. Knowlton School of Architecture |
| Ed Crenshaw | Department of Sociology |
| Peter Curtis | Department of Evolution, Ecology & Organismal Biology |
| John Finer | Department of Horticulture and Crop Science |
| Katharine Flores | Department of Materials Science and Engineering |
| Jacqueline Gargus | Austin E. Knowlton School of Architecture |
| Claudio Gonzalez-Vega | Department of Agricultural, Environmental, and Developmental Economics |
| David Horn | Department of Comparative Studies |
| Motomu Ibaraki | School of Earth Sciences |
| Shahrukh A. Irani | |
| Richard Jagacinski | Department of Psychology |
| Nancy Jesser | Department of Comparative Studies |
| Pablo Jourdan | Department of Horticulture and Crop Science |
| Stephen Kern | Department of History |
| Gary Kinzel | Department of Mechanical Engineering |
| Seppo Korpela | Department of Mechanical Engineering |
| Lawrence Krissek | School of Earth Sciences |
| Blaine Lilly | Department of Industrial, Welding, and Systems Engineering |
| Garry McKenzie | Department of Geological Sciences |
| Gene Mumy | Department of Economics |
| Matthew Nisbet | School of Communication |
| John Parson | Department of Chemistry |
| Douglas Pride | School of Earth Sciences |
| John Simpson | Austin E. Knowlton School of Architecture |
| Douglas Southgate | Department of Agricultural, Environmental, and Developmental Economics |
| Maurice Stevens | Department of Comparative Studies |
| Lonnie Thompson | School of Earth Sciences |
| Lisa Tilder | Austin E. Knowlton School of Architecture |
| Thuy Linh Tu | Department of Comparative Studies |
| Bruce Weinberg | Department of Economics |
| Kristi Williams | Department of Sociology |

Linn Van Woerkom
Victoria Wohl

Department of Physics
Department of Greek and Latin

APPENDIX C: Prerequisites for CoursesFoundational Course

Comp Std 272 English 110 or equivalent

Core Courses

Comp Std 597.01 Sr standing and completion of GEC 2nd writing course.
quantitative and logical skills req, and natural science sequence or
perm
Phil 455 Phil 250 and either major or 15 crs of Phil (may be waived)
Physics 367 Math Placement S or higher; 1 5-hr 100-level course in either
astron, bio sci, geol sci, or physics; English 110 or 111 or equiv
Soc 302 None

ElectivesAgricultural, Environmental, and Developmental Economics

AED Econ 335 None
AED Econ 597.01 None

Anthropology

Anthro 597.04 Jr or Sr standing
Anthro 601.01 None
Anthro 601.04 Anthro 200 or permission of instructor
Anthro 610 One course I anthro or plant bio at the 200-level or above or perm

Architecture

ARCH 601 None
ARCH 602 None
ARCH 700 Arch 4th year or grad standing or permission of instr

City and Regional Planning

CRP 310 None
CRP 643 None
CRP 722 CRP 745 or permission of instr
CRP 724 None

Classics

Classics 230 None
Classics 324 None
Classics 506 None

Communication

COM 240 None
COM 341 Journalism or communication major
COM 640 Jr or Sr standing
COM 654 Journalism or communication major or perm

| | |
|---------|---|
| COM 659 | Journalism or communication major or perm |
| COM 666 | Journalism or communication major or perm |

Comparative Studies

| | |
|-----------------------------|--|
| Comp Std 204/H204 | English 110 or equivalent |
| Comp Std 367.02/ H367.02 | English 110 or equivalent, and soph standing |
| Comp Std 305 | Soph standing and English 110 or equiv |
| Comp Std 535 | One course in comp std or wom stds |
| Comp Std 597.01 | Sr standing and completion of GEC 2nd writing course. quantitative and logical skills req, and natural science sequence or perm |

Engineering

| | |
|---------|--------------------------------------|
| Eng 367 | English 110 or 111 and soph standing |
|---------|--------------------------------------|

Entomology

| | |
|---------|---|
| Ent 460 | Biology 101 or 113 or H115 |
| Ent 531 | 5 crs in organic chem. & 10 in bio sci at 200 –level) |

