



College of SOCIAL SCIENCE

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In the complex and rapidly changing world of the 21st century, the social, behavioral, and economic sciences are critical to understanding and enhancing the world around us. Scholars in the College of Social Science are diverse and dynamic intellectual leaders who seek to understand and address the myriad challenges facing our world at local and global scales through collaborative learning and responsive engagement with people and communities. Using measurement and analysis in addition to observation and definition, we conduct and apply research to address the diverse problems confronting citizens of our highly technical and increasingly globalized world.

The College of Social Science offers graduate and undergraduate courses and degree programs, research initiatives, minors, and specializations through the following units: Departments of Anthropology; Economics; Geography, Environment, and Spatial Studies; History; Human Development and Family Studies; Political Science; Psychology; and Sociology; Schools of Criminal Justice, Human Resources and Labor Relations, Planning, Design and Construction, and Social Work; Programs in Chicano/Latino Studies and Urban and Regional Planning. Other units include Women, Gender, and Social Justice (administered jointly with College of Arts and Letters); Center for Integrative Studies in Social Science; Center for Advanced Study of International Development; Center for Global Change and Earth Observations; Center for Digital Humanities and Social Sciences (MATRIX); Remote Sensing and Geographic Information Science Research and Outreach Services; Julian Samora Research Institute; Institute for Public Policy and Social Research; and the Institute of Public Utilities. The college also sponsors or co-sponsors several undergraduate minors and graduate specializations.

In cooperation with other areas of the university, the College of Social Science engages in the pursuit and application of knowledge from emerging interdisciplinary perspectives. The College collaborates with the colleges of Agriculture and Natural Resources, Arts and Letters, Business (Eli Broad), Communication Arts and Sciences, Education, Engineering, Human Medicine, and Natural Science; University Outreach and Engagement; International Studies and Programs; Michigan State Extension, Division of Children, Youth and Families; Institute for International Health; the Centers for African Studies, Asian Studies, Canadian Studies, and Latin American and Caribbean Studies; and the Center for Gender in Global Context.

UNDERGRADUATE PROGRAMS

The College of Social Science offers degree programs in its departments and schools, in the Interdisciplinary Studies in Social Science major, and the Global and Area Studies-Social Science major. A student should carefully study the catalog descriptions of these majors before choosing one. The three general types of majors in the college are described below.

A **departmental** major consists of at least 30 credits in courses recognized by the department as counting toward the major. Each departmental major is designed to provide concentrated study in a specific field; it will be complemented by courses outside the major to give breadth to a student's education.

A student majoring in one of the **schools** is introduced to principles and techniques which are basic to the subject area and then learns to apply them in specified programs of study. The mini-

SOCIAL SCIENCE Undergraduate Programs

imum number of credits required varies among programs. In each school, the major program consists of courses offered within the school and course work in complementary disciplines.

The **Interdisciplinary Studies in Social Science** major is organized around five thematic concentrations. Students select one from the following: Community Governance and Advocacy, Health and Society, International Studies, Human Capital and Society, and Liberal Studies. The **Interdisciplinary Studies in Social Science: Social Science Education** major is available for students seeking teacher certification.

The **Global and Area Studies-Social Science** major focuses on the study of global systems and processes as they are expressed in local places. Students study a world region concentration and a foreign language relevant to that region or a global theme that is important across world regions.

Majors in the college lead to Bachelor of Arts and Bachelor of Science degrees. They provide a valuable background for those interested in a wide variety of careers, as well as for those intending to pursue advanced degrees in professional or graduate school.

Minors

In addition to undergraduate major programs, the college offers several minors, which may be combined with the requirements of a student's degree program. Minors are offered in: African Studies, Anthropology, Asian Pacific American Studies, Asian Studies, Chicano/Latino Studies, Defense Studies and Leadership, Economics, Geographic Information Science, Geography, Global Studies in Social Science, Latin American and Caribbean Studies, Peace and Justice Studies, Security Management, and Sociology.

Students in Social Science may also complete a Minor in Bioethics, Humanities, and Society (see the *College of Human Medicine* section of this catalog).

Students who are enrolled in bachelor's degree programs in the college may elect the *Minor in Environmental and Sustainability Studies*. For additional information, refer to the statement on *Minor in Environmental and Sustainability Studies* in the *College of Natural Science* section of this catalog.

Freshmen

Freshmen at Michigan State University are enrolled in the Neighborhood Student Success Collaborative but may declare a major preference for a major in a department or school of the College of Social Science, the Interdisciplinary Studies in Social Science major, or the Global and Area Studies-Social Science major. Students who declare any Social Science major preference will be assigned an academic advisor in this College. Upon reaching 28 credits, sophomores may choose to declare their major in the college.

Admission to the College of Social Science

1. Completion of at least 28 credits acceptable to the college.
2. An academic record which at least meets the requirements of Academic Standing of Undergraduate Students.
3. Acceptance as a major in a program of the college. The number of students admitted to the School of Planning, Design and Construction, Urban and Regional Planning, and the School of Social Work program is limited.

Graduation Requirements for the Bachelor of Arts and Bachelor of Science Degrees

To ensure an appropriately broad and well-balanced education, all undergraduates enrolled in the College of Social Science must satisfy the following subject matter and credit distribution requirements, in addition to the graduation requirements of the university as described in the *Undergraduate Education* section of this catalog.

The following restrictions pertain to all courses taken in fulfillment of requirements for the Bachelor of Arts and Bachelor of Science degrees in the College of Social Science:

1. Courses applied to the university requirements in Integrative Studies and Mathematics may **not** also be counted toward the college graduation requirements.
2. Not more than 4 credits of independent study, internship, field experience, or practicum courses may be used to fulfill the college requirements for the Bachelor of Arts and Bachelor of Science degrees.
3. Unless otherwise noted, no courses offered by a student's major department or school may be counted toward the college requirements.
4. Only credits in courses graded on the numerical or Pass-No Grade system may be counted toward college and major requirements, i.e. courses taken in satisfaction of college and major requirements may **not** be taken on a Credit-No Credit basis.
5. Students in the Interdisciplinary Studies in Social Science: Social Science Education major are not required to complete the College of Social Science requirements for the Bachelor of Arts degree.
6. Students in the History Education major are not required to complete the College of Social Science requirements for the Bachelor of Arts degree.

I. Bachelor of Arts

All candidates must meet the following requirements:

A. SOCIAL SCIENCE REQUIREMENT

1. Complete the requirements of a major of no fewer than 30 credits with a minimum 2.0 grade-point average for courses in the major.
2. Complete a minimum of 15 credits in the following departments, schools, and programs: Anthropology, Criminal Justice, Economics, Geography, History, Human Development and Family Studies, Labor and Industrial Relations, Political Science, Psychology, Social Work, Sociology, and Urban and Regional Planning. A maximum of 4 credits of Social Science 493 or 496 may apply.

Students with majors in the department or school must meet this requirement with courses outside the major. Students in the Interdisciplinary Studies major must meet this requirement with courses outside the disciplinary cognate. A department or school may require its majors to complete specific courses to satisfy this college requirement. The courses in the College of Social Science that have been specifically designated by the Curriculum and Academic Policies Committee for the college requirement in Natural Science may be used to satisfy this requirement but may not be used to satisfy both the college requirement in Natural Science and this requirement.

B. ARTS AND LETTERS REQUIREMENT

Complete a minimum of 9 credits in the College of Arts and Letters. The following College of Education courses may also be counted toward this requirement: Counseling, Educational Psychology and Special Education (CEP) 341 American Sign Language and the Deaf Com-

munity, CEP 441A American Sign Language I, CEP 441B American Sign Language II, CEP 442A American Sign Language III, and CEP 442B American Sign Language IV. A department or school may require its majors to complete specific courses or particular subject matter areas in the College of Arts and Letters to satisfy this college requirement.

C. NATURAL SCIENCE REQUIREMENT

Complete a minimum of 6 credits in the College of Natural Science or in alternative courses selected from a list approved by the Curriculum and Academic Policies Committee. A department or school may require its majors to complete specific courses or particular subject matter areas in the College of Natural Science to satisfy this college requirement. Mathematics 1825, 100E, and 290 may **not** apply to this requirement for the Bachelor of Arts degree.

D. DISTRIBUTION REQUIREMENTS

1. Complete a minimum of 30 credits in courses numbered at the 300 level and above. Courses offered by the student's major department or school may be used to satisfy this requirement.
2. A maximum of 12 credits of independent study may be applied to the degree.
3. A maximum of 12 credits of internship, field experience, or practicum credits may be applied to the degree.
4. The total of independent study, internship, field experience, and practicum credits applied to the degree may not exceed 20 credits.

II. **Bachelor of Science**

All candidates must meet the following requirements:

A. SOCIAL SCIENCE REQUIREMENT

1. Complete the requirements of a major of no fewer than 30 credits with a minimum 2.0 grade-point average for courses in the major.
2. Complete a minimum of 9 credits in the following departments, schools, and programs: Anthropology, Criminal Justice, Economics, Geography, History, Human Development and Family Studies, Labor and Industrial Relations, Political Science, Psychology, Social Work, Sociology, and Urban and Regional Planning. A maximum of 4 credits of Social Science 493 or 496 may apply.

Students with majors in the department or school must meet this requirement with courses outside the major. Students in the Interdisciplinary Studies major must meet this requirement with courses outside the disciplinary cognate. A department or school may require its majors to complete specific courses to satisfy this college requirement. The courses in the College of Social Science that have been specifically designated by the Curriculum and Academic Policies Committee for the college requirement in Natural Science may be used to satisfy this requirement but may not be used to satisfy both the college requirement in Natural Science and this requirement.

B. ARTS AND LETTERS REQUIREMENT

Complete a minimum of 6 credits in the College of Arts and Letters. The following College of Education courses may also be counted toward this requirement: Counseling, Educational Psychology and Special Education (CEP) 341 American Sign Language and the Deaf Community, CEP 441A American Sign Language I, CEP 441B American Sign Language II, CEP 442A American Sign Language III, and CEP 442B American Sign Lan-

guage IV. A department or school may require its majors to complete specific courses or particular subject matter areas in the College of Arts and Letters to satisfy this college requirement.

C. NATURAL SCIENCE REQUIREMENT

Complete a minimum of 15 credits in relevant courses in science and mathematics as **defined by the major unit** offering the B.S. degree option. Mathematics 1825, 100E, 103, 103E, and 290 may **not** apply to this requirement for the Bachelor of Science degree.

D. DISTRIBUTION REQUIREMENTS

1. Complete a minimum of 30 credits in courses numbered at the 300 level and above. Courses offered by the student's major department or school may be used to satisfy this requirement.
2. A maximum of 12 credits of independent study may be applied to the degree.
3. A maximum of 12 credits of internship, field experience, or practicum credits may be applied to the degree.
4. The total of independent study, internship, field experience, and practicum credits applied to the degree may not exceed 20 credits.

Preprofessional Programs

Students at Michigan State University may select programs of study which satisfy the admission requirements of a professional school of their choice, such as law or medicine. Since the admission requirements to professional programs vary among schools, it is not feasible to establish a single program for each profession that satisfies the admission requirements of all professional schools. In the field of law, however, the College of Social Science has suggested programs of study that satisfy the admission requirements of most law schools. It is the student's responsibility to determine whether a proposed program meets the entrance requirements of the desired professional school.

Prelaw. Prelaw programs in the College of Social Science are available through the Department of Political Science and the Interdisciplinary Studies in Social Science Program. For additional information refer to those sections and to the university statement on prelaw programs in the *Undergraduate Education* section of this catalog.

Premed. Students preparing for medical school may pursue a premed program in combination with the B.S. degree program in several majors in the college, such as Anthropology, Human Development and Family Studies, Psychology, Sociology or the Interdisciplinary Studies in Social Science Health and Society major. Declared premed students will be advised by a preprofessional advisor in the College of Natural Science as well as by the academic advisor in their Social Science major.

Honors Study

The College of Social Science encourages honors students to develop distinctive undergraduate programs in their chosen fields. In each major a specially designated Honors advisor, usually a member of the faculty, assists students to plan a rigorous and balanced program tailored to the students' individual interests and abilities.

Departments and schools of the college offer honors courses and seminars at both introductory and advanced levels. These courses are provided chiefly, but not exclusively, for members of the Honors College. In addition, the college offers independent study and research opportunities for Honors College students whose interests in social, behavioral, and economic science reach beyond the topics covered by college courses.

SOCIAL SCIENCE
Undergraduate Programs

MINOR IN AFRICAN STUDIES

The Minor in African Studies, which is administered by the College of Social Science, is available as an elective to students who are enrolled in bachelor's degree programs at Michigan State University. Although the minor complements a number of major fields, students who plan graduate study related to Africa, who wish to pursue careers in international agencies in the United States and other countries, or who wish to work in Africa may find the minor particularly appealing. With the approval of the department and college that administer the student's degree program, the courses that are used to satisfy the requirements for the minor may also be used to satisfy the requirements for the bachelor's degree.

The Minor in African Studies provides a multidisciplinary educational experience for students who are interested in Africa. The minor is designed to help students to acquire a better understanding of diverse aspects of African environments, economies, politics, societies, and cultures.

The student's program of study for the minor must be approved in advance and in writing by the advisor for African studies in the College of Social Science.

Requirements for the Minor in African Studies

The student must complete a minimum of 16 credits:

1. The following core course (4 credits):
 - HST 208 Introduction to African History, Culture and Society 4
 2. One of the following courses (3 or 4 credits):
 - ANP 417 Introduction to Islam in Africa 3
 - ANP 455 Archaeology of Ancient Egypt 3
 - GEO 338 Geography of Africa 3
 - GEO 339 Geography of the Middle East and North Africa 3
 - HST 201 Historical Methods and Skills 3
 - HST 360 African History to 1800 3
 - HST 361 African History since 1800 3
 - HST 364 South Africa: From Shaka Zulu to Mandela 3
 - HST 421 Women and Gender in Africa 3
 - HST 450 Special Topics in African History 3
 - HST 484 Seminar in African History (W) 3
 - PLS 422 Seminar in Political Science (W) 4

The topic of HST 201 and PLS 422 must contain specific content pertaining to African studies and be approved by the African Studies advisor.
 3. Complete at least 6 credits from the following courses (6 credits):
 - EEP 260 World Food, Population and Poverty 3
 - ENG 350 Readings in African, African-American, or African Diaspora Literature 3
 - HA 271 African Art 3
 - MC 395 Cultural Dimensions of Public Affairs 4
 - MUS 426 Music of Africa 2
 - PHL 351 African Philosophy 3
 - RCAH 203 Transcultural Relations through the Ages 4
 - REL 360 African Religion 3

The topic of MC 395 and RCAH 203 must contain specific content pertaining to African studies and be approved by the African Studies advisor.
 4. The following course (3 credits):
 - PLS 351 African Politics 3
- Students are encouraged to take courses in African languages to enhance their understanding of Africa.

