

H&SS Interdepartmental Minors

H&SS interdepartmental minors are programs whose content and components span two or more academic departments in the humanities, behavioral sciences, and social sciences to form coherent patterns of study.

A number of interdepartmental minors are offered by H&SS, and are, in general, available to all Carnegie Mellon undergraduate students. As well, there are numerous other minors offered by other colleges in the university that are generally available to H&SS students. The full list of minors available to Carnegie Mellon students is located in the catalog index under "Minors."

Completion of the requirements for any of these minors is noted on the final transcript and diploma.

To declare an H&SS interdepartmental minor, students should contact the H&SS Academic Advisory Center (AAC) and the faculty advisor for that minor. Progress is monitored through the faculty advisor and completion of the minor through the H&SS AAC.

To discuss the possibilities of declaring other non-H&SS minors contact the advisor listed for that particular minor.

In general, unless noted, no course taken to fulfill requirements for these interdepartmental minors may be applied toward any other requirements for a major(s) or minor(s).

The Minor in African and African American Studies

Edda L. Fields-Black, Faculty Advisor
Undergraduate Advisor: Naum Kats
Office: Baker Hall 240

Mission

The African and African American Studies minor will expose students to the following regions: sub-Saharan Africa, the Americas, and the Caribbean. Broad geographic coverage and a comparative framework encourage students to make connections between Africa and the African Diaspora, as well as among Diasporan communities. The minor offers undergraduate students the opportunity to undertake an empirical and theoretical examination of the cultural, political, social, and historical experiences of Africans and people of African descent. This unique minor brings together departments and colleges within the university and allows students to develop analytical skills particular to the arts, humanities, social sciences, public policy, and management. The African and African American Studies minor is also designed to allow students a considerable degree of freedom in their choice of electives and independent research projects, including opportunities to study and conduct research in a relevant foreign language.

Requirements

- The minor is composed of 54 units — two core courses and four elective courses.
- The elective courses must include one project course.
- Students may take an additional two core courses as electives, but not more than four total courses.
- Students must take courses in at least two of the four regions (African, African American, Latin American, and the Caribbean) between their core and elective courses.

Core Courses (18 units)

African

- 79-356 Introduction to African History I: Earliest Times to the Origin of the Slave Trade
79-258 Introduction to African History II: 18th Century to Neo-Colonialism

African-American

- 76-332 African-American Literature in the 20th and 21st Century
79-241 African-American History I
79-242 African-American History II

Caribbean

- 79-253 The Development of Caribbean Culture

Elective Courses (36 units)

African

- 79-162 Freshman Seminar: 'Slavery' and 'Freedom' in African History?
79-267 Pre-Colonial West African History: 1100 to 1800
79-268 From the Local to the Global: Globalization in East African History
79-294 The Making of African Diaspora in the New World *
79-301 African Entrepreneurs / Entrepreneurs in Africa: Past, Present and Future *
79-317 Historical Memory and Historical Sources: Reconstructing Africa's Unwritten Past *
82-304 The Francophone World **
88-370 African Politics

African-American

- 60-391 Special Topic: Hip Hop and Contemporary Art *
57-480 History of Black American Music *
76-144 Freshman Seminar: The War Against Cliché
76-332 Zora Neale Hurston: In and Out of Context
79-158 Freshman Seminar: Slavery and Emancipation in the Americas
79-286 African Americans in Pittsburgh
79-306 African American Urban History
79-359 History of African American Families *
79-382 African-American Women in US History *

Caribbean

- 76-335 Black' in the Union Jack *
79-294 The Making of African Diaspora in the New World*
79-297 Freedom Bound: Slavery/Emancipation in Brazil & the Caribbean, 1789-1940
79-389 Topics in Anthropology: Caribbean Culture
82-188 Freshman Seminar: The Uses and Abuses of Haiti
82-304 The Francophone World **
82-451 Studies in Latin American Literature & Culture – Cuba: Between Empire and a Hard Place * **
82-454 The Hispanic Caribbean: Floating Continents, Whispering Voices; Rhyme, Reason and Song **

Latin American

- 79-297 Freedom Bound: Slavery/Emancipation in Brazil & the Caribbean, 1789-1940
79-364 Art, Anthropology, and Empire

(Footnotes)

* Denotes courses that require a research paper/project and fulfill requirement for project course

** Denotes courses taught in a foreign language

The Minor in Environmental Studies

Faculty Advisor: Peter Madsen
Office: Baker Hall 161F

Human activities can have large-scale and long-term consequences for environmental quality. The thoughtful analysis of these consequences is required if we desire a sustainable society. The minor in Environmental Studies is designed to provide students with the interdisciplinary background and skills necessary to understand environmental issues. It emphasizes three general areas: humanities, social sciences, and technology and natural science. The humanities emphasis concerns the ethical, legal, and historical basis of environmental concerns. The social science area concentrates on the economic and political nature of environmental problems. The technology and natural science focus includes the exploration of the biological, chemical, and physical nature of the environment and the role of technology in both problem creation and problem solution.