Evolution, Ecology, and Organismal Biology

| | |
|----------|--|
| EEOB 370 | 5 crs of biological sciences course work |
| EEOB 502 | 5 cr hrs of biological sciences |
| EEOB 710 | 10 cr hrs of biology |

Geological Sciences

| | |
|-------------|--------------------|
| Geo Sci 203 | Geo Sci 100 or 121 |
| Geo Sci 204 | Geo Sci 121 |
| Geo Sci 210 | Geo Sci 100 or 121 |

History

| | |
|-------------|---------------|
| Hist 366.01 | None |
| Hist 366.02 | Soph standing |
| Hist 561 | Jr standing |
| Hist 562 | None |

Horticulture and Crop Science

| | |
|---------------------|--|
| Hort & Crop Sci 200 | Bio 101 or Bio 113 or Plant Bio 101 |
| Hort & Crop Sci 597 | Bio 101 or Bio 113 or Plant Bio 101 or equiv, snr standing |

International Studies

| | |
|--------------------|------|
| Intl St 335 | None |
| Inti St 554 | None |
| Intl St 597.01 (H) | None |

Landscape Architecture

LARCH 597 Senior standing

Microbiology

Microbio 301 None

Microbio 509 Bio 101 or 113 or H115 or 201

Natural Resources

Nat Res 367 English 110 or 111 or equiv

Nat Res 400 Nat Res 201 & 203

Philosophy

Phil 455 Symbolic Logic and major or 15 hrs of phil

Phil 460 major or 15 hrs of phil

Phil 533 Phil 130 or 431 or perm

Phil H580 Phil 130

Phil 655 Phil 250 and 10 crs of phil

PhysicsPhysics 367 Math Placement S or higher; 1 5-hr 100-level course in either
astron, bio sci, geol sci, or physics; English 110 or 111 or equivPsychology

Psych 695.04 Written permission of instructor

Sociology

Soc 302 None

Soc 450 5 cr hrs in sociology

Soc 460 Soc 101 or perm of instr

Soc 597.02 5 cr hrs of social science course work, GEC data analysis
requirementWomen's Studies

Women's St 325 5 cr hrs of wom stds course work or perm

Women's St 535 One course in comp std or wom stds

APPENDIX D: SIMILAR PROGRAMS AT OTHER INSTITUTIONS

LSA

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Home > Course Guide > LSA Bulletin > Chapter VI: Departments, Programs, and Courses > Residential College > Academic Minors > Bulletin: Residential College of Literature, Science, and the Arts Academic Minors: Science, Technology, and Society

Bulletin: Residential College of Literature, Science, and the Arts Academic Minors: Science, Technology, and Society

Science, Technology & Society

effective date of academic minor: February 17, 2001

Students wishing to pursue an academic minor in Science, Technology, and Society must develop a specific plan for its completion in consultation with the program's designated advisor. Appointments may be scheduled by sending email to <mailto:sts.minor.advisor@umich.edu> Students may not declare the STS minor later than the first week of the first term of their senior year.

No course may be counted simultaneously toward both STS and any other academic minor.

Courses on science, technology, and society are offered by many different departments and programs in LS&A as well as in other colleges of the university. Only courses specifically approved by the STS Program may be counted toward the minor. There are presently no provisions for exceptions to this rule. An up-to-date list of currently approved courses is available at the [STS Program web site](#).

Prerequisites to the Academic Minor: None for the Academic Minor *per se*, although individual courses elected to meet the requirements of the Academic Minor may have course prerequisites.

Academic Minor Program: At least 5 courses for a minimum of 18 credits of courses, to be elected from the categories as stated below:

A. Core course: Residential College Nat Sci 275. Social Dynamics of Science, Technology, and Medicine.

B. Electives. A minimum of 3 courses for at least 11 credits, subject to the following conditions:

A maximum of one elective at the 100 level is permitted (up to 4 credits).

At least two electives must be at the 300 level or above.

Students may also count any research seminar (see below) as an elective.