MINOR IN ASIAN PACIFIC AMERICAN STUDIES

The Minor in Asian Pacific American Studies, which is administered by the College of Social Science, is available as an elective to students enrolled in bachelor's degree programs at Michigan State University. Although the minor complements a number of major fields, students who plan graduate study related to the social sciences, ethnic studies, literature, media studies, or history may find this minor engaging. Students interested in pursuing professional training in business administration and management, city and regional planning, counseling, education, law, library and information science, public health, and social welfare may also be interested.

The minor focuses on social and cultural history and contemporary issues relating to Asian Pacific Americans, a diverse group who come from varying class, ethnic, religious, and national back-

grounds. The minor incorporates an interdisciplinary approach to issues and populations in the United States and includes exposure to current research, case studies, and contact with local communities.

Students who are interested in this minor must contact the coordinator for the Minor in Asian Pacific American Studies. The student's program of study for the minor must be approved in advance and in writing by the coordinator for Asian Pacific American Studies. With the approval of the department and college that administer the student's degree program, courses that are used to satisfy the requirements for the minor may also be used to satisfy the requirements for a bachelor's degree. Certain courses in the minor may require approval of the department or college that administers the course, and enrollment in a specific section as approved by the coordinator of the minor.

Requirements for the Minor in Asian Pacific American Studies

	CREDITS
The student must complete a minimum of 15 credits:	
1. The following core course (3 credits):	
SSC 293 Introduction to Asian Pacific American Studies	3
2. Complete one course from each of the following areas (minimum of 12 credits):	
Asian Pacific American Studies	
ANP 437 Asian Emigrant Communities: A Global Perspective	3
ENG 352 Readings in Asian or Asian American Literature	3
ISS 335 National Diversity and Change: United States (N)	4
MC 319 Asian American History	4
Asian Diaspora	
ANP 437 Asian Emigrant Communities: A Global Perspective	3
ENG 352 Readings in Asian or Asian American Literature	3
ENG 360 Studies in Postcolonial and Diaspora Literature (W)	3
ENG 460 Seminar in Global and Postcolonial Literature	3
FLM 451 Studies in Postcolonial Cinema	3
MC 369 Global Issues in Citizenship (W)	4
Race and Ethnicity	
ANP 330 Race, Ethnicity, and Nation: Anthropological Approaches to Collective Identity	3
ENG 449 Seminar in Race, Ethnicity, Literature	3
FLM 450 Studies in Ethnic Film	3
HDFS 442 Ethnic Families in America	3
MC 281 Immigrants, Minorities, and American Pluralism	4
MC 385 Comparative Race and Ethnic Relations	4
SOC 215 Race and Ethnicity	3
Asian Studies	
ANP 414 Anthropology of South Asia	3
ANP 415 China: Culture and Society	3
ASN 464 Studies in the Literature of Asia and the Asian Diaspora (W)	3
HA 260 Asian Art	3
HA 462 The Arts of China	4
HA 463 Japanese Art	4
HST 210 Modern East Asia	4
HST 365 The Vietnam War	3
HST 366 Southeast Asia in the Age of Empire	3
HST 368 China since 1900	3
HST 370 Japan since 1800	3
HST 451 Special Topics in Asian History	3
MC 323 Japanese Foreign Policy	4
PSY 493 Issues in Psychology (W)	3
REL 325 East Asian Buddhism	3
REL 335 East Asian Religions	3
REL 355 Southeast Asian Religions	3

With the approval of the Coordinator for Asian Pacific American Studies, students may take a second **Asian Pacific American Studies** or **Asian Diaspora Studies** course in place of an **Asian Studies** course. Students may not use the same course to fulfill the requirement in different areas.

The topic of ISS 335 and PSY 493 must contain specific content pertaining to Asian Pacific American Studies and be approved by the Coordinator for Asian Pacific American Studies.

One Asian language course (Chinese, Hindi, Indonesian, Japanese, Korean, Persian, Tamil, Thai, Turkish, Urdu, Uzbek, Vietnamese and other languages as approved), may be used toward Asian Studies courses in requirement 2.

With the advance approval of the Coordinator for Asian Pacific American Studies, other courses and options such as study abroad, study away, and independent study may be used to fulfill minor requirements.

MINOR IN ASIAN STUDIES

The Minor in Asian Studies, which is administered by the College of Social Science, is available as an elective to students who are enrolled in bachelor's degree programs at Michigan State University. Although the minor complements a number of major fields, students who plan graduate study related to Asia or who wish to pursue careers in government or with corporations in Asia may find the minor particularly appealing. With the approval of the department and college that administer the student's degree program, the courses that are used to satisfy the requirements for the minor may also be used to satisfy the requirements for the bachelor's degree. Courses taken in a Michigan State University Study Abroad program in Asia may be counted toward the minor with the permission of the Director of the Asian Studies Center and the student's advisor.

The Minor in Asian Studies provides an opportunity for students to create a multidisciplinary specialty with Asia as the focus. The student's program of study for the minor must be approved in advance and in writing by the advisor for Asian Studies in Social Science.

Requirements for the Minor in Asian Studies

The student must complete a minimum of 16 credits:

1. The following core course (4 credits):
 - HST 160 Introduction to Asian History and Culture 4
2. One of the following courses (3 or 4 credits):
 - ANP 414 Anthropology of South Asia 3
 - ANP 415 China: Culture and Society 3
 - ANP 419 Anthropology of the Middle East 3
 - EC 406 Economic Analysis of Russia and the Commonwealth of Independent States (W) 3
 - EC 413 Economic Analysis of Asia (W) 3
 - GEO 339 Geography of the Middle East and North Africa 3
 - GEO 340 Geography of Eurasia 3
 - HST 209 Traditional East Asia 4
 - HST 210 Modern East Asia 4
 - HST 343 Russia from Peter the Great to Lenin 3
 - HST 344 Russia in Twentieth Century 3
 - HST 365 The Vietnam War 3
 - HST 366 Southeast Asia in the Age of Empire 3
 - HST 367 Imperial China 3
 - HST 368 China since 1900 3
 - HST 369 Japan to 1800 3
 - HST 370 Japan since 1800 3
 - HST 372 The Middle East: Islam and Empires 3
 - HST 373 The Modern Middle East: From Empires to Nation States 3
 - HST 451 Special Topics in Asian History 3
 - HST 485 Seminar in Asian History (W) 3
 - ISS 330B Asia: Social Science Perspectives (I) 4
 - MC 441 Islam and World Politics 4
 - PLS 354 Politics of Asia 3
 - PLS 358 Politics of the U.S.S.R. and Its Successor States 3

The following courses may not fulfill requirement 3, below if used to fulfill this requirement: MC 441 and PLS 358.
3. Complete at least 6 credits from the following courses (6 credits):
 - ASN 291 Special Topics in Asian Languages 1 to 4
 - ASN 401 East Asian Cultures (W) 3
 - HA 260 Asian Art 3
 - HA 261 Modern Asian Art 3
 - HA 462 The Arts of China 4
 - HA 463 Japanese Art 4
 - IAH 204 Asia and the World (I) 4
 - IAH 211B Area Studies and Multicultural Civilizations: Asia (I) 4
 - LL 250B Topics in National Cinemas: East Asian Cinema 3
 - MC 323 Japanese Foreign Policy 4
 - MC 324D Regional Politics, Cooperation, and Conflict in Asia 4
 - MC 328 Russian Foreign Policy 4
 - MC 441 Islam and World Politics 4
 - MUS 425 Music of South Asia and Its Diaspora 2
 - MUS 429 Music of East Asia 2
 - PLS 358 Politics of the U.S.S.R. and Its Successor States 3
 - REL 325 East Asian Buddhism 3
 - REL 330 Islam 3
 - REL 335 East Asian Religions 3
 - REL 340 Hinduism 3
 - REL 345 Religions of South Asia 3
 - REL 350 Buddhism in South Asia 3
 - REL 355 Southeast Asian Religions 3
 - REL 430 The Qur'an and Its Interpreters (W) 3
 - REL 432 Modern Muslim Thought (W) 3

The following courses may not fulfill requirement 2, above if used to fulfill this requirement: MC 441 and PLS 358. Students may not use both IAH 204 and IAH 211B to fulfill this requirement.
4. The following course (3 credits):

- GEO 337 Geography of Asia-Pacific 3
- With the advance approval of the Asian Studies advisor in the College of Social Science, other courses and options such as study abroad, study away, and independent study may be used to fulfill minor requirements. Student are encourage to take courses in Asian languages to enhance their understanding of Asia.

SPECIALIZATION IN GENDER AND GLOBAL CHANGE

The Specialization in Gender and Global Change, which is administered by the College of Social Science, is available as an elective to students enrolled in bachelor's degree programs at Michigan State University other than students enrolled in the Bachelor of Science and/or Bachelor of Arts Degree programs in Global and Area Studies-Social Science. The specialization provides students with an opportunity to study gender relations in the contexts of global political, economic, environmental, and social changes. The specialization is designed for students who wish to increase their understanding of global transformations and their impact on women and gender relations internationally. Students will study diverse issues such as gender and health, human rights and justice, gender and environment, and feminist theory in an international context. This specialization complements students' majors and current areas of interest and prepares them for graduate studies and employment. Students interested in enrolling in the specialization must have their specialization program of study approved by the Director of the Women and International Development program who serves as the specialization advisor.

Requirements for the Specialization in Gender and Global Change

A minimum of 18 credits is required for the specialization.

1. **Core Courses.** Complete two of the following courses. Both courses must be from different departments, and at least one must be at the 300-level or above. (minimum of 6 credits)
- | | CREDITS |
|-----------------------------------------------------------------|---------|
| <i>Anthropology</i> | |
| ANP 220 Gender Relations in Comparative Perspective | 3 |
| <i>James Madison College</i> | |
| MC 386 Women and Power in Comparative Perspective | 4 |
| <i>Sociology</i> | |
| SOC 216 Sex and Gender | 3 |
| <i>Women, Gender and Social Justice</i> | |
| WS 201 Introduction to Women's Studies | 4 |
| WS 202 Introduction to Contemporary Feminist Theories | 3 |
| WS 401 Feminist Theory | 4 |
| WS 403 Women and Change in Developing Countries | 3 |
2. **Elective Courses.** Complete a minimum of three courses. Not more than two courses may be from the same department. At least one course must be at the 300-level or above. No course may be used to satisfy both the core course and elective requirements.

	CREDITS
<i>Anthropology</i>	
ANP 220 Gender Relations in Comparative Perspective	3
ANP 270 Women and Health: Anthropological and International Perspectives	3
ANP 330 Race, Ethnicity, and Nation: Anthropological Approaches to Collective Identity	3
ANP 370 Culture, Health, and Illness	3
ANP 430 Culture, Resources, and Power	3
ANP 431 Gender, Environment, and Development	3
ANP 439 Human Rights: Anthropological Perspectives (D)	3
<i>Fisheries and Wildlife</i>	
FW 211 Introduction to Gender and Environmental Issues	3
<i>History</i>	
HST 412 Women in Modern European History	3
HST 420 History of Sexuality since the 18 th Century	3
<i>James Madison College</i>	
MC 386 Women and Power in Comparative Perspective	4
MC 482 Gender and Violent Conflict	4
<i>Women, Gender and Social Justice</i>	
WS 403 Women and Change in Developing Countries	3
WS 404 Women and Law in the United States	3

A list of other courses which may be appropriate as electives are available from the Director of Women and International Development.
 3. **Capstone Experience.** Complete the following course (3 credits):

SSC 499 Directed Research in Interdisciplinary Studies in Social Science (W)	3
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Students should enroll in the section on *Issues in International Development*.

SOCIAL SCIENCE
Undergraduate Programs

MINOR IN GLOBAL STUDIES IN SOCIAL SCIENCE

The Minor in Global Studies in Social Science, which is administered by the College of Social Science, is available as an elective to students who are enrolled in bachelor's degree programs at Michigan State University. The minor should be attractive to students who plan careers with a global focus and who, therefore, wish to add a strong global dimension to their disciplinary majors. With the approval of the department and college that administer the student's degree program, the courses that are used to satisfy the requirements for the minor may also be used to satisfy the requirements for the bachelor's degree.

The Minor in Global Studies in Social Science is designed for students who wish to increase their understanding of the processes of continuity and change in various regions of the world, particularly Africa, Asia, Europe, and Latin America. The minor provides an opportunity for students to learn how contemporary global systems influence global relations and national trends, as well as how culture shapes processes of continuity and change in one of the major world regions. Multidisciplinary in theory and practice, the minor is based on the methodologies, theories, and literatures of the social sciences and liberal arts and involves faculty from the social sciences, languages, and applied professional fields.

The College of Social Science academic advisor for Global Studies in Social Science assists the student in planning a program of study that is tailored to the student's interests, disciplinary major, and career objectives. The student's program of study for the minor must be approved in advance and in writing by the advisor for global studies in social science.