Curriculum

54-73 units

The minor in Environmental Studies is offered jointly by the Departments of History and Social and Decision Sciences, with participation by selected departments from the Mellon College of Science and the Carnegie Institute of Technology. The minor requires that students take Biology and Chemistry in the Mellon College of Science or approved environmentally-related science courses at the University of Pittsburgh. In addition, minors are required to complete two required core courses, three intermediate (distributional) courses spread across at least two of the areas of emphasis, and one advanced course. The advanced course requirement includes either pre-approved sections of Policy Analysis III or pre-approved sections of the History and Policy Project Course. It is important for students to work closely with the faculty advisor for the minor in order to select the proper mix of courses to fulfill requirements.

With the exception of the minor's science prerequisites, courses taken to fulfill requirements in other major or minor programs may not be applied to the Environmental Studies minor requirements (and vice versa). In the case of the minor's "Advanced Course" requirement, if one of the two advanced courses is being taken to fulfill a requirement for another program, it cannot also be applied to this minor requirement. If it is not possible to take the other advanced course option, the faculty minor advisor will work with the student to identify an alternative course for this requirement.

NOTE: The courses listed below are offered with at least general regularity. Participating departments may subsequently develop and offer other courses that, while not listed here, are deemed appropriate for this minor. The minor faculty advisor should be consulted (especially when the schedule of courses to be offered for a given semester becomes available) to identify such additional courses.

Science Prerequisites* 19 units

03-121 Modern Biology
09-105 Modern Chemistry I or approved environmentally-related science courses (equivalent to at least 18 Carnegie Mellon units) at the University of Pittsburgh (see faculty minor advisor)

*These science courses may double count with other major and minor requirements.

Required Courses 18 units

66-210 Science and Technology for the Environment
80-244 Management, Environment, and Ethics

Intermediate (Distributional) Requirements 27 units

Complete three courses in at least two of these areas: Science and Technology, Social Science, and Humanities. Only one of the three courses can be an introductory course (as indicated below by an asterisk).

Science and Technology Area

12-100 Introduction to Civil and Environmental Engineering*
12-655 Water Quality Engineering
12-651 Air Quality Engineering
19-101 Introduction to Engineering and Public Policy*
19-222/223 Sustainability (6 units)
19-321 Environmental Management (6 units)
19-321 Law and Technology
19-422 Radiation, Health, and Policy
19-448 Science, Technology and Ethics

24-297 Energy-Environmental Systems
42-424 Biological Transport

Social Sciences Area

73-357 Regulation: Theory & Policy
73-358 Economics of the Environment and Natural Resources
88-220 Policy Analysis I
88-221 Policy Analysis II
88-425 Politics of Economic Deregulation

Humanities Area

76-319 Environmental Rhetoric
79-346 International Environmental Law and Policy
79-384 Medicine and Society

Advanced Course (minimum) 9 units

Both courses listed in this category have prerequisites or, as an alternative, require instructor approval for entry.

88-222 Policy Analysis III (pre-approved sections)
or
79-410 History and Policy Project Course (pre-approved sections)

The Minor in European Studies

Faculty Advisor: Beryl Schlossman, Department of Modern Languages
Office: Porter Hall 125A

Offered jointly by Modern Languages and History, the Minor in European Studies is a unique interdisciplinary program that seeks to develop and enhance students' understanding of European societies and cultures. It aims to train students in literature and language, cultural history and the arts, as well as related areas of professional opportunity. It offers substantive knowledge of Western European society through two approaches. First, it provides a foundation in one of the continental Western European languages. Second, it encourages comparative inquiry across boundaries of time, nation, and scholarly discipline.

Curriculum

54 units

Offered jointly by the Departments of Modern Languages and History.

European Studies minors must take two prerequisite courses (18 units) in the same foreign language (French, Spanish, or German) or demonstrate the equivalent in language ability through the Carnegie Mellon Language Placement Test. The requirements include a minimum of 54 units of core courses. Students are encouraged to take advantage of the Study Abroad Program.

Students are urged to check with the Minor Advisor in selecting courses for this major.

I. Core Courses in Modern Languages 27 units

Language courses are to be completed in the same language: French, German, or Spanish.

Complete two courses in a 200-level language sequence*
18 units

82-2xx 200-level language course
82-2xx 200-level language course

*Students who place out of 200-level language courses must take at least two 300-level courses or a combination of 300 and 400 level language courses.

Complete one course in a 300-level language course 9 units

82-3xx 300-level language course

II. Core Courses in History 27 units

Required Course 9 units

79-207 Development of European Culture

Pre-20th Century European History 9 units

Complete one 200-level (or above) course in Pre-20th century European history.

79-2xx/3xx Pre-20th century European History course

European History 9 units

Complete one 300-level course in European history.