At least two of the student's three electives must be drawn from one of the focus clusters: science and society, technology and society, or medicine and society.

| Science and Society Focus Cluster | Technology and Society Focus Cluster | Medicine and Society Focus Cluster |
|---|---|--|
| <p>ANTHRBIO</p> <p>360 Race and Human Evolution</p> <p>361 Biology, Society, and Culture</p> <p>362 Problems of Race</p> | <p>427 Magic, Science and Religion in Early Modern England</p> <p>591, section subtitled "Science and Society in Early Modern Europe"</p> <p>HONORS</p> <p>252, Sophomore Seminar, section subtitled "Numbers and Reasons"</p> <p>MRE</p> <p>270 Our Common Future: Ecology, Economics & Ethics</p> | <p>ANTRHCUL</p> <p>258, section subtitled "Culture and Medicine"</p> <p>325 Anthropology of Childbirth</p> <p>416 Global Health</p> |
| <p>AQSS</p> <p>300 Global Environmental Impact of Technological Change</p> <p>BIOLOGY</p> <p>101 Biology and</p> | <p>AQSS</p> <p>300 Global Environmental Impact of Technological Change</p> <p>BIOLOGY</p> <p>140 Genetics and Society</p> <p>ENGLISH</p> <p>415 Interdisciplinary Approaches to Literature, section subtitled "Research and Technology in</p> | <p>444 Medical Anthropology</p> <p>BIOLOGY</p> <p>118 AIDS and Other Health Crises</p> |

Human Affairs

140 Genetics and Society

CHEM

120 First-Year Seminar, section subtitled "The History and Philosophy of Chemistry"

EEB

498 Ecology of Agroecosystems

ENVIRON

212 Introduction to Global Change III: Causes of Global Sustainability

270 Our Common Future: ecology, Economics & Ethics of Sustainable Development

HISTORY

285 Science, Technology and Society: 1940 to the Present

301 Origins of the University

302 The University

of Sustainable Development

PHYSICS

281 Physics and National Science Policy

Residential College

PCNSCI 232 History of Life

PCNSCI 250 Ecology, Development, and Conservation in the New World Tropics (taught in Spanish)

PCNSCI 250 Science and Cultural Issues: The Immune System

PCNSCI 342 Scientific Change

PCSSCI 350 section entitled "Exploring the Boundary between Science and Religion"

the Humanities"

HISTORY

285 Science, Technology and Society: 1940 to the Present

GI

110 Introduction to Information Studies

513 Women and Information Technology

ISOC

210 Introduction to Information Studies

IS

157 Energy, Environment and the City

WOMENSTD

180 Special Topics, section entitled "Women and Information Technology"

CAAS

355 Health and Illness in African Worlds

HISTORY

284 Sickness and Health in Society, 1492 to Present

355 Health and Illness in African Worlds

MEDCARE

475 Introduction to Medical Sociology

SOC

475 Introduction to Medical Sociology

WOMENSTD

224 Anthropology of Childbirth

Residential College STS Program

section entitled
"Science, Technology
and Defining the
Human"

366 American
Science, American
Culture

367 Human
Cognition section
entitled "Human
Nature and the
Sciences"

Residential
College STS
Program

RCIDIV 330
Information
Technology and
Global Politics

RCIDIV 410
Perspectives on
High
Technology
Society

RCIDIV 450
Science and
Social
Responsibility

RCISCI 200
Energy,
Environment,
and the City

RCISCI 270
Law
Biotechnology
and
Ethical
Perspectives

RCISCI 419
Renewable
Energy Systems

RCISCI 421
Energy
Policy and
Culture

RCISCI 462

RCNSCI 260
Science and
Societal
Issues,
section
entitled
"From
Shamans to
Cyborgs:
Socio-
Cultural
Studies of
Health,
Illness, and
the
Biomedical
Sciences"
and other
topics as
appropriate.

History of Time

C. One research course or seminar at the 300- or 400-level, in the student's chosen focus cluster, chosen in consultation with and approved by the advisor. The research course or seminar will normally be completed in the student's junior or senior year. To be approved for this requirement, a course must include a major research project (typically a long term paper) or a significant self-study component.