Requirements for the Minor in Global Studies in Social Science

The student must meet the requirements specified below:

- CREDITS
- Complete a minimum of 15 credits in courses at the 200 level or above **excluding** any credits in courses that are used to satisfy the **Foreign Language Proficiency** requirement referenced in item 2. below. Not more than 4 of the 15 credits may be in 200-level courses.
 - Foreign Language Proficiency:** Demonstrate proficiency in a modern foreign language equivalent to four semesters of study at the university level. The results of the Michigan State University foreign language placement test will be considered in determining whether or not the student has fulfilled this requirement. The student is encouraged to complete a fifth semester of study in the language that focuses on the culture, history, and literature of a developing region of the world.
 - Conceptual Courses:** Complete at least **two** of the following courses that are in a field other than the student's major (6 credits):

ABM 427	Global Agri-Food Industries and Markets	3
ANP 321	Anthropology of Social Movements	3
ANP 370	Culture, Health, and Illness	3
ANP 431	Gender, Environment and Development	3
ANP 436	Globalization and Justice: Issues in Political and Legal Anthropology	3
ANR 250	Global Issues in Agriculture and Natural Resources	3
ANR 475	International Studies in Agriculture and Natural Resources	2 to 6
ANS 480	Animal Systems in International Development	3
EC 410	Issues in the Economics of Developing Countries (W)	3
EPP 260	World Food, Population and Poverty	3
GEO 435	Geography of Health and Disease	3
GEO 454	Geography of Environment and Development	3
MC 320	Politics, Society and Economy in the Third World	4
PLS 342	Comparative Political Economy	3
PLS 344	Politics of Developing Countries	3
PLS 347	Democratic Regimes	3
PLS 363	International and Domestic Political Conflict	3
SOC 310	Global Migration	3
SOC 362	Developing Societies	3
SOC 416	Global Regions	3
SOC 451	Dynamics of Population	3
SOC 452	Environment and Society	3
WS 403	Women and Change in Developing Countries	3
 - Regional Courses:** Complete at least **one** course in any one of the following four geographic areas (3 or 4 credits):

Africa and the Middle East

ANP 416	Anthropology of Southern Africa	3
ANP 419	Anthropology of the Middle East	3
EC 414	Economic Analysis of Sub-Saharan Africa (W)	3
GEO 338	Geography of Africa	3

GEO 339	Geography of the Middle East and North Africa	3
HST 208	Introduction to African History, Culture and Society	4
HST 361	African History since 1800	3
HST 364	South Africa: From Shaka Zulu to Mandela	3
HST 373	The Modern Middle East: From Empires to Nation States	3
HST 450	Special Topics in African History	3
HST 484	Seminar in African History (W)	3
MC 324A	Regional Politics, Cooperation, and Conflict in the Middle East	4
MC 324B	Regional Politics, Cooperation, and Conflict in Sub-Saharan Africa	4
PLS 346	Middle East Politics	3
PLS 351	African Politics	3
<i>Asia</i>		
ANP 414	Anthropology of South Asia	3
ANP 415	China: Culture and Society	3
ANP 437	Asian Emigrant Communities: A Global Perspective	3
EC 413	Economic Analysis of Asia (W)	3
GEO 337	Geography of Asia-Pacific	3
HST 210	Modern East Asia	4
HST 367	Imperial China	3
HST 368	China since 1900	3
HST 369	Japan to 1800	3
HST 370	Japan Since 1800	3
HST 451	Special Topics in Asian History	3
HST 485	Seminar in Asian History (W)	3
MC 323	Japanese Foreign Policy	4
MC 324D	Regional Politics, Cooperation and Conflict in Asia	4
PLS 354	Politics of Asia	3
<i>Europe</i>		
EC 406	Economic Analysis of Russia and the Commonwealth of Independent States (W)	3
GEO 336	Geography of Europe	3
GEO 340	Geography of Eurasia	3
HST 336	Contemporary Europe, 1870 to Present	3
HST 342	Modern East-Central Europe	3
HST 344	Russia in the Twentieth Century	3
HST 348	Modern Germany	3
HST 452	Special Topics in European History	3
MC 328	Russian Foreign Policy	4
PLS 356	Politics of Europe and the European Union	3
PLS 358	Politics of the U.S.S.R. and Its Successor States	3
<i>Latin America and the Caribbean</i>		
ANP 410	Anthropology of Latin America	3
EC 412	Economic Analysis of Latin America (W)	3
GEO 335	Geography of Latin America	3
HST 212	National Latin America	4
HST 382	Modern Brazil	3
HST 383	The Caribbean	3
HST 384	Modern Mexico	3
HST 453	Special Topics in Latin American History	3
HST 486	Seminar in Latin American History (W)	3
MC 324C	Regional Politics, Cooperation, and Conflict in Latin America and the Caribbean	4

MINOR IN LATIN AMERICAN AND CARIBBEAN STUDIES

The Minor in Latin American and Caribbean Studies, which is administered by the College of Social Science, is available as an elective to students who are enrolled in bachelor's degree programs at Michigan State University. The minor emphasizes coherent course work about the cultural context, history, politics, economics, and geography of Latin American and the Caribbean with the potential for complementary experiential learning. Some courses focus on individual countries, while others are comparative and cross-national. Second-year language proficiency is required. Linking preparatory course selections to experiential learning (study abroad or mentored research) is encouraged. The outcomes of these projects will be developed, presented and discussed in seminar series. With the approval of the department and college that administer the student's degree program, the courses that are used to satisfy the requirements for the minor

may also be used to satisfy the requirements for the bachelor's degree.

Requirements for the Minor in Latin American and Caribbean Studies

The student must complete a minimum of 15 credits as specified below:

	CREDITS
1. Foreign Language Proficiency: Proficiency in Spanish or Portuguese or other relevant language is required and must be demonstrated by completion of second-year, university-level courses or equivalent language placement scores based on a Michigan State University placement test or equivalent examination. Students who are native speakers in the target language should contact the minor advisor to discuss placement.	
2. Complete a minimum of 14 credits from the following list, with at least four courses from at least two departments:	
<i>Anthropology</i>	
ANP 410 Anthropology of Latin America	3
<i>Economics</i>	
EC 412 Economic Analysis of Latin America (W)	3
<i>English</i>	
ENG 351 Readings in Chicano and Latino Literatures	3
<i>Geography</i>	
GEO 335 Geography of Latin America	3
<i>History</i>	
HST 211 Colonial Latin America	4
HST 212 National Latin America	4
HST 382 Modern Brazil	3
HST 383 The Caribbean	3
HST 384 Modern Mexico	3
HST 453 Special Topics in Latin American History	3
HST 486 Seminar in Latin American History (W)	3
<i>Integrative Studies in Arts and Humanities</i>	
IAH 203 Latin America and the World (I)	4
<i>Integrative Studies in Social Science</i>	
ISS 330C Latin America: Social Science Perspectives (I)	4
<i>James Madison College</i>	
MC 324C Regional Politics, Cooperation, and Conflict in Latin America and the Caribbean	4
<i>Political Science</i>	
PLS 352 Latin American Politics	3
<i>Portuguese</i>	
PRT 150 Portuguese for Speakers of Other Romance Languages I	4
PRT 250 Portuguese for Speakers of Other Romance Languages II	4
PRT 320 Advanced Portuguese	3
PRT 340 Topics in Luso-Brazilian Language and Culture	3
PRT 350 Introduction to Literary Analysis (W)	3
Students that place into Third-Year Spanish may also count either PRT 150 or 250 toward general minor credits.	
<i>Spanish</i>	
SPN 342 Media and Conversation	3
SPN 350 Introduction to Reading Hispanic Literature (W)	3
SPN 412 Topics in Hispanic Culture	3
SPN 432 Latin America and its Literature	3
SPN 472 Topics in the Literatures of the Americas	3
<i>Electives (1 to 4 credits)</i>	
A maximum of 4 credits of experiential learning such as an internship, independent study, guided research, service learning, study abroad or relevant elective courses, approved by the Center for Latin American and Caribbean Studies, may substitute for credits in requirement 2.	
3. Completion of the <i>Seminar Series in Latin American and Caribbean Studies</i> through enrollment of 1 credit in SSC 490. Students may opt for an additional enrollment of 1 credit for a maximum of 2 credits. Students will develop a project based on Latin American and Caribbean studies course work or elective experiential learning experience in the form of a research paper or other creative work to be presented in the seminar series at the completion of the minor.	

MINOR IN CHICANO/LATINO STUDIES

The Minor in Chicano/Latino Studies, which is administered by the College of Social Science, is available as an elective to students who are enrolled in bachelor's degree programs at Michigan State University. Although the minor complements a number of major fields, students who plan graduate study related to the social sciences or who wish to pursue careers in education, social work, government or businesses that serve mixed ethnic communities may find the minor particularly appealing. With the approval of the department and college that administer the student's degree program, the courses that are used to satisfy the requirements for the minor may also be used to satisfy the requirements for the bachelor's degree.

The Minor in Chicano/Latino Studies is designed to help students to understand the multicultural dimensions of society; to gain a knowledge of Chicano/Latino scholarship and scholars;

and to apply that knowledge to the study of Chicano/Latino communities and life. The minor draws on research, teaching, and community service among Chicanas/os and U.S. Latinas/os that:

1. Focuses intensively on the histories of different racial and cultural sub-groups of Latinos.
2. Draws larger theoretical lessons from comparisons among these groups and between non-Latino populations.
3. Seeks to articulate general principles that shape racial and ethnic relations.
4. Explores how ethnic identity is constructed and reconstructed over time.
5. Develops methodologies and principles which empower students to enhance leadership and human relations within diverse communities of peoples and conditions.

Students who plan to complete the requirements of the minor should consult the Director of Chicano/Latino Studies.

Requirements for the Minor in Chicano/Latino Studies

	CREDITS
The student must complete a total of 15 credits including:	
1. The following course:	3
CLC 201 Introduction to Chicano/Latino Studies	3
2. Three of the following courses focusing on Chicano/Latino content:	9
ENG 351 Readings in Chicano and Latino Literatures	3
GSAH 230 Values, Experience, and Difference in Global Contexts	3
HDFS 442 Ethnic Families in America	3
HST 327 History of Mexican Americans in the United States	3
HST 383 The Caribbean	3
HST 384 Modern Mexico	3
PLS 304 Minority Politics	3
SOC 215 Race and Ethnicity	3
SOC 499 Social Issues and Change in Contemporary Society (W)	3
SPN 350 Introduction to Reading Hispanic Literature (W)	3
SPN 412 Topics in Hispanic Culture	3
SPN 491 Special Topics in Spanish	3
The following courses must have at least one-fourth of the content focus specifically on Chicanas/os and U.S. Latinas/os in the United States: GSAH 230, SOC 215 and 499, SPN 412, or 491. Both HST 383 and HST 384 may not be used to fulfill this requirement.	
This requirement may be fulfilled by other courses with a Chicano/Latino focus, if approved in advance by the Director of Chicano/Latino Studies. The courses must deal with ethnicity, race, gender, and inequality. To qualify for inclusion, at least one-fourth of the content of the course must focus specifically on Chicano/Latinos in the United States.	
3. One of the following three options:	3
a. A supervised internship (CLS 493) relevant to Chicano/Latino studies with a public or private agency or organization. To satisfy this option, the student must complete one course of at least 3 credits approved in advance by the Director for Chicano/Latino Studies.	
b. Directed study abroad relevant to Chicano/Latino Studies. To satisfy this option, the student must complete one course of at least 3 credits approved in advance by the Director for Chicano/Latino Studies.	
c. A research experience relevant to Chicano/Latino Studies (CLS 490). To satisfy this option, the student must complete one course of at least 3 credits approved in advance by the Director for Chicano/Latino Studies.	

MINOR IN PEACE AND JUSTICE STUDIES

The Minor in Peace and Justice Studies, which is administered by the College of Social Science, is available as an elective to students who are enrolled in bachelor's degree programs at Michigan State University. The minor explores issues of human rights, social justice, environmental justice, economic justice, activism, peace, violence, and conflict, examining their connections and distinctions through an interdisciplinary curriculum that stimulates students to develop the critical thinking skills necessary to face global challenges. The minor allows students to explore a range of thematic issues by developing a series of critical analytics that enable them to discern how power and injustice operate. Students will use critical thinking skills to analyze particular case studies or thematic issues.

SOCIAL SCIENCE
Undergraduate Programs

With the approval of the department and the college that administer the student's degree program, the courses that are used to satisfy the requirements for the minor may also be used to satisfy the requirements for the bachelor's degree.

The student's program of study must be approved by the undergraduate advisor for Peace and Justice Studies before enrollment.

Requirements for the Minor in Peace and Justice Studies

The student must complete the following (15 credits):

	CREDITS
1. One of the following core courses focusing on basic concepts and assumptions of peace and justice, contexts of violence and domination, alternatives to violence and domination, and peace and justice as a practice (3 credits):	
ANP 436 Globalization and Justice: Issues in Political and Legal Anthropology	3
ANP 439 Human Rights: Anthropological Perspectives	3
PHL 353 Core Themes in Peace and Justice Studies	3
2. Complete 12 credits from the following. At least 9 credits must be at the 300-400 level and 3 credits must be in a subject outside the student's major. Courses must be approved by the undergraduate advisor for the Minor in Peace and Justice Studies to ensure appropriate amount of peace and justice studies content.	
ANP 220 Gender Relations in Comparative Perspective	3
ANP 236 The Anthropology of Peace and Justice	3
ANP 270 Women and Health: Anthropological and International Perspectives	3
ANP 280 The Anthropological Film	3
ANP 321 Anthropology of Social Movements	3
ANP 325 Anthropology of the Environment and Development	3
ANP 330 Race, Ethnicity, and Nation: Anthropological Approaches to Collective Identity	3
ANP 410 Anthropology of Latin America	3
ANP 426 Urban Anthropology	3
ANP 430 Culture, Resources and Power	3
ANP 431 Gender, Environment and Development	3
CJ 220 Criminology	3
CJ 355 Juvenile Justice	3
CJ 422 Comparative and Historical Criminal Justice	3
CJ 425 Women and Criminal Justice	3
COM 100 Human Communication	3
EAD 363 Diversity and Higher Education	3
EC 495 Economics of Poverty and Income Distribution (W)	3
EEP 260 World Food, Population and Poverty	3
GEO 418 The Ghetto	3
GEO 432 Environmental Ethics (W)	3
GSAH 310 Conflict and Justice in a Global Setting	3
GSAH 312 Media Mobility: Change, Access, Representation	3
HST 313 Women in the United States to 1869	3
HST 364 South Africa: From Shaka Zulu to Mandela	3
HST 392 History of the Holocaust	3
HST 414 World War II: Causes, Conduct and Consequences	3
HST 420 History of Sexuality since the 18th Century	3
HST 455 Special Topics in Modern History	3
HST 487 Seminar in Comparative History (W)	3
JRN 445 Images and Messages	3
JRN 475 International News and Government Regional Dynamics	3
MC 280 Social Theory and Social Relations	4
MC 281 Immigrants, Minorities, and American Pluralism	4
MC 322 International Security	4
MC 324A Regional Politics, Cooperation, and Conflict in the Middle East	4
MC 324B Regional Politics cooperation, and Conflict in Sub-Saharan Africa	4
MC 324C Regional Politics, Cooperation, and Conflict in Latin America and the Caribbean	4
MC 324D Regional Politics, Cooperation, and Conflict in Asia	4
MC 337 Global Public Health	4
MC 366 Film, History, and Nation	4
MC 369 Global Issues and Citizenship (W)	4
MC 377 Culture, Politics and Post-Colonialism	4
MC 382 Social Movements	4
MC 385 Comparative Race and Ethnic Relations	4
MC 386 Women and Power in Comparative Perspective	4
MC 387 Jews and Anti-Semitism	4
MC 388 Sexual Politics: Historical and Contemporary Perspectives	4
MC 482 Gender and Violent Conflict	3
PHL 291 Special Topics in Introductory Philosophy	3 to 4
PHL 342 Environmental Ethics	3
PHL 350 Introduction to Social and Political Philosophy	3
PHL 351 African Philosophy	3
PHL 354 Philosophy of Law	3
PHL 356 Philosophical Aspects of Feminism	4
PHL 357 Philosophy of Karl Marx	3
PHL 358 Philosophy, Gender, and Global Development	3
PHL 450 Liberal Theory and Its Critics	3
PHL 451 Philosophy and the Black Experience	3
PHL 452 Ethics and Development	3

PHL 453 Ethical Issues in Global Public Health	3
PHL 454 Topics in Philosophy of Law	3
PHL 456 Topics in Feminist Philosophy	4
PLS 160 Introduction to International Relations	3
PLS 320 The American Judicial Process	3
PLS 344 Politics of Developing Areas	3
PLS 363 International Political Conflict	3
PLS 364 Politics of the United Nations and International Organizations	3
RCAH 203 Transcultural Relations through the Ages	4
RCAH 390 Immersions in Language and Culture	2 to 4
SOC 215 Race and Ethnicity	3
SOC 216 Sex and Gender	3
SOC 331 Political Sociology	3
SOC 452 Environment and Society	3
SOC 481 Social Movements and Collective Identities	3
WRA 115 Writing: Law and Justice in the United States	4
WRA 125 Writing: The American Ethnic and Racial Experience	4
WRA 130 Writing: American Radical Thought	4
WRA 140 Writing: Women in America	4
WS 301 Sexual Violence Against Women and Children: Theory and Response	3
WS 403 Women and Change in Developing Countries	3
3. Completion of a Capstone Paper . This paper may derive from one of the courses completed for requirements 1. or 2. It is intended to synthesize themes the student examined in the minor. A faculty member affiliated with the Minor in Peace and Justice Studies must approve the paper and inform the undergraduate advisor for Peace and Justice Studies of its satisfactory completion.	