79-3xx European History course

The Minor in Film and Media Studies

Faculty Advisor: David Shumway
Office: Baker Hall 259

Film and the electronic media have become a crucial part of contemporary culture and society; they constitute an important tool for understanding social arrangements, historical changes, and play an increasingly important role in the development of aesthetic and cultural theory. The H&SS minor in Film and Media Studies takes an interdisciplinary approach to the study of film and other electronic media. Courses provide techniques for analyzing and criticizing film and other media, for assessing their value as historical, anthropological and social scientific data, and for understanding the aesthetic and philosophical premises of various media texts. In addition, students may take courses in the processes of filmmaking, offered through special arrangement with the Pittsburgh Filmmakers (a non-profit media arts center, operating since 1971, that provides workshops, seminars, screenings, exhibitions, and training programs in the media and photographic arts).

Courses taken to fulfill requirements for other major or minor programs may not be applied to the Film and Media Studies Minor requirements.

Curriculum 54 Units

The courses listed below are offered with at least general regularity. Participating departments may subsequently develop and offer other courses that, while not listed here, are deemed appropriate for this minor. The minor faculty advisor should be consulted (especially when the schedule of courses to be offered for a given semester becomes available) to identify such additional courses.

Introductory Course 9 Units

76-239 Introduction to Film Studies
(prerequisite for 76-439)

Required Intermediate Course 9 Units

76-339 Advanced Studies in Film and Media
(May be taken up to three times and counted for additional credit toward Intermediate Courses if topics differ)

OR

76-361 Film Festival Course

Intermediate Courses 18 Units

Complete a minimum of 18 units of course work, chosen in any combination from the following three course groups. (All courses are 9 units unless otherwise indicated).

1. Film and the Study of Society

76-238 Introduction to Media Studies
82-296 A Century of Russian Film
82-187 French Cinema

2. Film and Anthropology

79-303 Visual Anthropology

3. Filmmaking

76-269 Study of Forms: Screenwriting
FM 200 Intermediate Filmmaking (please go to CFA 100 to register for this course)

Other 200 or 300 level courses in English, History, and Modern Languages can be counted in this category when their primary topic is film and media. Please consult the minor faculty advisor.

Advanced Courses 9 Units

Complete one advanced course which concentrates on film directly or which uses it as a tool of social or cultural analysis.

FM 301 Advanced Filmmaking (please go to CFA 100 to register for this course)
76-439 Advanced Seminar in Film and Media
76-437 The American Cinema
76-438 Advanced Seminar in American Literacy and Cultural Studies
76-469 Screenwriting Workshop
82-491 Literature, Politics and Film in East Europe and Russia Today

The Minor in Gender Studies

Faculty Advisor: Kristina Straub
Office to declare minor: English, Baker Hall 259

Gender Studies is an interdisciplinary field that investigates how gender is embedded in social, cultural, and political relationships. It understands gender as a category of power that intersects with other power relations, including race, class, and sexuality. Courses allow students to develop a deeper understanding of how gender operates, and to transfer the analytical skills they acquire to other courses as well as to their personal and professional lives. The minor combines coursework in English, History, Anthropology, Psychology, Philosophy, Economics, and Modern Languages.

Courses taken to fulfill requirements in other major or minor programs may not be applied to the Gender Studies minor requirements (and vice versa).

Curriculum 54 units

The courses listed below are offered with at least general regularity. Participating departments may subsequently develop and offer other courses that, while not listed here, are deemed appropriate for this minor. The minor faculty advisor should be consulted for approval.

Required Introductory Courses 18 units

Complete one of the following (9 units):
76-241 Introduction to Gender Studies
79-234 Body Politics: Women and Health in America

and

79-379 Women in America

Elective Intermediate Courses 27 units

73-340 Labor Economics
76-241 Introduction to Gender Studies*
76-245 Shakespeare and the Genres
76-330 Medieval Literature: Women's Lives, Men's Lives
76-333 Histories of Sexualities
76-353 Advanced Gender Studies
79-209 Theory and Practice in Anthropology
79-234 Body Politics: Women and Health in America*
79-236 18th Century China through Literature
79-253 Development of Caribbean Culture
79-260 Mayan America
79-270 Chinese Culture and Society
79-284 History of Gender and the Family in Russia
79-294 The Making of the African Diaspora in the New World
79-308 Politics and Culture of Memory
79-320 Women and Power
79-329 Sex, Population and Birth Control
79-348 Objects of Value
79-359 History of African American Families
79-364 Art, Anthropology and Empire
79-379 Women in America*
79-382 African American Women in US History
80-346 Value, Fact, and Policy
85-221 Principles of Child Development
85-352 Evolutionary Psychology
*if not taken as required introductory course

Elective Advanced Courses 9 units

76-435 Theories of Gender and Sexuality
76-435 Feminist Cultural Studies
79-404 Extreme Ethnography
82-407 The Arts in Society: French Modernism

82-413	The Arts in Society: Theaters of Love
82-415	Baudelaire and Modern French Culture
82-415	Writing and Viewing the Other
82-416	Twentieth Century and Contemporary French Literature and Cinema
82-451	Literature and Revolution in Central America
82-456	Madres, machos y más: género y sexualidad en América Latina
85-446	Psychology of Gender

As an alternative, in extenuating circumstances, students may substitute another 9-unit course from the "Intermediate Course" list above with the approval of the minor faculty advisor. Students may also take more than 9 units from the "Advanced Course" list to count for the 54 unit total. For information about additional course offerings, contact Kristina Straub, ks3t@andrew.cmu.edu, 268-6458.