Advanced SIS Research Courses and Seminars

| SUBJECT | Level | Research Seminar |
|---------|------------------|--|
| SCIENCE | Technology | 338 Food, Land, and Society |
| ENVIRON | Science | 334 Science and Politics |
| BIOLOGY | Medicine Science | 396-397 Colloquium, section subtitled "Health and Medicine in US Culture (1945-1975) and other examples of appropriate |
| HISTORY | Technology | 401 History of Computers and Networks |
| HISTORY | Technology | 497 Technology, Globalism, and Development |
| HONORS | Medicine Science | 370 (section subtitled "The History of Evidence in Forensic") |
| PHYSICS | AP | 481 Physics and National Science Policy |
| RCORE | - | 405 Senior Independent Study (taken with a member of the SIS Program core group) |
| RCEDS | Food | 338 Food, Land, and Society |
| RCNSCI | Science | 334 Science and Politics |
| RCSSCI | Technology | 374 Race, Gender and Empire in the Nuclear Age |
| RCSSCI | Technology | 401 History of Computers and Networks |

RCSSCI
 Department of
 History
 488 Technology,
 Colonialism, and
 Development

D. Science/Technology/Medicine Cognate (lab based). Students electing this academic minor must complete one cognate, consisting of a laboratory-based course in a natural science, computer science, or engineering. This cognate may count toward the LS&A distribution requirement (if it is approved for that requirement). Ideally, this course should relate to the student's chosen focus cluster.

Content / Additional Information



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History of Science and Technology

Program in History of Science and Technology

College of Liberal Arts (CLA) : [Catalog](#) [Web Site](#) [Advising](#)

Minor Only

Courses for this minor address the history of science and technology, including the cultural and social contexts of their development.

Requirements

Students take at least 14 credits of 3xxx-5xxx HSci courses; at least 3 of these credits must be at or above 4xxx. Not more than 25 percent of the total 3xxx-5xxx credits in the minor program may consist of directed study, directed instruction, or independent study credits. All courses in the minor must be completed with a grade of C- or better.



Courses—For course descriptions, see [University courses](#).

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What is STS?

Science, Technology and Society is an interdisciplinary concentration in the College of Liberal Arts. Our goal is to explore the social impacts of rapid scientific and technological change by integrating approaches from the liberal arts, social sciences, and humanities with developments in science and technology.

Key areas of study for STS include:

- Nanotechnology
- Gaming
- Collaborative work and work-life
- Education
- Bio-health
- Computer-mediated communication

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APPENDIX E:
Program Concurrence Forms

The Ohio State University
Colleges of the Arts and Sciences Program Concurrence Form

38

The purpose of this form is to provide a simple system of obtaining departmental and college reactions to proposed development of and changes to academic programs. A letter may be substituted for this form.

Academic units initiating a request which requires such a reaction should complete Section A of this form and send a copy of the form and the programmatic proposal to each of the academic units that might have related interests in the program. Initiating units should allow at least two weeks for responses.

Academic units receiving this form should respond to Section B and return the form to the initiating unit. Overlap of course content and other problems should be resolved by the academic units before forwarding this form and all other accompanying documentation to the College of the Arts and Sciences Curriculum Office.

A. Information from the academic unit *initiating* the request

The Colleges of the Arts and Sciences 4/5/05

 Initiating Academic Unit Date

Science, Technology, and Society

 Program Title

Minor Undergraduate

 Program Type (Major or Major Track/Minor or Minor Track/Certificate) Level

Type of Request (Circle): New Program Program Change

School of Allied Medical Professions

 Academic unit asked to review the request

April 20, 2005

 Date response is needed

B. Information from the academic unit *reviewing* the request

The academic unit **supports** the proposal.

The academic unit **does not support** the proposal. (Comments are **required** if the unit does not support the proposal.)

Attach your comments.

Signatures

1. Academic Unit Undergraduate Studies Committee Chair Printed Name Date

2. Academic Unit Graduate Studies Committee Chair Printed Name Date

3. Academic Unit Chair/Director Printed Name Date

Stephan Wilson *Stephan Wilson* 4/13/05

The Ohio State University
Colleges of the Arts and Sciences Program Concurrence Form

39

The purpose of this form is to provide a simple system of obtaining departmental and college reactions to proposed development of and changes to academic programs. A letter may be substituted for this form.