TEACHER CERTIFICATION OPTIONS

Teacher certification can be attained through the Child Development, History, or Interdisciplinary Studies in Social Science: Social Science Education major. Students who elect the Interdisciplinary Studies in Social Science: Social Science Education major for teacher certification must contact the Interdisciplinary Studies in Social Science office.

The following minors in the College of Social Science also are available for teacher certification: economics, geography, history, political science, psychology, and sociology. Students who elect one of these minors for teacher certification must contact the department in which the minor is based.

For more information, refer to the statement on the major referenced above and to the statement on *TEACHER CERTIFICATION* in the *Department of Teacher Education* section of this catalog.

GRADUATE STUDY

Units within the College of Social Science offer programs leading to degrees of Master of Arts, Master of International Planning Studies, Master of Human Resources and Labor Relations, Master of Public Policy, Master of Science, Master of Social Work, Master of Urban and Regional Planning, and Doctor of Philosophy.

The following dual degree program is co-sponsored by the College of Social Science and Michigan State University College of Law: Master of Human Resources and Labor Relations and J.D.

For information about the following interdisciplinary specializations, graduate certificates, and degree programs, see the referenced section of this catalog. The College of Social Science is lead sponsor of:

- (1) Graduate Specialization in Animal Studies: Social Science and Humanities Perspective, for all master's and doctoral students at Michigan State University (see statement on this specialization in the *Department of Sociology* section)
- (2) Interdepartmental Graduate Specialization in Infancy and Early Childhood, for master's or doctoral students in the departments of Anthropology, Psychology or Sociology, or MSW students in the School of Social Work, and in a number of other departments and programs at MSU (see statement on this specialization, below)

- (3) Graduate Specialization in International Development, for all master's or doctoral students at Michigan State University (see statement on this specialization, below)
- (4) Interdepartmental Graduate Specialization in Cognitive Science, for master's or doctoral students in Geography or Psychology, and in a number of other departments and programs at MSU (see statement on this specialization, below)
- (5) Graduate Specialization in Environmental Policy for master's or doctoral students enrolled in master's or doctoral degree programs at Michigan State University (see statement on this specialization below)
- (6) Graduate Specialization in Environmental Science and Policy for doctoral students enrolled in doctoral degree programs in departments and programs emphasizing environmental science and policy (see statement on this specialization, below)
- (7) Graduate Specialization in Judicial Administration for all master's students at Michigan State University (see statement on this specialization in the *School of Criminal Justice* section)
- (8) Graduate Specialization in Security Management, for master's degree students enrolled in master's degree programs at Michigan State University (see statement on this specialization in the *School of Criminal Justice* section)
- (9) Graduate Specialization in Forensic Science, for doctoral students enrolled in doctoral degree programs at Michigan State University (see statement on this specialization in the *School of Criminal Justice* section)
- (10) Graduate Specialization in Global Urban Studies, for doctoral students enrolled in doctoral degree programs at Michigan State University (see statement on this specialization below)
- (11) Graduate Certificate in Chicano/Latino Studies, for graduate students enrolled in a graduate degree program at Michigan State University (see statement on this certificate below)
- (12) Graduate Certificates in Youth Development and Youth Program Management and Evaluation, in collaboration with The Great Plains Interactive Distance Education Alliance (GPIDEA) (see statements on these certificates in the *Department of Human Development and Family Studies* section)
- (13) Graduate Certificate in Environmental and Social System Modeling, for graduate students enrolled in a graduate degree program at Michigan State University (see statement on this certificate below).

The College of Social Science is a co-sponsor of:

- (1) Interdepartmental Ph.D. program in Ecology, Evolutionary Biology and Behavior for doctoral students in Anthropology or Psychology (see statement on this doctoral program in the *College of Natural Science* section)
- (2) Graduate Specialization in Food Safety for master's students in Sociology (see statement on this specialization in the *College of Veterinary Medicine* section)
- (3) Interdepartmental Ph.D. degree program in Neuroscience (see statement on this doctoral program in the *College of Natural Science* section)
- (4) Graduate Specialization in Gender, Justice, and Environmental Change, for master's or doctoral students in the College of Social Science (see statement on this specialization in the *College of Agriculture and Natural Resources* section)
- (5) Interdisciplinary Graduate Specialization in Women's and Gender Studies, which is administered by the Program in Women, Gender and Social Justice, for master's or doctoral students (see statement on this specialization in the *College of Arts and Letters* section)

Requirements for the various degrees are summarized below. For complete requirements of any given program or degree, con-

tact the appropriate unit in the college and see the *Graduate Education* section of this catalog. A student must meet the standards of the university, college, and unit.

Master of Arts

Most students in the College of Social Science pursue the Master of Arts degree, although several other master's degree programs are available through the college.

Requirements for the Degree

A maximum of 8 credits is allowed for thesis research.

Academic Standards

The accumulation of grades below 3.0 (including *N* grades in the P–N grading system) in more than two courses of three or more credits each removes the student from the degree program; this policy does not apply to courses below the 400 level unless the courses are required for the student's program.

Time Limit

The time limit for completion of the master's degree is six years from the beginning of the first semester in which credit was earned toward the degree.

Other Master's Degrees

Other degrees at the master's level offered by the college are listed below. For a description and summary of the requirements for each degree, consult the section of this catalog devoted to the appropriate department or school. The statements on Academic Standards and Time Limit for the Master of Arts degree also apply to all other master's degrees in the college.

DEGREE	DEPARTMENT OR SCHOOL
Master of International Planning Studies	School of Planning, Design and Construction
Master of Human Resources and Labor Relations	School of Labor and Industrial Relations
Master of Science	Department of Geography, School of Criminal Justice
Master of Public Policy	Department of Political Science
Master of Social Work	School of Social Work
Master in Urban and Regional Planning	School of Planning, Design and Construction

Doctor of Philosophy

The successful completion of the Doctor of Philosophy degree requires scholarly ability of a high order. Ph.D. degree programs, with emphasis on specialization and research, are offered in each of the departments in the College of Social Science.

Academic Standards

A doctoral student may earn grades below 3.0 (including *N* grades in the P–N grading system) in not more than two of the courses required by the guidance committee.

CHICANO/LATINO STUDIES

The Doctor of Philosophy degree program in Chicano/Latino Studies prepares scholars, researchers, and teachers in the social sciences and humanities to develop expertise in the historical and contemporary experiences of Chicanos and Latinos in their social, cultural, political, and economic contexts. The program emphasizes global, trans-disciplinary, comparative, and applied

SOCIAL SCIENCE
Graduate Study

approaches to knowledge which enhance collaborative scholarly efforts within the university, peer educational institutions, and the broader community. It addresses Chicano and Latino experiences in home communities in the United States, and international dimensions and diaspora experiences involving communities in the United States, Latin America, and the Caribbean.

In addition to meeting the requirements of the university and of the College of Social Science, students must meet the requirements specified below.

Admission

Admission to the Doctor of Philosophy degree in Chicano/Latino Studies is based on an evaluation of the student's academic record. Applicants must have completed a bachelor's degree and a master's degree. Graduate Record Examination (GRE) General Test scores, letters of recommendation, written statements, and other information such as professional experience and related achievements. Applicants without master's degrees or sufficient course work may be admitted provisionally and be required to complete a specified number of collateral courses, not to count toward the degree, before regular admission is granted.

Guidance Committee

The graduate director will guide students in the selection of courses for the first year. By the end of the second semester of the first year, students should choose their major professor and their guidance committee. The committee shall consist of at least four members, at least two in Chicano/Latino Studies and up to two in related fields.

Requirements for the Doctor of Philosophy Degree in Chicano/Latino Studies

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| | CREDITS |
| 1. Students must complete 30 credits from the following: | |
| a. All of the following courses: | |
| CLS 810 Historiography and Social Science Methods in Chicano/Latino Studies | 3 |
| CLS 811 Literary and Cultural Theory in Chicano/Latino Studies | 3 |
| CLS 893E Readings in Chicano/Latino Studies | 1 to 4 |
| CLS 894 Fieldwork in Chicano/Latino Studies | 1 to 4 |
| CLS 896 Seminar in Chicano/Latino Studies | 3 |
| b. A minimum of 3 credits in research methods in an area of specialization. | |
| c. Electives from the following: American studies, anthropology, English, history of art, history, music, resource development, sociology, and Spanish. The course work must be selected from an approved course list in consultation with the student's guidance committee. | |
| 2. Complete Spanish, Nahuatl, or another Amerindian language to fulfill the language requirement. Demonstrate advanced reading proficiency by passing oral and written examinations. | |
| 3. Pass two comprehensive written examinations as arranged by the guidance committee, one in Chicano/Latino Studies and one in the student's area of specialization. | |
| 4. Complete 24 credits of CLS 999 Doctoral Dissertation Research. | |
| 5. Submit the dissertation proposal to the guidance committee and successfully pass the oral examination in defense of the dissertation. | |

GRADUATE CERTIFICATE IN CHICANO/LATINO STUDIES

The Graduate Certificate in Chicano/Latino Studies exposes students to methodologies specific to Chicano/Latino Studies, and to debates in the field that reflect larger transformations in United States culture and society. Students interested in research related to Chicanos and Latinos in the United States will find this certificate program of interest.

Admission

To be considered for admission to the Graduate Certificate in Chicano/Latino Studies, students must:

1. Have a bachelor's degree.
2. Be currently enrolled in a Michigan State University graduate degree program other than the Doctor of Philosophy degree program in Chicano/Latino Studies.
3. Have a minimum grade-point average of 3.0.

Requirements for the Graduate Certificate in Chicano/Latino Studies

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| | CREDITS |
| 1. Complete all of the following courses (9 credits): | |
| CLS 810 Historiography and Social Science: Methods in Chicano/Latino Studies | 3 |
| CLS 811 Literary and Cultural Theory in Chicano/Latino Studies | 3 |
| CLS 896 Seminar in Chicano/Latino Studies | 3 |
| 2. Complete 3 credits in related content from another department or graduate-level program as approved by the Chicano/Latino director. This requirement may be met by either: (1) a graduate-level course that includes at least 50% Chicano/Latino studies content, or (2) a graduate-level course in which the student completes a research assignment addressing a Chicano/Latino studies topic related to course content. | |

GRADUATE CERTIFICATE IN ENVIRONMENTAL AND SOCIAL SYSTEM MODELING

The Graduate Certificate in Environmental and Social System Modeling is designed for students who desire to understand a variety of modeling techniques used to address environmental problems that span human and natural systems. The certificate program exposes students to a range of state-of-the-art techniques including agent-based modeling, systems dynamics modeling, multilevel modeling, and structural equation modeling.

Requirements for the Graduate Certificate in Environmental and Social System Modeling

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|----------------------------------------------------------------------------|---------|
| | CREDITS |
| Students must complete 9 credits from the following: | |
| 1. Both of the following courses (3 credits): | |
| ESP 850 Introduction to Environmental and Social System Modeling | 1 |
| ESP 890 Modeling Environmental and Social Systems | 2 |
| 2. Two of the following courses (6 credits): | |
| CSUS 851 Modeling Natural Resource Systems | 3 |
| GEO 869 Geosimulation | 3 |
| SOC 883 Multi-Equation Quantitative Models | 3 |

CENTER for INTEGRATIVE STUDIES in SOCIAL SCIENCE

Gerald Ericksen, Director

Integrative Studies is Michigan State University's unique approach to liberal general education, offering a core curriculum that complements specialized work by students in their majors. Integrative Studies courses integrate multiple ways of knowing and modes of inquiry and introduce students to important ways of thinking in the three core knowledge areas: the Arts and Humanities, the Biological and Physical Sciences, and the Social, Behavioral, and Economic Sciences. They assist students early during their study to develop as more critical thinkers. They also encourage appreciation of our humanity and creativity, human

cultural diversity, the power of knowledge, and our responsibilities for ourselves and for our world.

Courses in Michigan State University's Integrative Studies Program are aimed at developing intellectual abilities, including critical thinking and interpretive skills. They help increase knowledge about other times, places, and cultures, key ideas and issues in human experience, and the scientific method and its usefulness in understanding the natural and social worlds. They are expected to enhance appreciation of the role of knowledge, and of values and ethics, in understanding human behavior and solving social problems. Finally, they help students recognize responsibilities and opportunities associated with democratic citizenship and with living in an increasingly interconnected, interdependent world.

The Center for Integrative Studies in the Arts and Humanities in the College of Arts and Letters has primary responsibility for the Arts and Humanities area of Integrative Studies at Michigan State University.

The Center for Integrative Studies in General Sciences in the College of Natural Sciences has primary responsibility for Integrative Studies courses in the Biological and Physical Sciences at Michigan State University.

The Center for Integrative Studies in the Social Sciences in the College of Social Science has primary responsibility for Integrative Studies courses in the Social, Behavioral, and Economic Sciences at Michigan State University.