The Minor in Global Systems and Management

Faculty Advisor: Stephen Pajewski
Office: PH 100B

This minor is intended for students wishing to develop skills essential for participating in emerging opportunities in global business systems, systems development, product development and global project management. The minor exposes students to contemporary issues and practices facing organizations, managers and individuals working on a global scale across political, cultural and temporal boundaries. The minor presents an opportunity for students to learn about being part of a global organization that has optimized the geographic locations for completing all its work. Graduates across all disciplines are increasingly likely to find themselves working as part of a global development team on a wide variety of business, consumer, and intellectual products and services. Students will learn about global project management, outsourcing and cross-cultural communications from theoretical and practical viewpoints. An organized elective structure enables students to tailor the minor reflect their specific interests.

Curriculum 54 units

The Minor in Global Systems and Management is offered jointly across the departments and programs of the College of Humanities and Social Sciences with participation from the Tepper School of Business. The minor is administered by the H&SS Information Systems program. The minor requires that students complete a series of three core courses. The core IS courses do not require prerequisites, the other core courses have minimal prerequisites, and all are offered at least once per year. In addition, minors are required to take at least one course in Communications, one or two courses in Humanities, Heritage and Culture and one or two courses in International Management.

Students are encouraged to complete a semester of study abroad. A wide variety of courses completed at appropriate foreign institutions as part of semester abroad can be substituted for the third core course requirement (76-442, 76-483 or 85-375). The minor faculty advisor should be consulted before embarking on the semester of study abroad to identify an appropriate course or courses at the foreign institution that can be used to provide an appropriate substitute for the minor requirement.

Courses taken to fulfill requirements in other major or minor programs may not be applied to the Global Systems and Management minor.

NOTE: The courses listed below appear to be offered with at least general regularity. Participating departments may subsequently develop and offer other courses that, while not listed here, are deemed appropriate for this minor. The minor faculty advisor should be consulted (especially when the schedule of courses to be offered for a given semester becomes available) to identify such additional courses. Additionally, students may develop and submit to the faculty advisor customized plans that substantially meet the requirements of this minor while allowing the student a personally-crafted learning experience. Proposals should generally be developed no later than the sophomore year, and the minor program

started no later than junior year. Proposals will be evaluated for clarity of focus, coherence and depth in areas related to global project development and viability within the context of the College and university. Approval must be obtained prior to embarking on a customized course of study.

Required Courses 18 units
Complete three courses.

67-325 Global Systems Delivery Models (6 units)
67-326 Global Project Management (3 units)
One of the following *:
76-386 Language and Culture
76-442 Communication across Cultures
85-375 Cross Cultural Psychology

*Course may be substituted with an approved course(s) completed as part of a semester abroad. The course taken to fulfill this requirement can only be counted once toward completion of the minor.

Communications 9 units
Complete one course.

76-270 Writing for the Professions
76-318 Communicating in the Global Marketplace
76-386 Language and Culture
76-442 Communication across Cultures

Humanities, Heritage and Culture 9-18 units
Complete courses totaling 9-18 units (generally 1 or 2 courses).

79-270 Chinese Culture and Society
79-271 Modern China
79-288 Bananas, Baseball, and Borders: A History of Latin America-US Relations
79-289 Development and Democracy in Latin America
79-290 Between Revolutions: The Development of Modern Latin America
79-350 Theories of International Relations
79-440 Perspectives on Industrial Research and Development
82-304 The Francophone World
82-323 Germany, Austria and Switzerland in the 20th Century
82-333 Introduction to Chinese Language and Culture
82-383 Introduction to Second Language Acquisition
82-433 Topics in Contemporary Culture in China
82-480 Social and Cognitive Aspects of Bilingualism
82-487 On Writing in a Second Language
85-375 Cross Cultural Psychology

International Management 9-18 units
Complete courses totaling 9-18 units (generally 1 or 2 courses).

15-502 Technology and Global Development
70-342 Managing Across Cultures
70-365 International Trade and International Law
70-430 International Management
70-480 International Marketing
73-371 International Trade and Economic Development
73-372 International Money and Finance
88-326 International Relations
88-327 Politics of Economic Development
88-352/79-346 International Environmental Law and Policy
88-359 Globalization
88-378 International Economics

The Minor in Health Care Policy and Management

Sponsored by:

H. John Heinz III School of Public Policy and Management
College of Humanities and Social Sciences
Mellon College of Science

Faculty Advisors:

Caroline Acker, College of Humanities and Social Sciences
Brenda Peyser, H. John Heinz III School of Public Policy and Management, Amy Burkert, Mellon College of Science

The face of health care is changing. The practice of medicine is being fundamentally altered by the forces of change in public policy, health care organizations and in the industry as a whole. The role of individual professionals in this industry is changing as rapidly as the industry itself. Traditional career paths have disappeared overnight to be replaced by new opportunities that require new skills. New organizations are placing new demands on their professional and medical staffs. The criteria of efficiency and financial stability are entering the domains of diagnosis and treatment.