Academic units initiating a request which requires such a reaction should complete Section A of this form and send a copy of the form and the programmatic proposal to each of the academic units that might have related interests in the program. Initiating units should allow at least two weeks for responses.

Academic units receiving this form should respond to Section B and return the form to the initiating unit. Overlap of course content and other problems should be resolved by the academic units before forwarding this form and all other accompanying documentation to the College of the Arts and Sciences Curriculum Office.

A. Information from the academic unit *initiating* the request

The Colleges of the Arts and Sciences 4/5/05

 Initiating Academic Unit Date

Science, Technology, and Society

 Program Title

Minor Undergraduate

 Program Type (Major or Major Track/Minor or Minor Track/Certificate) Level

Type of Request (Circle): New Program Program Change

Department of Anthropology

 Academic unit asked to review the request

April 20, 2005

 Date response is needed

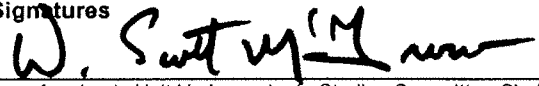
B. Information from the academic unit *reviewing* the request

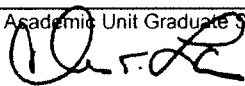
The academic unit **supports** the proposal.

The academic unit **does not support** the proposal. (Comments are **required** if the unit does not support the proposal.)

Attach your comments.

Signatures

 4/11/05
 1. Academic Unit Undergraduate Studies Committee Chair Printed Name Date

 4/10/05
 2. Academic Unit Graduate Studies Committee Chair Printed Name Date
 3. Academic Unit Chair/Director Printed Name Date

**The Ohio State University
Colleges of the Arts and Sciences Program Concurrence Form**

40

The purpose of this form is to provide a simple system of obtaining departmental and college reactions to proposed development of and changes to academic programs. A letter may be substituted for this form.

Academic units initiating a request which requires such a reaction should complete Section A of this form and send a copy of the form and the programmatic proposal to each of the academic units that might have related interests in the program. Initiating units should allow at least two weeks for responses.

Academic units receiving this form should respond to Section B and return the form to the initiating unit. Overlap of course content and other problems should be resolved by the academic units before forwarding this form and all other accompanying documentation to the College of the Arts and Sciences Curriculum Office.

A. Information from the academic unit *initiating* the request

The Colleges of the Arts and Sciences 4/5/05

 Initiating Academic Unit Date

Science, Technology, and Society

 Program Title

Minor Undergraduate

 Program Type (Major or Major Track/Minor or Minor Track/Certificate) Level

Type of Request (Circle): New Program Program Change

School of Communication

 Academic unit asked to review the request

April 20, 2005

 Date response is needed

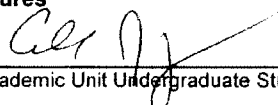

B. Information from the academic unit *reviewing* the request

The academic unit **supports** the proposal.

The academic unit **does not support** the proposal. (Comments are **required** if the unit does not support the proposal.)

Attach your comments.

Signatures

1.  

 1. Academic Unit Undergraduate Studies Committee Chair Printed Name Date

2. _____
 2. Academic Unit Graduate Studies Committee Chair Printed Name Date

3. _____
 3. Academic Unit Chair/Director Printed Name Date

The Ohio State University
Colleges of the Arts and Sciences Program Concurrence Form

41

The purpose of this form is to provide a simple system of obtaining departmental and college reactions to proposed development of and changes to academic programs. A letter may be substituted for this form.

Academic units initiating a request which requires such a reaction should complete Section A of this form and send a copy of the form and the programmatic proposal to each of the academic units that might have related interests in the program. Initiating units should allow at least two weeks for responses.

Academic units receiving this form should respond to Section B and return the form to the initiating unit. Overlap of course content and other problems should be resolved by the academic units before forwarding this form and all other accompanying documentation to the College of the Arts and Sciences Curriculum Office.

A. Information from the academic unit *initiating* the request

The Colleges of the Arts and Sciences 4/6/05
 Initiating Academic Unit Date

Science, Technology, and Society
 Program Title

Minor Undergraduate
 Program Type (Major or Major Track/Minor or Minor Track/Certificate) Level

Type of Request (Circle): New Program Program Change

Comparative Studies
 Academic unit asked to review the request

April 20, 2005
 Date response is needed

B. Information from the academic unit *reviewing* the request

 X The academic unit **supports** the proposal.