GLOBAL and AREA STUDIES-SOCIAL SCIENCE

Requirements for the Bachelor of Science Degree in Global and Area Studies

(This program is currently in moratorium and will be discontinued. New students should contact the College of Social Science)

GLOBAL and INTERNATIONAL STUDIES IN SOCIAL SCIENCE

UNDERGRADUATE PROGRAM

The Global and International Studies in Social Science major provides students with breadth in social science foundational courses combined with in-depth knowledge in a world region or global topic. World region concentrations include African Studies, Asian Studies, Canadian Studies, European Studies, Latin American and Caribbean Studies, Middle Eastern Studies, and Russian and Eurasian Studies. Global topical concentrations include Gender and Global Change and International Development. Students enrolled in a concentration cannot complete a minor in the same concentration area.

In addition to academic focus on a region or theme, students must demonstrate second-year foreign language proficiency relevant to their course of study. Students develop understanding of the processes of continuity and change in various world regions

through multidisciplinary theory and practice and use of methodologies, theories, and literatures of various disciplines and fields.

Students are strongly encouraged to have at least one international experience through study abroad, internships, or independent study. The major helps prepare students for jobs in government, business, and non-governmental organizations that are engaged with the world outside the United States and for graduate study in international or area studies and other fields.

Upon completion of the Bachelor of Arts Degree in Global and International Studies in Social Science, students will be able to 1) summarize the most important topics relevant to the global or thematic area under study; 2) draw on theories from at least two social science disciplines to explain the social issues present in the area or theme of study; 3) use social science research methods to assess the impact of relevant topics on the global or thematic area of study; and 4) explain how social science intersects with other disciplines to enhance understanding of global or thematic topics.

Students must select one of the following concentrations:

African Studies. The African Studies concentration provides an interdisciplinary education focused on African history, language, culture and society.

Asian Studies. The Asian Studies concentration offers students an interdisciplinary education on Asia, particularly South Asia, Southeast Asia and East Asia. Courses focus on the culture, politics, languages and economy of Asian countries.

Canadian Studies. The Canadian Studies concentration focuses studies on Canada, including modern and aboriginal Canadian issues. A special focus on the interrelationship between Canada and the United States is included.

European Studies. The European Studies concentration provides students with specialized education in Europe, with a focus on Western European countries. Courses include discussion on the politics, language history and culture of Europe.

Gender and Global Change. The Gender and Global Change concentration will provide students with important, foundational content in women and gender studies in global and international perspectives.

International Development. The International Development concentration is an enhanced integrative learning program of study designed to provide students with a basic understanding of: 1) how social scientists approach the topic of international development; 2) how to integrate multiple disciplinary approaches to the interrelationships of topics in international development; and 3) how to facilitate both broad and in-depth understanding of the social context in which international development occurs.

Latin American and Caribbean Studies. The Latin American and Caribbean Studies concentration in Latin American and Caribbean studies contains focused coursework on countries in the Caribbean and Central and South America, and the cultures, languages, and societies of that region.

Middle Eastern Studies. The Middle Eastern Studies concentration contains focused course work on the Middle East, with an emphasis on regional culture, language, religion, and geography.

Russian and Eurasian Studies. The Russian and Eurasian Studies concentration is designed to enhance the student's understanding of the cultures and societies of Russia, and nearby countries at the intersection of Europe and Asia. The concentration offers an interdisciplinary, comparative and cross-cultural approach to the study of Russia and Eurasia.

In addition to meeting the requirements of the university and of the College of Social Science, students must meet the requirements specified below.

SOCIAL SCIENCE

Global and International Studies-Social Science

Requirements for the Bachelor of Arts Degree in Global and International Studies in Social Science

1. The graduation requirements of the University as described in the *Undergraduate Education* section of this catalog; 120 credits, including general elective credits, are required for the Bachelor of Arts degree in Global and International Studies in Social Science.

The University's Tier II writing requirement for the Global and International Studies in Social Science major is met by completing Social Science 499. That course is referenced in item 3. below.

2. The requirements of the College of Social Science for the Bachelor of Arts degree.
 3. The following requirements for the major:

CREDITS

- a. Three of the following foundational courses. No more than one course can be from a single discipline (9 to 12 credits):
 - ANP 201 Introduction to Cultural Anthropology 3
 - EC 201 Introduction to Microeconomics 3
 - EC 202 Introduction to Macroeconomics 3
 - GEO 151 Introduction to Human Geography 3
 - GEO 204 World Regional Geography 3
 - HST 140 World History to 1500 4
 - HST 150 World History since 1500 4
 - PLS 140 Introduction to Comparative Politics 3
 - PLS 160 Introduction to International Relations 3
 - PSY 101 Introductory Psychology 4
 - SOC 161 International Development and Change 3
 - UP 100 The City 3

With advisor approval, qualified students may substitute Economics 251H for Economics 201.

- b. The following courses (4 credits):
 - SSC 299 Integration of Social Science Perspectives 1
 - SSC 499 Capstone in Interdisciplinary Studies in Social Science (W) 3
- c. Complete a minimum of 15 credits in one of the following concentrations with no more than two courses from a single discipline. At least 9 credits must be from the College of Social Science.

African Studies

College of Social Science courses:

ANP 416	Anthropology of Southern Africa	3
EC 414	Economic Analysis of Sub-Saharan Africa (W)	3
GEO 338	Geography of Africa	3
HST 208	Introduction to African History, Culture and Society	4
HST 360	African History to 1800	3
HST 361	African History since 1800	3
HST 364	South Africa: From Shaka Zulu to Mandela	3
HST 421	Women and Gender in Africa	3
HST 450	Special Topics in African History	3
HST 484	Seminar in African History (W)	3
PLS 351	African Politics	3
SOC 161	International Development and Change	3

Courses outside of the College of Social Science:

ENG 317	Readings in African and Caribbean Literatures	3
ENG 350	Readings in African, African-American, or African Diaspora Literature	3
HA 271	African Art	3
HA 471	Selected Topics in African Art	4
JRN 375	International Journalism and Media	3
JRN 475	International News and Government Dynamics	3
MC 441	Islam and World Politics	4
PHL 351	African Philosophy	3
RCAH 203	Transcultural Relations through the Ages	4
REL 360	African Religion	3

Asian Studies

College of Social Science courses:

ANP 414	Anthropology of South Asia	3
ANP 415	China: Culture and Society	3
EC 413	Economic Analysis of Asia (W)	3
GEO 337	Geography of Asia-Pacific	3
HST 209	Traditional East Asia	4
HST 210	Modern East Asia	4
HST 261	The First Imperial Age, 1600-1750	3
HST 365	The Vietnam War	3
HST 366	Southeast Asia in the Age of Empire	3
HST 367	Imperial China	3
HST 368	China since 1900	3
HST 369	Japan to 1800	3
HST 370	Japan since 1800	3
HST 451	Special Topics in Asian History	3
HST 485	Seminar in Asian History (W)	3
PLS 354	Politics of Asia	3

Courses outside of the College of Social Science:

CHS 360	Cinematic Studies of China, Hong Kong, and Taiwan	3
ENG 352	Readings in Asian or Asian American Literature	3
HA 260	Asian Art	3
HA 261	Modern Asia Art	3
JRN 475	International News and Government Dynamics	3
LL 250B	Topics in National Cinemas: East Asian Cinema	3
MC 319	Asian American History	4
MC 324D	Regional Politics, Cooperation, and Conflict in Asia	4
REL 335	East Asian Religions	3
REL 355	Southeast Asian Religions	3

Canadian Studies

College of Social Science courses:

ANP 411	North American Indian Ethnography	3
ANP 432	American Indian Women	3
CJ 439	Homeland Security	3
GEO 113	Introduction to Economic Geography	3
GEO 330	Geography of the United States and Canada	3
HST 301	Colonial America: Three Worlds Meet	3
SOC 310	Global Migration	3

Courses outside of the College of Social Science:

ENG 204	Topics in North American Literatures	3
FW 207	Great Lakes: Biology and Management	3
REL 306	Native American Religions	3

The content in FW 207 must be approved by the student's academic advisor.

European Studies

College of Social Science courses:

ANP 416	Anthropology of Southern Africa	3
GEO 336	Environmental Geomorphology	3
HST 335	Europe in the Age of Revolution, 1700-1870	3
HST 336	Contemporary Europe, 1870 to Present	3
HST 337	European Power, Culture, and Thought: Renaissance to the Enlightenment	3
HST 338	European Power, Culture and Thought: The Modern Era	3
HST 341	Modern Britain since 1688	3
HST 347	Modern France	3
HST 348	Modern Germany	3
HST 392	History of the Holocaust	3
HST 412	Women in Modern European History	3
HST 414	World War II: Causes, Conduct and Consequences	3
HST 415	The First World War	3
HST 452	Special Topics in European History	3
HST 483	Seminar in Modern European History (W)	3
PLS 356	Politics of Europe and the European Union	3
PLS 357	Politics of English-Speaking Democracies	3

Courses outside of the College of Social Science:

AL 431	European Fairy Tale Tradition	3
HA 210	Medieval Art	3
HA 230	Renaissance and Baroque Art	3
JRN 475	International News and Government Dynamics	3
MC 324E	Regional Politics, Cooperation and Conflict in Europe	4
MC 329	European Security: Challenges and Strategies	4
MC 331	Encounters with Post-Communism	4
MC 387	Jews and Anti-Semitism	4
REL 275	Magic and Mysticism: Western Esoteric Traditions and Practices	3
REL 310	Judaism	3
ROM 355	French, Italian, and Spanish Cinema since 1930	4

Gender and Global Change

Both of the following courses:

WS 201	Introduction to Women's and Gender Studies	3
WS 202	Introduction to Contemporary Feminisms and Gender Theories	3

College of Social Science courses:

ANP 220	Gender Relations in Comparative Perspective	3
ANP 270	Women and Health: Anthropological and International Perspectives	3
ANP 432	American Indian Women	3
CJ 425	Women and Criminal Justice	3
HST 312	African American Women	3
HST 313	Women in the U.S. to 1869	3
HST 314	Women in the U.S. since 1869	3
HST 412	Women in Modern European History	3
HST 420	History of Sexuality since the 18th Century	3
HST 421	Women and Gender in Africa	3
PSY 339	Psychology of Women	3
SOC 216	Sex and Gender	3

International Development

College of Social Science courses:

ANP 201	Introduction to Cultural Anthropology	3
EC 310	Economics of Developing Countries	3
EC 410	Issues in Economics of Developing Countries (W)	3
HST 260	Navigations and Encounters in an Age of Discovery	3
HST 261	The First Imperial Age, 1600 – 1750	3
HST 326	United States Foreign Relations since 1914	3
HST 390	History of International Relations	3
PLS 342	Comparative Political Economy	3
PLS 344	Politics of Developing Areas	3
PLS 363	International and Domestic Political Conflict	3

Courses outside of the College of Social Science:

ANR 250	Global Issues in Agriculture and Natural Resources	3
EEL 260	World Food, Population and Poverty	3
GSAH 220	Global Interactions and Identities	3
PHL 358	Philosophy, Gender and Global Development	3
PHL 452	Ethics and Development	3
WS 403	Women and Change in Developing Countries	3

Latin American and Caribbean Studies

College of Social Science courses:

ANP 410	Anthropology of Latin America	3
EC 412	Economic Analysis of Latin America (W)	3
GEO 335	Geography of Latin America	3
HST 211	Colonial Latin America	4
HST 212	National Latin America	4
HST 382	Modern Brazil	3
HST 383	The Caribbean	3
HST 384	Modern Mexico	3

HST	453	Special Topics in Latin American History	3
HST	486	Seminar in Latin American History (W)	3
PLS	352	Latin American Politics	3
<i>Courses outside of the College of Social Science:</i>			
ENG	351	Readings in Chicano and Latino Literatures	3
JRN	475	International News and Government Dynamics	3
MC	324C	Regional Politics, Cooperation, and Conflict in Latin America and the Caribbean	4
Middle Eastern Studies			
<i>College of Social Science courses:</i>			
ANP	419	Anthropology of the Middle East	3
GEO	339	Geography of the Middle East and North Africa	3
HST	205	The Ancient Mediterranean and the Medieval World	4
HST	372	The Middle East: Islam and Empires	3
HST	373	The Modern Middle East: From Empires to Nation States	3
HST	487	Seminar in Comparative History (W)	3
The content in HST 487 must be approved by the student's academic advisor.			
<i>Courses outside of the College of Social Science:</i>			
JRN	375	International Journalism and Media	3
MC	324A	Regional Politics, Cooperation, and Conflict in the Middle East	4
MC	335	Israeli Politics, Cultures and Society	4
MC	441	Islam and World Politics	4
REL	310	Judaism	3
REL	330	Islam	3
Russian and Eurasian Studies			
<i>College of Social Science courses:</i>			
EC	406	Economic Analysis of Russia and the Commonwealth of Independent States (W)	3
HA	271	African Art	3
HST	326	United States Foreign Relations since 1914	3
HST	342	Modern Eastern Europe	3
HST	343	Russia from Peter the Great to Lenin	3
HST	344	Russia in the Twentieth Century	3
HST	414	World War II: Causes, Conduct and Consequences	3
HST	415	The First World War	3
MC	441	Islam and World Politics	4
PLS	358	Politics of the U.S.S.R. and Its Successor States	3
<i>Courses outside of the College of Social Science:</i>			
LL	250D	Topics in National Cinemas: Russian and Soviet Cinema	3
MC	321	The Cold War: Culture, Politics and Foreign Policy	4
MC	324E	Regional Politics, Cooperation and Conflict in Europe	4
MC	328	Russian Foreign Policy	4
MC	329	European Security: Challenges and Strategies	4
MC	331	Encounters with Post-Communism	4
MC	387	Jews and Anti-Semitism	4
RUS	231	19th-Century Russian Literature in Translation	3
RUS	232	20th-Century Russian Literature in Translation	3
d.	One of the following research methodology courses (3 or 4 credits):		
ANP	429	Ethnographic Field Methods	4
ANP	461	Method and Theory in Historical Archaeology	3
ANP	464	Field Methods in Archaeology	2 to 6
CJ	292	Methods of Criminal Justice Research	3
EC	420	Introduction to Econometric Methods	3
GEO	221	Introduction to Geographic Information	3
GEO	324	Remote Sensing of the Environment	4
GEO	363	Introduction to Quantitative Methods for Geographers	3
HST	201	Historical Methods and Skills	3
PLS	201	Introduction to Methods of Political Analysis	4
PSY	295	Data Analysis in Psychological Research	3
SOC	281	Methods of Social Research I	4
WS	203	Introduction to Methods for Women's and Gender Studies Research	3
e.	Foreign Language Competency		
Students must demonstrate competency in a language relevant to the region of study. This is achieved through the completion of the second year of study or equivalent language placement scores. Students are strongly encouraged to complete language minors or other relevant minors.			
This requirement may be satisfied by placing into a 300-level foreign language course based on a Michigan State University placement test. Students who come from other countries or cultures where a language other than English is spoken, should contact their academic advisor to discuss placement.			
The following languages are pre-approved for each concentration. Students who wish to use a language other than those listed must receive approval from their academic advisor. Second-year proficiency is demonstrated through the completion of one course from any of the following languages:			
African Studies			
AFR	202A	Second-Year Swahili II	4
AFR	202B	Second-Year African Language II	4
AFR	252	Intermediate Individualized African Language II	4
ARB	202	Second-Year Arabic II	5
Asian Studies			
ARB	202	Second-Year Arabic II	5
CHS	202	Second-Year Chinese II	5
JPN	202	Second-Year Japanese II	5
LL	252	Second-Year Less Commonly Taught	5