This minor is designed to provide students considering a career in the health professions with an understanding of how these changes are likely to affect their careers. Students will become familiar with the critical policy and management issues and will begin to learn to operate effectively in the emerging health care environment. The curriculum combines economic, organizational, managerial, historical and psychological perspectives on these issues to provide a foundation for a deepened understanding of the changing structure of health care organizations and policy.

Curriculum (minimum) 60 units

Seven courses (a minimum of 60 units) are required to complete this minor. Entry into the minor requires completion of 73-100, Economics or 88-220, Policy Analysis I or the equivalent by approval.

Required Courses 33 units

Students are required to take the following courses.

79-384	Medicine and Society (9 units)
90-735	Health Economics (12 units)
90-836	Health Systems (6 units)
90-861	Health Policy I (6 units)

Elective Courses 27 units

Complete a minimum of 27 units.

Heinz School Courses

91-830	Financial Management of Health Systems
91-836	Legal Issues in Health Systems Management
91-844	Managing Quality Improvement
91-853	Health Care Information Systems
91-xxx	Health Policy II
91-862	Managed Care

Humanities and Social Sciences Courses (9 units each)

76-494	Healthcare Communications
79-335	Drug Use and Drug Policy
79-336	Epidemic Disease and Public Health
80-245	Medical Ethics
80-247	Health, Development, and Human Rights
85-241	Social Psychology
85-442	Health Psychology
85-446	The Psychology of Gender

Please note that some of these courses have prerequisites that will not count toward the completion of the requirements for this minor.

The Minor in Linguistics

Faculty Advisor: Mandy Simons

Office: Baker Hall 155E

Linguistics is the study of human language. It aims not merely to describe particular languages, but to characterize and account for the nature of language and for the human ability to learn and use it. Linguists address the phenomenon of language from a variety of perspectives. Some are concerned with the cognitive aspects of language learning, production and comprehension; some are concerned with language as a social and cultural phenomenon; others engage in the analysis of linguistic structure, some from a functional and others from a formal perspective. Some linguists are concerned with computational implementations of linguistic theory for both practical and theoretical purposes. In all cases, a central question for linguists is to understand not only the wonderful variety of the world's languages but also what these languages have in common: what it is that makes a human language human. The study of language thus contributes vitally to our understanding of human society, human culture, and human minds.

The interdepartmental Minor in Linguistics is sponsored by the departments of English, Modern Languages, Philosophy and Psychology and the Language Technologies Institute. It synthesizes the linguistics related offerings in these departments and provides students with an academic experience that reflects both the interdisciplinary character of the subject and its cross-departmental representation at CMU.

Curriculum

54 units

Linguistics Minors must complete six linguistics related courses. Of the six, three must be selected from the five core courses listed below. The remaining three courses may be selected from among any of the linguistics related courses taught in the four H&SS departments or the LTI.

Students in the minor may choose to take advantage of the full range of approaches to the study of language represented here, or may choose to focus on a particular aspect of language study. Note, however, that some of the elective courses have particular core courses as prerequisites. Students should take this into account when they select their core courses.

Core Courses

76-386	Language and Culture
80-280	Linguistic Analysis
82-383	Second Language Acquisition
85-421	Language and Thought (Psychology)
11-582	Language Technologies

Note: If more than three courses are taken from this set, the additional ones will count as electives.

Elective Courses

Students must complete three electives, of which two must be 300+ level courses. No 100 level courses are admissible as electives, with the exception of linguistics-related Freshman Seminars. A listing of possible electives is given below, but this list is not intended to be exhaustive. Other courses or seminars on linguistic topics will generally be approved for inclusion. (Students should consult with the Faculty Advisor.) Note: courses taken to fulfill requirements in other major or minor programs may not be applied to the Linguistics Minor requirements (and vice versa).

76-385	Introduction to Discourse Analysis
76-389	Grammar of Standard Written English
76-411	Events
76-451	Topics in Language Study*
80-281	Language and Thought (Philosophy)
80-381	Meaning in Language
80-380	Philosophy of Language
82-280	Learning about Language Learning
82-388	Understanding Second Language Fluency
82-442	Analysis of Spoken Spanish
82-480	Social and Cognitive Aspects of Bilingualism
85-354	Infant Language Development
11-511	Algorithms for Natural Language Processing
11-521	Grammars and Lexicons
11-531	Machine translation
11-541	Information Retrieval
11-552	Speech: Phonetics, Prosodics, Perception, and Synthesis

* A variety of different courses are taught under this number/title. The course may be taken more than once, as long as the topic is different each time.

The Minor in Multimedia Production

Faculty Advisor: Robert Cavalier
Office: Baker Hall 155C

Computers are increasingly being used to present information in non-traditional forms. Of special note is the use of computers for multimedia presentations in which text, graphics, video, and sound are combined, often in interactive formats.