 The academic unit **does not support** the proposal. (Comments are **required** if the unit does not support the proposal.)

Attach your comments.

Signatures

| | | |
|--|--------------|---------|
| 1. Academic Unit Undergraduate Studies Committee Chair | Printed Name | Date |
| 2. Academic Unit Graduate Studies Committee Chair | Printed Name | Date |
| | DAVID G HORN | 4/24/05 |
| 3. Academic Unit Chair/Director | Printed Name | Date |

The Ohio State University
Colleges of the Arts and Sciences Program Concurrence Form

42

The purpose of this form is to provide a simple system of obtaining departmental and college reactions to proposed development of and changes to academic programs. A letter may be substituted for this form.

Academic units initiating a request which requires such a reaction should complete Section A of this form and send a copy of the form and the programmatic proposal to each of the academic units that might have related interests in the program. Initiating units should allow at least two weeks for responses.

Academic units receiving this form should respond to Section B and return the form to the initiating unit. Overlap of course content and other problems should be resolved by the academic units before forwarding this form and all other accompanying documentation to the College of the Arts and Sciences Curriculum Office.

A. Information from the academic unit *initiating* the request

The Colleges of the Arts and Sciences 4/5/05

Initiating Academic Unit Date

Science, Technology, and Society

Program Title

Minor Undergraduate

Program Type (Major or Major Track/Minor or Minor Track/Certificate) Level

Type of Request (Circle): New Program Program Change

Department of Classics

Academic unit asked to review the request

April 20, 2005

Date response is needed

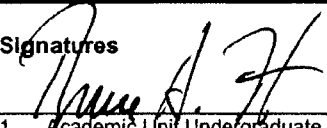

B. Information from the academic unit *reviewing* the request

The academic unit **supports** the proposal.

 The academic unit **does not support** the proposal. (Comments are **required** if the unit does not support the proposal.)

Attach your comments.

Signatures

| | | |
|---|---------------|---------|
|  | Bruce Heiden | 4/28/05 |
| 1. Academic Unit Undergraduate Studies Committee Chair | Printed Name | Date |
| | | |
|  | David E. Hahn | 4/27/05 |
| 3. Academic Unit Chair/Director | Printed Name | Date |

The Ohio State University
Colleges of the Arts and Sciences Program Concurrence Form

43

The purpose of this form is to provide a simple system of obtaining departmental and college reactions to proposed development of and changes to academic programs. A letter may be substituted for this form.

Academic units initiating a request which requires such a reaction should complete Section A of this form and send a copy of the form and the programmatic proposal to each of the academic units that might have related interests in the program. Initiating units should allow at least two weeks for responses.

Academic units receiving this form should respond to Section B and return the form to the initiating unit. Overlap of course content and other problems should be resolved by the academic units before forwarding this form and all other accompanying documentation to the College of the Arts and Sciences Curriculum Office.

A. Information from the academic unit *initiating* the request

The Colleges of the Arts and Sciences 4/5/05

 Initiating Academic Unit Date

Science, Technology, and Society

 Program Title

Minor Undergraduate

 Program Type (Major or Major Track/Minor or Minor Track/Certificate) Level

Type of Request (Circle): New Program Program Change

Department of Entomology

 Academic unit asked to review the request

April 20, 2005

 Date response is needed

B. Information from the academic unit *reviewing* the request

The academic unit **supports** the proposal.

The academic unit **does not support** the proposal. (Comments are **required** if the unit does not support the proposal.)

Attach your comments.

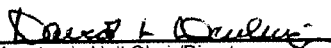
Signatures

1. Academic Unit Undergraduate Studies Committee Chair Date

 Printed Name

2. Academic Unit Graduate Studies Committee Chair Date

 Printed Name

3. Academic Unit Chair/Director Date
 6. April 2005

 Printed Name

The Ohio State University
Colleges of the Arts and Sciences Program Concurrence Form

44

The purpose of this form is to provide a simple system of obtaining departmental and college reactions to proposed development of and changes to academic programs. A letter may be substituted for this form.