Language II	4		
RUS	202	Second-Year Russian II	4
Students who choose LL 252 must have a language in Tamil, Hindi, Korean, Vietnamese, Thai, Malay, Persian, Turkish, Uzbek, Tagalog/Filipino, Nepali, Bahasa/Indonesia, Telegu, Bengali, or Khmer.			
Canadian Studies			
FRN	202	Second-Year French II	4
LL	252	Second-Year Less Commonly Taught Language II	4
Students who choose LL 252 must have the language Ojibwe.			
European Studies			
FRN	202	Second-Year French II	4
GRM	202	Second-Year German II	4
ITL	202	Second-Year Italian II	4
LL	252	Second-Year Less Commonly Taught Language II	4
PRT	202	Second-Year Portuguese II	4
PRT	250	Portuguese for Speakers of Other Romance Languages II	4
RUS	202	Second-Year Russian II	4
SPN	202	Second-Year Spanish II	4
Students who choose LL 252 must have a language in Polish, Turkish, or Dutch.			
Gender and Global Change			
Second year proficiency in any language other than English.			
International Development			
Second year proficiency in any language other than English.			
Latin American and Caribbean Studies			
FRN	202	Second-Year French II	4
PRT	202	Second-Year Portuguese II	4
PRT	250	Portuguese for Speakers of Other Romance Languages II	4
SPN	202	Second-Year Spanish II	4
Middle Eastern Studies			
ARB	202	Second-Year Arabic II	4
HEB	202	Second-Year Hebrew II	4
LL	252	Second-Year Less Commonly Taught Language II	4
Students who choose LL 252 must have a language in Persian/Farsi, or Turkish.			
Russian and Eurasian Studies			
LL	252	Second-Year Less Commonly Taught Language II	4
RUS	202	Second-Year Russian II	4
Students who choose LL 252 must have a language in Turkish, Azerbaijani, Uzbek, Polish, Tajik, Kazak, Kyrgyz, Persian/Farsi.			

INTERDISCIPLINARY STUDIES IN SOCIAL SCIENCE

UNDERGRADUATE PROGRAMS

The College of Social Science explicitly recognizes that many important and rewarding areas for study do not fit neatly within the boundaries of any single social science discipline, but rather overlap two or more such fields. The college also recognizes that many students do not wish to limit their undergraduate major studies to the specialization of a single disciplinary department or professional school. The interdisciplinary studies in social science major provides undergraduates with an interest in public policy, problem solving in society, and community engagement, the core of the mission of the College, a unique opportunity to shape their curriculum to develop interdisciplinary approaches to real world issues at the local, national, and global levels. The educational objectives of the major are to: develop students' integrated judgment, advanced communication skills, analytical thinking, cultural awareness, and civic engagement; develop students' understanding of social science approaches to the challenges and issues that face societies across space and time, and develop students' ability to integrate disciplinary knowledge, skills, and methods to solve complex real world problems.

The college offers two broadly based, coherent, multidisciplinary, undergraduate majors in interdisciplinary social science.

SOCIAL SCIENCE
Interdisciplinary Studies in Social Science

1. Interdisciplinary Studies in Social Science
2. Interdisciplinary Studies in Social Science: Social Science Education

INTERDISCIPLINARY STUDIES IN SOCIAL SCIENCE

Students must select one of four concentrations:

Community Governance and Advocacy. Explores issues and problems related to community organizations, political or social advocacy, governance, private-public sector partnerships, philanthropy, and other local, state, or regional matters. Course offerings deal with physical development, social interaction, race and ethnicity, family, gender, economics, and politics as they relate to challenges of community life.

Health and Society. Examines the social, behavioral, and economic determinants of health. Students will gain the knowledge and skills to improve population health. Students may select from courses in health psychology, anthropology of alternative medicine, or the sociology of health care systems.

Human Capital and Society. Students explore aspects of the modern workplace and employment relationships from a variety of social science perspectives. Topics of inquiry include economic and technological factors affecting employment and wages in the global economy, employer-employee relations in the U.S. and other nations, racial and ethnic considerations, and gender issues. The concentration provides a strong background for individuals wishing to pursue graduate study in labor and industrial relations, human resources, and other related social science and business fields.

Liberal Studies. Students will create an individual sequence of course work designed to accomplish study in interdisciplinary studies in social science.

Requirements for the Bachelor of Arts or Bachelor of Science Degree in Interdisciplinary Studies in Social Science

1. The graduation requirements of the University as described in the *Undergraduate Education* section of this catalog; 120 credits, including general elective credits, are required for the Bachelor of Arts or Bachelor of Science degree in Interdisciplinary Studies in Social Science.
 The University's Tier II writing requirement for the Interdisciplinary Studies in Social Science major is met by completing Social Science 499. That course is referenced in item 5. below.
2. The graduation requirements of the College of Social Science for the Bachelor of Arts or Bachelor of Science degree.
3. **Foundation Courses** (9 to 12 credits):
 Three of the following courses:
 ANP 201 Introduction to Cultural Anthropology 3
 EC 201 Introduction to Microeconomics 3
 GEO 204 World Regional Geography 3
 HST 110 Historical Approaches to Contemporary Issues 3
 PLS 200 Introduction to Political Science 4
 PSY 101 Introductory Psychology 4
 SOC 100 Introduction to Sociology 4
 One foundation course must match the discipline in the selected cognate, as listed in item 7. below. Qualified students may substitute Economics 251H for Economics 201.
4. The following course (1 credit):
 SSC 299 Integration of Social Science Perspectives 1
5. **Capstone Course** (3 credits):
 The following course:
 SSC 499 Capstone in Interdisciplinary Studies in Social Science (W) 3
6. Complete a minimum of 15 to 27 credits in one of the following concentrations with no more than two courses from a single discipline. Courses in the cognate discipline may not be used to satisfy the course requirements of the concentration.
 Students pursuing the Liberal Studies concentration should refer to the section below on Liberal Studies.

Community Governance and Advocacy

Anthropology

ANP 321	Anthropology of Social Movements.....	3
ANP 330	Race, Ethnicity, and Nation: Anthropological Approaches to Collective Identity.....	3
ANP 426	Urban Anthropology.....	3
ANP 430	Culture, Resources, and Power.....	3
ANP 439	Human Rights: Anthropological Perspectives.....	3

Criminal Justice

CJ 110	Introduction to Criminal Justice.....	3
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CJ 474	Law and Criminal Justice Policy.....	3
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Economics

EC 335	Taxes, Government Spending, and Public Policy.....	3
EC 380	Labor Relations and Labor Market Policy.....	3
EC 425	Law and Economics.....	3

Geography

GEO 413	Urban Geography.....	3
GEO 418	The Ghetto.....	3

History

HST 306	Modern United States.....	3
HST 413	Families in Historical Perspective.....	3

Human Development and Family Studies

HDFS 405	Work and Family.....	3
HDFS 442	Ethnic Families in America.....	3

Political Science

PLS 301	American State Government.....	3
PLS 302	Urban Politics.....	3
PLS 313	American Public Policy.....	3
PLS 320	Judicial Politics.....	3
PLS 331	Political Parties and Interest Groups.....	3
PLS 333	Public Opinion and Political Behavior.....	3

Psychology

PSY 270	Community Psychology.....	3
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Sociology

SOC 215	Race and Ethnicity.....	3
SOC 330	Social Stratification.....	3
SOC 331	Political Sociology.....	3
SOC 361	Contemporary Communities.....	3
SOC 363	Rural Sociology.....	3
SOC 375	Urban Sociology.....	3
SOC 424	Organizations and Society.....	3
SOC 481	Social Movements and Collective Identities.....	3

Social Science

SSC 493	Social Science Internship.....	3
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Social Work

SW 475	School Violence: Causes and Interventions.....	3
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Urban Planning

UP 100	The City.....	3
UP 201	Introduction to Urban and Regional Planning.....	4
UP 353	Land Use Planning.....	4

Health and Society

Anthropology

ANP 204	Introduction to Medical Anthropology.....	3
ANP 206	Introduction to Physical Anthropology.....	3
ANP 270	Women and Health: Anthropological and International Perspectives.....	3
ANP 370	Culture, Health and Illness.....	3
ANP 423	Psychological Anthropology.....	3
ANP 425	Issues in Medical Anthropology.....	3
ANP 471	The Anthropology of Alternative Medicine.....	3

Economics

EC 498	Economics of Health Care (W).....	3
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Epidemiology

EPI 390	Disease in Society: Introduction to Epidemiology and Public Health.....	4
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Geography

GEO 435	Geography of Health and Disease.....	3
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History

HST 420	History of Sexuality since the 18th Century.....	3
HST 425	American and European Health Care since 1800.....	4

Human Development and Family Studies

HDFS 225	Lifespan Human Development in the Family.....	3
HDFS 445	Human Sexuality.....	3
HDFS 449	Special Needs Children and Their Families.....	3

Neuroscience

NEU 310	Psychology and Biology of Human Sexuality.....	3
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Psychology

PSY 209	Brain and Behavior.....	3
PSY 280	Abnormal Psychology.....	3
PSY 320	Health Psychology.....	3
PSY 409	Psychobiology of Behavioral Development (W).....	3

Sociology

SOC 215	Race and Ethnicity.....	3
SOC 216	Sex and Gender.....	3
SOC 368	Science, Technology and Society.....	3
SOC 424	Organizations and Society.....	3
SOC 427	Environmental Toxicology and Society.....	3
SOC 451	Dynamics of Population.....	3
SOC 452	Environment and Society.....	3
SOC 475	Health and Society.....	3

Social Science

SSC 493	Social Science Internship.....	3
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Social Work

SW 472	Social Work in Health Care.....	3
SW 474	Substance Abuse and the Human Services.....	3

Human Capital and Society

Anthropology

ANP 220	Gender Relations in Comparative Perspective.....	3
ANP 330	Race, Ethnicity and Nation: Anthropological Approaches to Collective Identity.....	3
ANP 430	Culture, Resources and Power.....	3
ANP 475	Organizational Anthropology.....	3

Economics

EC 301	Intermediate Microeconomics.....	3
EC 340	Survey of International Economics.....	3
EC 360	Private Enterprise and Public Policy.....	3
EC 380	Labor Relations and Labor Market Policy.....	3

EC	480	Analysis of Labor Markets (W)	3
EC	495	Economics of Poverty and Income Distribution (W)	3
<i>Geography</i>			
GEO	113	Introduction to Economic Geography	3
<i>History</i>			
HST	213	U.S. Business and Economic History	3
HST	306	Modern United States	3
<i>Human Development and Family Studies</i>			
HDFS	405	Work and Family	3
HDFS	442	Ethnic Families in America	3
<i>Human Resources and Labor Relations</i>			
HRLR	211	Introduction to Organizational Leadership	3
HRLR	289	Navigating the World of Work	3
HRLR	311	Applied Organizational Leadership	3
<i>Political Science</i>			
PLS	310	Administration and Policy Making	3
PLS	342	Comparative Political Economy	3
<i>Psychology</i>			
PSY	235	Social Psychology	3
PSY	236	Personality	3
PSY	255	Industrial and Organizational Psychology	3
PSY	339	Psychology of Women	3
<i>Sociology</i>			
SOC	215	Race and Ethnicity	3
SOC	216	Sex and Gender	3
SOC	322	Sociology of Work	3
SOC	330	Social Stratification	3
SOC	331	Political Sociology	3
SOC	424	Organizations and Society	3
<i>Social Science</i>			
SSC	493	Social Science Internship	3

Liberal Studies

Students interested in completing a Liberal Studies concentration must complete 27 credits of course work in the College of Social Science, of which at least 3 credits must be a course on social research methods offered by any unit in the college. Liberal Studies students are limited to no more than five courses in a single discipline, and are not required to complete a disciplinary cognate as listed in item 7. below. Liberal Studies students may only count College of Social Science courses toward their major requirements, but are strongly encouraged to select appropriate electives, specializations, or minors to accomplish the student's academic goals. To pursue this concentration, a student must develop a proposal in coordination with the interdisciplinary studies in social science advisor that includes the following: To pursue the concentration, a student must develop a proposal in coordination with the interdisciplinary studies in social science advisor that includes the following:

- a. a proposed outline of the course work to be taken with a rationale for each course.
- b. a statement of purpose for the proposed course work.
- c. a set of specific learning outcomes that will be achieved through the course work that is not available in other majors at the university, or in the college.

The proposed course of study must be approved by the interdisciplinary studies in social science advisor, two tenure-stream faculty members in the College of Social Science, with final approval from the Center for Integrative Studies in Social Science advisory committee.

7. Disciplinary Cognate

Complete a minimum of 12 credits in courses in one of the following disciplines: anthropology, economics, geography, history, political science, psychology, or sociology. Courses in the disciplinary cognate may not be used to satisfy the course requirements of the concentration. Students pursuing the Liberal Studies concentration above are not required to complete a disciplinary cognate.