Multimedia applications are expanding as information providers attempt to deliver their message via computers - educators and software developers develop video and graphics applications to supplement and enhance more traditional textual materials, businesses allow browsing and on-line ordering of their products, libraries allow the searching and perusal of their holdings, and organizations promote themselves on the Internet. In fact, multimedia applications on the Internet are so prevalent that World Wide Web addresses can be found throughout the traditional forms of communication - including print, television, and film - directing their audiences to additional, and presumably "enhanced," multimedia materials.

This Minor is specifically designed for undergraduate Liberal Arts majors (including BHA Majors). Its objective is to introduce students in these areas of study to the philosophical and technical aspects of Multimedia Authoring. The three core courses of the Minor will provide Liberal Arts students with the major issues and basic skills necessary to understand and appreciate this new aspect of communication.

Students interested in pursuing this minor must consult the faculty advisor for this minor prior to registering for any of the core courses.

Curriculum 59 units

Required Courses 45 units

15-111	Introductory Intermediate Programming (10 units)
76-270	Writing in the Professions (9 units)
76-382	Multimedia Authoring I (9 units)
76-383	Multimedia Authoring II (9 units)
80-291	Issues in Multimedia Authoring (9 units)

Elective Courses 18 units

In general, relevant electives for the Minor in Multimedia Production will be similar to the core courses and electives of the following University Programs:

The Human-Computer Interaction Major

The Communication and Design Core of the Information Systems Major. The GSIA track in Graphic Communications Management, The Graduate Program in Entertainment Technology

With the advice and approval of the minor faculty advisor, students may propose courses other than those listed, provided they can show that these courses will enhance their knowledge of issues relating to multimedia production.

The Minor in Religious Studies

Faculty Advisor: David Miller,
Undergraduate Advisor: Naum Kats
Office: Baker Hall 240

The Religious Studies minor provides the student with a range of intellectual tools with which to think about religious ideas, behaviors and institutions. A further objective is to enable the student to build a base of knowledge which extends beyond any one particular religious tradition. The minor consists of six courses, totaling at least 54 units.

No more than 9 units of courses in the minor can be double-counted to fulfill requirements for any other minor or major.

Curriculum 54 units

In addition to the general education requirements of the student's college and the requirements of the student's major, Religious Studies minors must satisfy the requirements as outlined below.

The "required" course listed below is offered regularly; the "distribution" and "elective" courses are offered with at least general regularity. Participating departments may subsequently develop and offer other courses that, while not listed here, are deemed appropriate for this minor. The minor faculty advisor should be

consulted (especially when the schedule of courses to be offered for a given semester becomes available) to identify such additional courses.

Core Course 9 units

This required course introduces a variety of methods of religious inquiry such as philosophy of religion, sociological and behavioral approaches to religion, historical analysis of religious subject matter, literary and critical analysis of religious texts, theological modes of thought, and anthropological treatments of religion.

79-259 Introduction to Religion

Distribution Requirements 18 units

Complete two courses that are not from the same disciplinary approaches. Examples are listed below. Please see the faculty advisor for other options. Each of the courses that may be chosen to fulfill this requirement takes a specific disciplinary approach to religion and deals with subject matter which is not specific to one religious tradition.

Historical Approaches

79-222	Religion and American Society
79-225	Religions of China
79-397	Religion and Politics in the Middle East

Philosophical Approaches

80-151	God in the West
80-276	Philosophy of Religion

Textual Approaches

79-325	Art and Religion
76-330	Medieval Literary and Cultural Studies
76-331	Renaissance and Literary and Cultural Studies

Elective Courses (minimum) 27 units

Complete courses totaling at least 27 units. In addition to the Carnegie Mellon courses listed below, electives may be chosen from among any of the courses listed above under "Distribution requirements" that were not used to fulfill that requirement.

66-301	Science and Christianity
79-219	The Holocaust in Historical Perspective
79-220	Early Christianity
79-221	Christendom Divided: The Protestant and Catholic Reformations, 1450-1650
79-251	Flesh and Spirit: Early Modern Europe, 1400-1800
79-275	Religious Identities and Religious Conflicts in Nineteenth-Century Europe

Students may cross-register for relevant electives at other Pittsburgh institutions with the permission of the faculty advisor for the religious studies minor.

The Minor in Russian Studies

Faculty Advisor: Charlene Castellano,
Department of Modern Languages
Main Office: Baker Hall 160

The relationship between Russia and the West has been central to the history of the twentieth century, and it continues to influence politics throughout the globe. The rise in fascism, World War II, the Cold War, revolutions in Cuba, Korea, China and Vietnam, and de-colonization struggles in Africa cannot be understood apart from Russian influence. The study of Russia is thus central to our understanding of the present world order and international relations. The disintegration of the USSR, the emergence of more democratic forms of government, and the development of new "free market" economies have led not only to greater openness and stronger ties with the West, but also to a host of new questions in the areas of business, science, technology, national defense and international security. The end of the Cold War allows for exploration of new issues in fascinating ways that were formerly forbidden. The proliferation of exchange programs, the increased accessibility of libraries, archives, and information, and the development of a free press all open untried and exciting possibilities and opportunities for students and scholars. Young, talented people with a broadly-based knowledge of Russian history, language and culture are needed to fill jobs in international law, education, diplomacy, business, journalism and computing, as well as in economic, scientific and technical consulting. The Russian Studies Program aims to give students a solid background in the fields of Russian history,

language, culture and politics, by offering a major and minor specialization to interested students.