Academic units initiating a request which requires such a reaction should complete Section A of this form and send a copy of the form and the programmatic proposal to each of the academic units that might have related interests in the program. Initiating units should allow at least two weeks for responses.

Academic units receiving this form should respond to Section B and return the form to the initiating unit. Overlap of course content and other problems should be resolved by the academic units before forwarding this form and all other accompanying documentation to the College of the Arts and Sciences Curriculum Office.

A. Information from the academic unit *initiating* the request

The Colleges of the Arts and Sciences 4/5/05

 Initiating Academic Unit Date

Science, Technology, and Society

 Program Title

Minor Undergraduate

 Program Type (Major or Major Track/Minor or Minor Track/Certificate) Level

Type of Request (Circle): New Program Program Change

College of Food, Agric, + Env. Sciences

 Academic unit asked to review the request

April 20, 2005

 Date response is needed

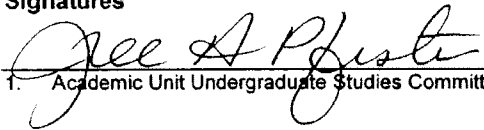
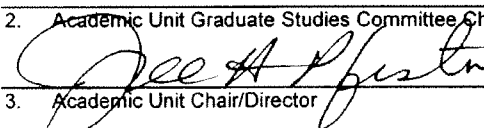
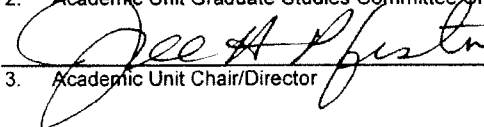
B. Information from the academic unit *reviewing* the request

The academic unit **supports** the proposal.

The academic unit **does not support** the proposal. (Comments are **required** if the unit does not support the proposal.)

Attach your comments.

Signatures

| | | | |
|----|---|-----------------|---------|
| 1. |  | Jill A. Pfister | 4-11-05 |
| | Academic Unit Undergraduate Studies Committee Chair | Printed Name | Date |
| 2. |  | Jill A. Pfister | 4-11-05 |
| | Academic Unit Graduate Studies Committee Chair | Printed Name | Date |
| 3. |  | Jill A. Pfister | 4-11-05 |
| | Academic Unit Chair/Director | Printed Name | Date |

**The Ohio State University
Colleges of the Arts and Sciences Program Concurrence Form**

45

The purpose of this form is to provide a simple system of obtaining departmental and college reactions to proposed development of and changes to academic programs. A letter may be substituted for this form.

Academic units initiating a request which requires such a reaction should complete Section A of this form and send a copy of the form and the programmatic proposal to each of the academic units that might have related interests in the program. Initiating units should allow at least two weeks for responses.

Academic units receiving this form should respond to Section B and return the form to the initiating unit. Overlap of course content and other problems should be resolved by the academic units before forwarding this form and all other accompanying documentation to the College of the Arts and Sciences Curriculum Office.

A. Information from the academic unit *initiating* the request

The Colleges of the Arts and Sciences 4/5/05
Initiating Academic Unit Date

Science, Technology, and Society
Program Title

Minor Undergraduate
Program Type (Major or Major Track/Minor or Minor Track/Certificate) Level

Type of Request (Circle): New Program Program Change

Department of Psychology
Academic unit asked to review the request

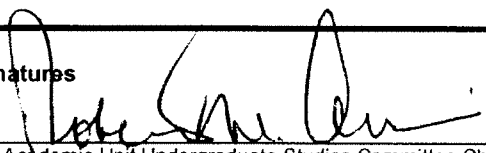

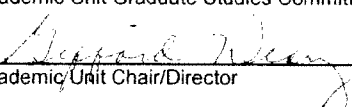
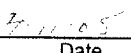
April 20, 2005
Date response is needed

B. Information from the academic unit *reviewing* the request

The academic unit **supports** the proposal.

The academic unit **does not support** the proposal. (Comments are **required** if the unit does not support the proposal.)