Anthropology Cognate. In addition to the ANP 201 foundation course listed in item 3. above, complete the following:

- a. The following course:

ANP	206	Introduction to Physical Anthropology	3
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- b. One of the following courses:

ANP	320	Social and Cultural Theory	3
ANP	429	Ethnographic Field Methods	4
ANP	461	Method and Theory in Historical Archaeology	3
ANP	463	Laboratory Methods in Archaeology	3
ANP	464	Field Methods in Archaeology	3
- c. One of the following courses:

ANP	321	Anthropology of Social Movements	3
ANP	330	Race, Ethnicity, and Nation: Anthropological Approaches to Collective Identity	3
ANP	363	Rise of Civilization	3
ANP	370	Culture, Health, and Illness	3
ANP	420	Language and Culture	3
ANP	422	Religion and Culture	3
ANP	423	Psychological Anthropology	3
ANP	426	Urban Anthropology	3
ANP	430	Culture, Resources and Power	3
ANP	431	Gender, Environment and Development	3
ANP	436	Globalization and Justice: Issues in Political and Legal Anthropology	3
ANP	440	Hominid Fossils	3
ANP	441	Osteology and Forensic Anthropology	4
ANP	462	Frontiers and Colonization in Historical Archaeology	3
- d. One of the following courses:

ANP	410	Anthropology of Latin America	3
ANP	411	North American Indian Ethnography	3

ANP	414	Anthropology of South Asia	3
ANP	415	China: Culture and Society	3
ANP	416	Anthropology of Southern Africa	3
ANP	451	European Archaeology	3
ANP	452	North American Archaeology	3
ANP	453	Mesoamerican Archaeology	3

Economics Cognate. In addition to the EC 201 foundation course listed in item 3. above, complete the following:

- a. The following course:

EC	202	Introduction to Macroeconomics	3
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 Economics 252H may be substituted for Economics 202.
- b. Three courses in Economics at the 300-400 level

Geography Cognate. In addition to the GEO 204 foundation course listed in item 3. above, complete the following:

- a. One of the following courses:

GEO	113	Introduction to Economic Geography	3
GEO	151	Introduction to Human Geography	3
GEO	206	Physical Geography	3
- b. One of the following courses:

GEO	221	Introduction to Geographic Information	3
GEO	324	Remote Sensing of the Environment	4
GEO	363	Introduction to Quantitative Methods for Geographers	3
- c. Complete one Geography course at the 300-level
- d. Complete one Geography course at the 400-level

History Cognate. In addition to the HST 110 foundation course listed in item 3. above, complete the following:

- a. The following course:

HST	201	Historical Methods and Skills	3
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- b. Complete 9 credits from one of the following areas with a minimum of 6 credits in 300-400 level courses:

Women, Gender and Family

HST	312	African American Women	3
HST	313	Women in the United States to 1869	3
HST	314	Women in the United States since 1869	3
HST	324	History of Sport in America	3
HST	412	Women in Modern European History	3
HST	413	Families in Historical Perspective	3
HST	420	History of Sexuality since the 18th Century	3
HST	421	Women and Gender in Africa	3
HST	450	Special Topics in African History	3
HST	451	Special Topics in Asian History	3
HST	452	Special Topics in European History	3
HST	453	Special Topics in Latin American History	3
HST	454	Special Topics in American History	3
HST	455	Special Topics in Modern History	3
HST	480	Seminar in American History (W)	3
HST	483	Seminar in Modern European History (W)	3
HST	484	Seminar in African History (W)	3
HST	485	Seminar in Asian History (W)	3
HST	486	Seminar in Latin American History (W)	3
HST	487	Seminar in Comparative History (W)	3

History 450, 451, 452, 453, 454, 455, 480, 483, 484, 485, 486 and 487 may be used only with approval from the Interdisciplinary Studies in Social Science advisor, in consultation with the Department of History.

U.S. Racial, Ethnic and Cultural History

HST	310	African American History to 1876	3
HST	311	African American History since 1876	3
HST	312	African American Women	3
HST	317	American Jewish History	3
HST	319	Asian American History	3
HST	324	History of Sport in America	3
HST	327	History of Mexican Americans in the United States	3
HST	378	Native Americans in North American History to 1830	3
HST	379	Native Americans in North American History from 1830	3
HST	454	Special Topics in American History	3
HST	455	Special Topics in Modern History	3
HST	480	Seminar in American History (W)	3
HST	487	Seminar in Comparative History (W)	3

History 454, 455, 480, and 487 may be used only with approval from the Interdisciplinary Studies in Social Science advisor, in consultation with the Department of History.

Political, Constitutional and Legal History

HST	302	Revolutionary America	3
HST	305	The Making of the Modern United States	3
HST	306	Modern United States	3
HST	318A	United States Constitutional History to 1890	3
HST	318B	United States Constitutional History from 1877	3
HST	351	Constitutional and Legal History of England since 1400	3
HST	452	Special Topics in European History	3
HST	454	Special Topics in American History	3
HST	455	Special Topics in Modern History	3
HST	480	Seminar in American History (W)	3
HST	483	Seminar in Modern European History (W)	3
HST	487	Seminar in Comparative History (W)	3

SOCIAL SCIENCE

Interdisciplinary Studies in Social Science

History 452, 454, 455, 480, 483, and 487 may be used only with approval from the Interdisciplinary Studies in Social Science advisor, in consultation with the Department of History.

Diplomacy and War

HST 304	The American Civil War	3
HST 325	United States Foreign Relations to 1914	3
HST 326	United States Foreign Relations since 1914	3
HST 390	History of International Relations	3
HST 392	History of the Holocaust	3
HST 414	World War II: Causes, Conduct and Consequences	3
HST 450	Special Topics in African History	3
HST 451	Special Topics in Asian History	3
HST 452	Special Topics in European History	3
HST 453	Special Topics in Latin American History	3
HST 454	Special Topics in Modern History	3
HST 455	Special Topics in Modern History	3
HST 480	Seminar in American History (W)	3
HST 481	Seminar in Ancient History (W)	3
HST 482	Seminar in Medieval History (W)	3
HST 483	Seminar in Modern European History (W)	3
HST 484	Seminar in African History (W)	3
HST 485	Seminar in Asian History (W)	3
HST 486	Seminar in Latin American History (W)	3
HST 487	Seminar in Comparative History (W)	3
HST 488	Seminar in International Relations (W)	3

History 450, 451, 452, 453, 454, 455, 480, 481, 482, 483, 484, 485, 486 and 487 may be used only with approval from the Interdisciplinary Studies in Social Science advisor, in consultation with the Department of History.

The History of a Specific Area of the World - Africa

HST 360	African History to 1800	3
HST 361	African History since 1800	3
HST 364	South Africa: From Shaka Zulu to Mandela	3
HST 421	Women and Gender in Africa	3
HST 450	Special Topics in African History	3
HST 484	Seminar in African History (W)	3

The History of a Specific Area of the World - Asia

HST 209	Traditional East Asia	4
HST 210	Modern East Asia	4
HST 366	Southeast Asia in the Age of Empire	3
HST 367	Imperial China	3
HST 368	China since 1900	3
HST 369	Japan to 1800	3
HST 370	Japan since 1800	3
HST 451	Special Topics in Asian History	3
HST 485	Seminar in Asian History (W)	3

The History of a Specific Area of the World - Modern Europe

HST 335	Europe in the Age of Revolution, 1700-1870	3
HST 336	Contemporary Europe, 1870 to Present	3
HST 337	European Power, Culture, and Thought: Renaissance to Enlightenment	3
HST 338	European Power, Culture, and Thought: The Modern Era	3
HST 341	Modern Britain since 1688	3
HST 342	Modern Eastern Europe	3
HST 344	Russia in the Twentieth Century	3
HST 347	Modern France	3
HST 348	Modern Germany	3
HST 392	History of the Holocaust	3
HST 412	Women in Modern European History	3
HST 452	Special Topics in European History	3
HST 483	Seminar in Modern European History (W)	3

History 452 and 483 may be used only with approval from the Interdisciplinary Studies in Social Science advisor, in consultation with the Department of History.

The History of a Specific Area of the World - Latin America

HST 382	Modern Brazil	3
HST 383	The Caribbean	3
HST 384	Modern Mexico	3
HST 453	Special Topics in Latin American History	3
HST 486	Seminar in Latin American History (W)	3

Political Science Cognate. In addition to the PLS 200 foundation course listed in item 3. above, complete the requirements from one of the areas below:

Political Philosophy

- Both of the following courses:
 - PLS 170 Introduction to Political Philosophy 3
 - PLS 201 Introduction to Methods of Political Analysis 4
- Two of the following courses:
 - PLS 371 Classical Political Philosophy 3
 - PLS 372 Modern Political Philosophy 3
 - PLS 377 American Political Thought 3
 - PLS 422 Seminar in Political Science(W) 4

Political Science 422 may be used only with approval from the Interdisciplinary Studies in Social Science advisor, in consultation with the Department of Political Science.

American Political Institutions

- Both of the following courses:
 - PLS 100 Introduction to American Politics 3
 - PLS 201 Introduction to Methods of Political Analysis 4
- Two of the following courses:
 - PLS 301 American State Government 3
 - PLS 302 Urban Politics 3
 - PLS 310 Public Administration and Policy Making 3

PLS 320	Judicial Politics	3
PLS 321	Constitutional Law	3
PLS 324	Congress	3
PLS 325	The Presidency	3
PLS 331	Political Parties and Interest Groups	3
PLS 334	Campaigns and Elections	3
PLS 422	Seminar in Political Science (W)	4

Political Science 422 may be used only with approval from the Interdisciplinary Studies in Social Science advisor, in consultation

with the Department of Political Science.

Global Issues in Politics

- The following course:
 - PLS 201 Introduction to Methods of Political Analysis 4
 - One of the following courses:
 - PLS 140 Introduction to Comparative Politics 3
 - PLS 160 Introduction to International Relations 3
 - Two of the following courses:
 - PLS 322 Comparative Legal Systems 3
 - PLS 342 Comparative Political Economy 3
 - PLS 344 Politics of Developing Areas 3
 - PLS 351 African Politics 3
 - PLS 352 Latin American Politics 3
 - PLS 354 Politics of Asia 3
 - PLS 356 Politics of Europe and the European Union 3
 - PLS 357 Politics of English Speaking Democracies 3
 - PLS 358 Politics of the U.S.S.R. and its Successor States 3
 - PLS 422 Seminar in Political Science (W) 4
 - PLS 441 Islam and World Politics 4
- Political Science 422 may be used only with approval from the Interdisciplinary Studies in Social Science advisor, in consultation

with the Department of Political Science.

Psychology Cognate. In addition to the PSY 101 foundation course listed in item 3. above, complete the following:

- The following course:
 - PSY 295 Data Analysis in Psychological Research 3

Students who have completed Statistics and Probability 315 should consult an academic advisor before completing this course.
- Two of the following courses:
 - PSY 200 Cognitive Psychology 3
 - PSY 209 Brain and Behavior 3
 - PSY 235 Social Psychology 3
 - PSY 236 Personality 3
 - PSY 244 Developmental Psychology: Infancy Through Childhood 3
 - PSY 255 Industrial and Organizational Psychology 3
 - PSY 270 Community Psychology 3
 - PSY 280 Abnormal Psychology 3
- One Psychology course at the 300-400 level. 3

Sociology Cognate. In addition to the SOC 100 foundation course listed in item 3. above, complete the following:

- Both of the following courses:
 - SOC 281 Methods of Social Research I 4
 - SOC 282 Methods of Social Research II 4
- One of the following courses:
 - SOC 215 Race and Ethnicity 3
 - SOC 216 Sex and Gender 3
 - SOC 330 Social Stratification 3
- One Sociology course at the 300-400 level. 3

Business Emphasis

The Business Emphasis is available as an elective to students who are pursuing a Bachelor of Arts or a Bachelor of Science degree with a major in interdisciplinary studies in social science. To enroll in the business emphasis, students must meet with an interdisciplinary studies in social science advisor.

Requirements for the Business Emphasis (12 credits)

- Complete four of the following courses:
- | | | |
|---------|-------------------------------------|---|
| ACC 202 | Principles of Management Accounting | 3 |
| ACC 230 | Survey of Accounting Concepts | 3 |
| FI 320 | Introduction to Finance | 3 |
| GBL 323 | Introduction to Business Law | 3 |
| MGT 325 | Management Skills and Processes | 3 |
| MKT 327 | Introduction to Marketing | 3 |
- Accounting 230 is not open to students with credit in Accounting 202.

INTERDISCIPLINARY STUDIES IN SOCIAL SCIENCE: SOCIAL SCIENCE EDUCATION

The Interdisciplinary Studies in Social Science: Social Science Education program is a comprehensive teaching major leading to the Bachelor of Arts degree in the College of Social Science. It is available for teacher certification and is only available to students pursuing teacher certification. Students who complete the requirements for this major and the requirements for teacher certification are recommended for a secondary teaching certificate in social studies. Persons with teacher certification in social studies

are qualified to teach history, political science, geography, and economics.

Requirements for the Bachelor of Arts Degree in Interdisciplinary Studies in Social Science: Social Science Education

1. The University requirements for bachelor's degrees as described in the *Undergraduate Education* section of this catalog; 120 credits, including general elective credits, are required for the Bachelor of Arts degree in Interdisciplinary Studies in Social Science: Social Science Education.
The University's Tier II writing requirement for the Interdisciplinary Studies in Social Science: Social Science Education major is met by completing History 480 or 481 or 482 or 483 or 484 or 485 or 486 or 487 or 488. Those courses are referenced in item 3. below.
2. Students in the Interdisciplinary Studies in Social Science: Social Science Education major are not required to complete the College of Social Science requirements referenced under the heading *Graduation Requirements for the Bachelor of Arts and Bachelor of Science Degrees in the College of Social Science* section of this catalog.
3. The following requirements for the major:

CREDITS

a.	All of the following courses (43 credits):	
EC	201	Introduction to Microeconomics 3
EC	202	Introduction to Macroeconomics 3
GEO	204	World Regional Geography 3
GEO	221	Introduction to Geographic Information 3
GEO	330	Geography of the United States and Canada 3
HST	140	World History to 1500 4
HST	150	World History since 1500 4
HST	201	Historical Methods and Skills 3
HST	202	U.S. History to 1876 4
HST	203	U.S. History since 1876 4
HST	320	History of Michigan 3
PLS	100	Introduction to American National Government 3
PLS	140	Government and Politics of the World 3
b.	One of the following courses (3 credits):	
HST	310	African American History to 1876 3
HST	311	African American History since 1876 3
HST	312	African American Women 3
HST	313	Women in the United States to 1869 3
HST	314	Women in the United States since 1869 3
HST	327	History of Mexican Americans in the United States 3
HST	378	Native Americans in North American History to 1830 3
HST	379	Native Americans in North American History from 1830 3
c.	One of the following courses (3 credits):	
PLS	313	Public Policy Analysis 3
PLS	320	The American Judicial Process 3
PLS	321	American Constitutional Law 3
PLS	324	American Legislative Process 3
PLS	325	American Executive Process 3
d.	One of the following courses (3 credits):	
HST	480	Seminar in American History (W) 3
HST	481	Seminar in Ancient History (W) 3
HST	482	Seminar in Medieval History (W) 3
HST	483	Seminar in Modern European History (W) 3
HST	484	Seminar in African History (W) 3
HST	485	Seminar in Asian History (W) 3
HST	486	Seminar in Latin American History (W) 3
HST	487	Seminar in Comparative History (W) 3
HST	488	Seminar in International Relations (W) 3
e.	Completion of the requirements for <i>Teacher Certification</i> in the Department of Teacher Education, which includes all of the following courses (20 credits):	
TE	150	Reflections on Learning 3
TE	250	Human Diversity, Power, and Opportunity in Social Institutions 3
TE	302	Learners and Learning in Contexts – Secondary (W) 4
TE	407	Teaching Subject Matter to Diverse Learners – Secondary (W) 5
TE	408	Crafting Teaching Practices – Secondary (W) 5
f.	The following course if the teaching major and minor are in different subject matter:	
TE	409	Crafting Teaching Practices in the Secondary Teaching Minor 1

INTERDEPARTMENTAL GRADUATE SPECIALIZATIONS

GRADUATE SPECIALIZATION IN ENVIRONMENTAL POLICY

The Graduate Specialization in Environmental Policy, which is administered by the College of Social Science, provides students with foundational skills and knowledge in environmental law, economics and policy and an opportunity to gain substantive expertise in the fundamental aspects of environmental policy.