Russian Studies, a B.A. Program, is jointly administered by the Departments of History and Modern Languages in the College of Humanities and Social Sciences. It is designed for students from all the Carnegie Mellon undergraduate colleges. It may be taken as either a primary major, additional major, or minor.

Russian Studies Minor 78 units

The History Curriculum 18 units

For minors, there is a two course History requirement comprised of one required course and one course selected from a list of electives.

The intermediate-level History courses are generally taken in the sophomore and junior years. They provide a substantive overview of the major events and issues in Russian history and policy.

1. Core Course(s) in History 9 units

Complete one course.

- 79-280 Russian History from the First to the Last Tsar*
79-281 Modern Russian History: From Communism to Capitalism

* Both courses are recommended.

2. Required Electives in History 9 units

Complete one course (Substitutions by advisor's permission).

- 79-282 Soviet Union in World War II: Military and Political History
79-344 Science, Technology and the Cold War

The Language and Culture Curriculum 42 units

Complete the two prerequisite courses and two intermediate courses.

3. Prerequisite Courses in Modern Languages 24 units

- 82-191 Elementary Russian I (or demonstrated equivalent)
82-192 Elementary Russian II (or demonstrated equivalent)

4. Core Courses in Modern Languages 18 units

- 82-291 Intermediate Russian I
82-292 Intermediate Russian II

Should a student enter the Russian Studies Program with a demonstrated language proficiency at any of these "Intermediate" levels, the required total of 18 units is reached by selecting from among the advanced language options appearing below in the list of "Required Electives". Advanced language options include "Advanced Russian I", "Advanced Russian II" and "Special Topics: Russian", as well as subject-oriented language supplements to existing courses (taught in English) in a variety of fields. Thus students can add a language supplement (3 units) to selected 9-unit electives, earning a total of 12 units for the language-supplemented course.

5. Required Electives 18 units

Complete two courses.

History

- 79-205 20th Century Europe: Collapse and Renewal
79-231 American Foreign Policy: 1945-Present
79-280 Russian History from the First to the Last Tsar
79-281 Modern Soviet History: From Communism to Capitalism
79-282 Soviet Union in World War II: Military and Political History
79-344 Science, Technology and the Cold War

Modern Languages

- 82-392 Advanced Russian II
82-396 The Faust Legend at Home and Abroad
82-397 Russia's Demons
82-399 Special Topics: Russian
82-491 Topics in Twentieth-Century Russian Literature
82-492 The Historical Imagination in Nineteenth-Century Russian Literature
82-493 Joseph Brodsky in Context

New courses will be added as appropriate.

6. Study Abroad

Students in both the major and minor programs are encouraged to spend a semester or summer in Russia via an approved exchange program. Many exchange programs offer instruction in Russian language, history, literature, and culture, in internationally recognized universities. They also offer travel to ancient sites and cities, visits to museums, palaces, exhibitions, and monuments, and the opportunity to live with a Russian host family. Scholarship monies are frequently available.

The Minor in Science, Technology and Society

Faculty Advisor: Jay Aronson,
Undergraduate Advisor: Naum Kats
Office: Baker Hall 240

This minor provides varied perspectives on the development and meaning of science and technology in modern society. The core courses provide for the exploration of the philosophical underpinnings, cultural and historical contexts, and economic and literary assessments of the interplay among science, technology and society. Elective courses allow students to pursue more deeply subjects and approaches that build on both core courses and students' primary majors.

Courses taken to fulfill requirements in other major or minor programs may not be applied to this minor and vice versa.

Curriculum 54 units

Core Courses 27 units

Complete one course from Area 1, two from Area 2, and 3 Electives.

Area 1. Language and Rhetoric in Science and Technology (9 units)

- 76-319 Environmental Rhetoric
76-395 Science Writing
76-476 Rhetoric of Science
51-326 Documenting the Visual

Area 2. History, Philosophy and Social Studies of Science and Technology (18 units)

- 79-230 Technology in American Society
79-256 Biology and Society: Evolution, Animal Experimentation and Eugenics
79-296 Genes, Clones, and Stem Cells: Biology and Society in the 20th Century and Beyond
79-333 History of Biomedical Research
79-342 Introduction to Science and Technology Studies
79-358 Complex Technological Systems: Past, Present, and Future
79-384 Medicine and Society
80-225 Birth of Modern Science
80-226 Revolutions in Science
80-323 Philosophy of Biology

Electives (27 units)