Attach your comments.

| | | | |
|--|---|---------------|---|
| Signatures |  | | |
| 1. Academic Unit Undergraduate Studies Committee Chair | Robert Arkin | |  |
| | Printed Name | | Date |
| 2. Academic Unit Graduate Studies Committee Chair | | | |
| | | | |
| 3. Academic Unit Chair/Director |  | Gifford Weary |  |
| | Printed Name | | Date |

The Ohio State University
Colleges of the Arts and Sciences Program Concurrence Form

46

The purpose of this form is to provide a simple system of obtaining departmental and college reactions to proposed development of and changes to academic programs. A letter may be substituted for this form.

Academic units initiating a request which requires such a reaction should complete Section A of this form and send a copy of the form and the programmatic proposal to each of the academic units that might have related interests in the program. Initiating units should allow at least two weeks for responses.

Academic units receiving this form should respond to Section B and return the form to the initiating unit. Overlap of course content and other problems should be resolved by the academic units before forwarding this form and all other accompanying documentation to the College of the Arts and Sciences Curriculum Office.

A. Information from the academic unit *initiating* the request

The Colleges of the Arts and Sciences 4/5/05

 Initiating Academic Unit Date

Science, Technology, and Society

 Program Title

Minor Undergraduate

 Program Type (Major or Major Track/Minor or Minor Track/Certificate) Level

Type of Request (Circle): New Program Program Change

Department of Sociology

 Academic unit asked to review the request

April 20, 2005


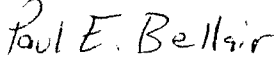
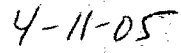
 Date response is needed

B. Information from the academic unit *reviewing* the request

The academic unit **supports** the proposal. *See attached suggestions/conditions.*

The academic unit **does not support** the proposal. (Comments are **required** if the unit does not support the proposal.)

Attach your comments.

| | | | |
|--|---|--|---|
| Signatures |  |  |  |
| 1. Academic Unit Undergraduate Studies Committee Chair | Printed Name | Printed Name | Date |
| 2. Academic Unit Graduate Studies Committee Chair | Printed Name | Printed Name | Date |
| 3. Academic Unit Chair/Director | Printed Name | Printed Name | Date |

Comments on Science, Technology, and Society from Sociology

4/14/05

We concur with the minor. However, we think there are additional sociology courses that are directly relevant to the objectives of the minor and should be added to the list of electives: Soc 464 "Work, Employment, and Society," Soc 629 "Sociology of Health," and Soc 630 "Medical Sociology." We also have a course in development, Soc 460 "Environmental Sociology", that should be added as an elective. Please add Professor Kristi Williams to the list of faculty interested in the minor (appendix A).

The Ohio State University
Colleges of the Arts and Sciences Program Concurrence Form

48

The purpose of this form is to provide a simple system of obtaining departmental and college reactions to proposed development of and changes to academic programs. A letter may be substituted for this form.

Academic units initiating a request which requires such a reaction should complete Section A of this form and send a copy of the form and the programmatic proposal to each of the academic units that might have related interests in the program. Initiating units should allow at least two weeks for responses.

Academic units receiving this form should respond to Section B and return the form to the initiating unit. Overlap of course content and other problems should be resolved by the academic units before forwarding this form and all other accompanying documentation to the College of the Arts and Sciences Curriculum Office.

A. Information from the academic unit *initiating* the request

The Colleges of the Arts and Sciences 4/5/05
 Initiating Academic Unit Date

Science, Technology, and Society
 Program Title

Minor Undergraduate
 Program Type (Major or Major Track/Minor or Minor Track/Certificate) Level

Type of Request (Circle): New Program Program Change

Undergraduate International Studies Program
 Academic unit asked to review the request

April 20, 2005
 Date response is needed

B. Information from the academic unit *reviewing* the request

The academic unit **supports** the proposal.

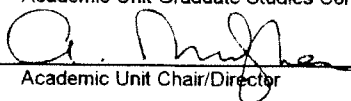
The academic unit **does not support** the proposal. (Comments are **required** if the unit does not support the proposal.)

Attach your comments.

Signatures

1.  ANTHONY MUCHAW 4/23/05
 Academic Unit Undergraduate Studies Committee Chair Printed Name Date

2. _____ Printed Name Date

3.  ANTHONY MUCHAW 4/23/05
 Academic Unit Chair/Director Printed Name Date