- 12-090 Technology and the Environment
15-502 Technology and Global Development
17-400 Electronic Voting
18-482 Telecommunications, Technology Policy & Management
19-448 Science, Technology, and Ethics
39-100 Special Topics: What is Engineering
48-448 History of Sustainable Architecture
48-572 Zero Energy Housing
66-210 Science, Technology, and the Environment
67-366 Social Issues in Computing
79-234 Body Politics: Women and Health in America
79-248 History and Theory of Property: Land and Bodies, Ideas and Information
79-263 From Soil to Oil: Energy and the Environment in the Americas
79-312 Medical Anthropology
79-329 Sex, Population and Birth Control
79-335 Drug Use and Drug Policy
79-336 Epidemic Disease and Public Health
79-344 Science, Technology, and the Cold War
79-355 The American Skyscraper: Its History and Development
79-440 Perspectives on Industrial Research and Development (cross-listed with 88-345)
79-441 Science, Technology, and Business in U.S. History
80-245 Medical Ethics
80-247 Health, Development, and Human Rights

80-258 Leibniz, Locke, and Hume
 80-341 Computers, Society, and Ethics
 85-380 In Search of Mind: The History of Psychology
 88-343 Economics of Technological Change

Electives 27 units

Complete three courses from the approved list of elective courses. Courses listed in Areas 1, 2 and 3 may also be taken as electives if not already completed for an Area requirement. For a listing of approved courses, consult the description of the Minor in Science, Technology and Society on the College of Humanities and Social Sciences' webpage (<http://www.hss.cmu.edu/index.html>), or contact the faculty advisor directly at aronson@andrew.cmu.edu.

The Minor in Sociology

Faculty Advisor, Roberto Weber
 Program Advisor, Connie Angermeier
 Office: Porter Hall 208A

The Sociology minor provides the student with a solid introduction to the central concepts in sociological theory and a grounding in the methods of empirical inquiry needed to understand societies, their histories, and how they change over time. Students choose among selected topics including social psychology, work and organizations, social networks, technology and society, medical sociology, and gender and family. Exposure to these topics will help students understand and appreciate the processes by which families, groups, and organizations form and evolve over time; by which individuals affect and are affected by the society in which they live; and by which technology and institutions shape and influence society. This background in empirical tools and social theory will strengthen students' ability to enter graduate studies in sociology, social history, social science, and organizational theory; to begin professional careers involving social analysis, network analysis, data analysis of teams, groups and organizations, social analysis within journalism, political institutions, the government; and to enter the corporate environment with a thorough understanding of organizational activity.

Curriculum 54 units

In addition to the general education requirements of the student's college and the requirements of the student's major, Sociology minors must satisfy the following requirements. The Core courses comprise 18 units of the minor. One course is taken from the Organizations cluster, and one course is taken from the Methodology cluster. The Elective courses comprise 36 units of the minor. Sociology minors should consult with the program advisor to plan a course schedule prior to registration.

NOTE: The core courses are offered regularly; the elective courses are offered with at least general regularity. Participating departments may subsequently develop and offer other courses that, while not listed here, are deemed appropriate for this minor. The program advisor should be consulted (especially when the schedule of courses to be offered for a given semester becomes available) to identify such additional courses.

No more than 9 units in the Sociology minor may be counted to fulfill any other major or minor's requirements.

Core Courses 18 units

a. Organizations

Complete one course.

70-311 Organizational Behavior
 88-260 Organizations

b. Methodology

Complete one course.

36-202 Statistical Methods
 70-208 Regression Analysis
 85-340 Research Methods in Social Psychology
 88-251 Empirical Research Methods

Elective Courses 36 units

Complete four courses from the following list. Two courses (18 units) must be taken from one category to complete the depth requirement. One course (9 units) must be taken from the other category. The remaining course (9 units) may be taken from either category. Appropriate courses offered by the Department of Sociology at the University of Pittsburgh (available during the

academic year through cross-registration) may also be included as part of this option. Contact the Sociology program advisor for more information.

1. Sociology of Gender, Family, and Culture

70-342 Managing Across Cultures
 79-270 Chinese Culture and Society
 79-284 Family and Gender in Russian History
 79-308 The Politics and Culture of Memory
 79-309 Public Policy and American Military Recruitment: Historical Perspective
 79-315 History, Memory, and Patriotism in America
 79-317 Historical Memory and Historical Sources: Reconstructing Africa's Unwritten Past
 79-320 Women and Power
 79-329 Sex Population and Birth Control
 79-332 Juvenile Delinquency: Images, Realities and Public Policy, 1800-1940
 79-338 Childhood, Education and Social Reform in American History
 79-359 History of African-American Families
 79-368 Poverty, Charity, and Welfare
 79-379 Women in American History
 79-382 African-American Women in US History
 79-384 Medicine & Society
 80-230 Ethical Theory
 80-245 Medical Ethics
 80-305 Rational Choice
 85-241 Social Psychology
 85-446 Psychology of Gender

2. Sociology of Work, Organizations, and Technology

70-332 Business, Society, and Ethics
 70-414 Technology-Based Entrepreneurship
 73-432 Economics of Education
 79-230 Technology in American Society
 80-291 Issues in Multimedia Authoring
 80-300 Minds, Machines, and Knowledge
 80-341 Computers, Society and Ethics
 88-222 Policy Analysis III
 88-341 Organizational Communication
 88-347 Complex Technological Systems
 88-371 Entrepreneurship, Technological Change, and Regulation in Theory and Practice

Note: Some courses have additional prerequisites.