The graduate specialization is available as an elective to students who are enrolled in master's or doctoral degree programs at Michigan State University. With the approval of department and college that administer the student's degree program, the courses that are used to satisfy the specialization may also be used to satisfy the requirements for the master's or doctoral degree.

Students who plan to complete the requirements for the graduate specialization must consult the graduate advisor for the specialization in the College of Social Science.

Requirements for the Graduate Specialization in Environmental Policy

Complete a total of 9 credits from the following:

CREDITS

1.	Both of the following courses:	
	AEC 829	The Economics of Environmental Resources 3
	PPL 807	Public Policy 3
2.	Complete 3 credits of additional course work that focus on policy that meets the interests of the student. The course must be approved by the student's academic advisor for the specialization.	
3.	Completion of an examination consisting of a paper on the environmental policy aspects of a problem selected by the student and approved by the advisor for the specialization.	

GRADUATE SPECIALIZATION IN ENVIRONMENTAL SCIENCE AND POLICY

The Graduate Specialization in Environmental Science and Policy, which is administered by the College of Social Science, is available as an elective to students enrolled in doctoral degree programs in departments and programs emphasizing environmental science or policy. The goal of the specialization is to provide doctoral students with opportunities to develop cross-disciplinary literacy, learn to integrate information from diverse disciplines, and conduct analyses of environmental issues in ways that support better decision-making about environmental issues. The specialization encourages students to develop analytical skills that span both disciplines and spatial and temporal scales and equips them to communicate across disciplines. It prepares students to engage in research, teaching and service focused on complex environmental problems and to develop and disseminate sound analyses to improve environmental decision-making.

Students who are interested in this specialization must contact an advisor for the Graduate Specialization in Environmental Science and Policy in the Environmental Science and Policy Program. To be admitted to the specialization, a student must also be admitted to a doctoral program at Michigan State University.

With the approval of the department and college that administer the student's degree program, courses that are used to satisfy the requirements for the specialization may also be used to satisfy the requirements for a doctoral degree.

SOCIAL SCIENCE
Interdepartmental Graduate Specializations

Requirements for the Graduate Specialization in Environmental Science and Policy

Complete all the following courses (9 to 12 credits):

	CREDITS
1. ESP 800 Principles of Environmental Science and Policy	3
2. A 3-credit 800-900 level natural science/engineering course from a list of approved courses available on the Environmental Science and Policy program Web site.	
3. A 3-credit 800-900 level social science/policy course from a list of approved courses available on the Environmental Science and Policy program Web site.	
4. Capstone Experience. One of the following:	
a. ESP 804 Environmental Applications and Analysis	3
b. Participate in an internship, approved in advance by the advisor for the program.	
c. Write a white paper, approved in advance by the advisor for the program.	
5. Attend monthly student seminars as directed by the advisor for the program.	

Students may apply to waive either the natural science or social science/policy course requirement if they demonstrate competence. Students should contact the advisor for the program to apply for a waiver.

GRADUATE SPECIALIZATION IN GLOBAL URBAN STUDIES

The Graduate Specialization in Global Urban Studies, which is administered by the College of Social Science, offers interdisciplinary doctoral-level study, integrated with programs offered by disciplinary departments and is available as an elective to students who are enrolled in doctoral degree programs at Michigan State University.

The Graduate Specialization in Global Urban Studies addresses political, spatial, cultural, and economic processes and issues in urban areas across the United States and the world, as well as the global processes that impact and unite urban areas. Course work includes foci on urban areas in the United States and abroad; urban areas in comparative context regionally, nationally and internationally; and how the forces of globalization change urban areas.

With the approval of the department and college that administers the student's degree program, the courses that are used to satisfy the specialization may also be used to satisfy the requirements for the doctoral degree.

Requirements for the Graduate Specialization in Global Urban Studies

	CREDITS
1. Both of the following courses:	6
SSC 800 The World System of Cities	3
SSC 886 Global Urban Research Practicum	3
2. Complete two of the following courses. Each course must be from a different sphere. Students may select other courses from other departments or disciplines with the approval of the specialization advisor. (6 or 7 credits)	
Political Sphere	
PLS 808 Issues in Urban Policy and Services	3
PLS 822 Urban Government and Politics	3
Spatial Sphere	
GEO 413 Urban Geography	3
GEO 453 Metropolitan Environments: Urban Form and Land Use .	3
UP 823 Urban Land Management	4
Social/Cultural Sphere	
ANP 815 Transnational Processes and Identities (D)	3
HST 410 History of Western Urbanization	3
SOC 838 Comparative Urban Theory	3
Economic Sphere	
AEC 991 Advanced Topics in Agricultural Economics	3
EC 840 International Trade: Theory and Commercial Policy	3

INTERDEPARTMENTAL GRADUATE SPECIALIZATION IN INFANCY AND EARLY CHILDHOOD

The Interdepartmental Graduate Specialization in Infancy and Early Childhood is available as an elective for students who are enrolled in master's and doctoral degree programs in the departments of Anthropology, Audiology and Speech Sciences; Counseling, Educational Psychology and Special Education; Family and Child Ecology; Food Science and Human Nutrition; Kinesiology; Psychology; and Sociology, in the Educational Specialist degree program in the Department of Counseling, Educational Psychology and Special Education; in the Master of Social Work degree programs in the School of Social Work; in the Master of Science in Nursing degree program in the College of Nursing; and in the graduate-professional degree programs in the College of Human Medicine and the College of Osteopathic Medicine. The College of Social Science administers the specialization in collaboration with the School of Social Work, the cooperating units, an executive committee, and an advisory committee comprised of faculty members from each participating unit.

The quality of life during the first five years of human development provides the foundation upon which all subsequent development is built. As a result of advances in biomedical technology, social-cultural conditions, and legislation, increasing attention is being directed toward the optimal development of infants and their families.

The specialization is designed to prepare practitioners to meet the challenges of service delivery for very young children and their families and is based on the philosophy that a interdisciplinary educational program is the best educational experience for professionals who will work with infants, very young children, and their families. The specialization is also designed to provide a knowledge base that will facilitate the work of graduates who pursue careers in agencies, institutions, and government organizations that offer services to very young children, as well as those who pursue careers in teaching and research relevant to the needs of infants, very young children, and their families.

The Interdepartmental Graduate Specialization in Infancy and Early Childhood will:

1. Provide an opportunity for graduate students to obtain a comprehensive and contemporary academic experience in the field of infancy and early childhood development.
2. Help graduate students with an interest in working with very young children to become aware of their professional obligations and responsibilities.
3. Develop an intellectual environment that will foster the growth of research and teaching in the area of human infancy and early childhood development, as well as sensitize students to clinical, educational, and social policy issues related to early human development.
4. Increase public awareness of the critical importance of the early years of human development.

A student who is enrolled in a master's, educational specialist, doctoral, or graduate-professional degree program in one of the 12 participating academic units and who wishes to complete the requirements for an Interdepartmental Graduate Specialization in Infancy and Early Childhood should send their application to the director of the specialization. Qualified applicants must have a minimum grade-point average of 3.0. Once accepted into the specialization, students must identify a faculty member from their own discipline who is able to oversee their study in infancy and early childhood development, and to chair their guidance committee. Students are encouraged to actively solicit input from at least one faculty member from a discipline other than their home department, who will serve as a representative on the student's guidance committee.

Students should work closely with their advisors within their academic units to develop meaningful experiences that are directly related to infancy and early childhood development studies. Credits that are used to meet the requirements for the specialization may also be counted toward the requirements for the student's degree program at the discretion of the academic unit in which the student is enrolled.

Students who are pursuing the Interdepartmental Graduate Specialization in Infancy and Early Childhood are required to attend monthly seminars with members of the specialization faculty, staff, and other students in the program.

Requirements for the Specialization in Infancy and Early Childhood

Students must complete a minimum of 12 credits for the Graduate Specialization in Infancy and Early Childhood. The student's program of study must be approved by the student's guidance committee. The student must:

1. Master competencies through a variety of experiences including completion of a portfolio that demonstrates mastery of infancy and early childhood foundations, and a final oral or written examination across the following areas: theory, practice, policy, and research.
2. Complete 12 credits of course work including:
 - a. **Master's students.** A minimum of 4 credits of the Graduate Specialization in Infancy and Early Childhood seminar. Students should enroll in an 890 Independent Study through their home department. If an 890 course is not available, students may enroll for SW 890 Independent Study.
 - b. **Doctoral students.** A minimum of 6 credits of the Graduate Specialization in Infancy and Early Childhood seminar. Students should enroll in an 890 Independent Study through their home department. If an 890 course is not available, students may enroll for SW 890 Independent Study.
 - c. All students are required to complete an additional 6 to 8 credits of course work from two disciplines outside of their home unit. Students may choose courses from the following:

Anthropology	
ANP 423 Psychological Anthropology	3
ANP 470 Food, Hunger, and Society	3
Audiology and Speech Sciences	
ASC 823E Assessment of Child Language Disorders	3
ASC 823F Language Intervention: Early Stages	3
ASC 823G Language Intervention: Later Stages	3
ASC 991 Special Topics in Communication Sciences and Disorders	3
ASC 992 Seminar in Communication Sciences and Disorders	3
Counseling, Educational Psychology and Special Education	
CEP 801 Psychological Development: Learner Differences and Commonalities	3
CEP 903 Cognitive Development Across the Lifespan	3
CEP 904 Social-Emotional Development across the Lifespan	3
Family and Child Ecology	
FCE 411 Developmental Study of a Child	2
FCE 811 Child Development: Ecological Perspectives	3
FCE 814 Parenthood and Parent Education	3
FCE 821 Early Childhood Education: Curricular Approaches	3
FCE 822 Assessment of the Young Child	3
FCE 823 Infant Programs and Practices	3
FCE 825 Families with Special Needs Children: An Ecological Perspective	3
FCE 838 Early Literacy Development	3
FCE 845 Foundations of Family Study	3
FCE 895 Families in Poverty	3
FCE 896 Child Development Across Cultures	3
FCE 898 Play in Human Development	3
Human Nutrition and Foods	
HNF 453 Nutrition and Human Development	3
HNF 840 Human Nutrition and Chronic Diseases	3
Kinesiology	
KIN 860 Growth and Motor Behavior	3
KIN 890 Independent Study in Kinesiology	3
KIN 893 Internship in Kinesiology	3
KIN 894 Field Experience in Kinesiology	3
KIN 990 Independent Study in Kinesiology	3
Pediatrics and Human Development	
PHD 523 Genetics for Medical Practice	1
Psychology	
PSY 424 Child and Family Psychopathology	3
PSY 829 Child and Family Assessment	4
PSY 950 Advanced Child and Family Interventions	3
PSY 992 Seminar in Psychology	3
Sociology	
SOC 475 Sociology of Health Care Systems	3
SOC 476 Social Psychology of Health	3
Social Work	
SW 811 Social Work Perspectives in Human Development	3
SW 822A Social Welfare Policy and Services: Children, Youth, and Families	3

SW 873 Social Work in Educational Settings	3
SW 874 Assessment and Testing in School Social Work	3
SW 875 School Social Work Intervention: Children with Special Needs	3
SW 891 Special Topics in Graduate Social Work	3

3. Complete a semester-long internship.

GRADUATE SPECIALIZATION IN INTERNATIONAL DEVELOPMENT

The Graduate Specialization in International Development are available as electives for students who are enrolled in master's and doctoral degree programs at Michigan State University. The College of Social Science administers the specialization. The graduate academic advisor for international development, located in the college, coordinates the specialization on behalf of the Dean.

The Specialization in International Development is designed to:

1. Provide an opportunity for graduate students to obtain a comprehensive and contemporary academic experience in the field of international development studies.
2. Sensitize graduate students with an interest in development studies to their professional obligations and responsibilities.
3. Develop an intellectual environment that will foster the growth of research and teaching in the area of development studies.

The graduate academic advisor for international development in the College of Social Science is responsible for establishing a guidance committee for the specialization for each student. With the approval of the graduate academic advisor for international development in the College of Social Science, a guidance committee that has responsibility for overseeing a student's master's or doctoral degree program will normally oversee the student's program of study for the specialization. At least one member of the committee must be a member of the international development core faculty who will serve as the student's academic advisor for the specialization.

Students who elect the specialization may be required to study the foreign language most relevant to their educational and career objectives, to acquire practical experience in development work, and to complete courses in addition to the courses that are used to satisfy the requirements for the specialization.

Although separate graduate specializations in international development have been established for master's and doctoral students, a given student may receive certification of completion of *either* the specialization for master's students *or* the specialization for doctoral students, but not for both of the specializations.

With the approval of the department or school and college that administer the student's degree program, the courses that are used to satisfy the requirements for the specialization may also be used to satisfy the requirements for the degree.

Requirements for the Graduate Specialization in International Development

The student must complete a concentration within international development such as gender and health, gender and work, rural development, environment and development, development administration, nongovernmental organizations in development, or politics of development. Any course that was used to satisfy the requirements for the undergraduate Specialization in International Development may *not* be used to satisfy the requirements for the Graduate Specialization in International Development. The student's program of study must be approved by the student's guidance committee for the specialization and must meet the requirements specified below:

CREDITS

Master's Student: The student must complete 12 credits as outlined below. At least half of the credits must come from outside the student's major.

- (1) Complete two of the Core Courses listed below. Only one of the courses may be at the 400 level.

SOCIAL SCIENCE

Interdepartmental Graduate Specializations

- (2) Complete at least two additional courses, of at least 3 credits each, which are relevant to the student's concentration within international development. 6
- Doctoral Student: The student must complete 18 credits as outlined below:
- (1) Complete two of the Core Courses listed below. Only one of the courses may be at the 400 level. 6
- (2) Complete at least four additional courses, of at least 3 credits each, which are relevant to the student's concentration within international development. 12
- (3) Pass a written comprehensive examination on the student's concentration within international development. With the approval of the department or school and college that administer the student's degree program, this examination may be incorporated into the comprehensive examinations that are required for the degree.

Core Courses:

	CREDITS
AEC 861 Agriculture in Economic Development	3
ANP 867 Archaeological Theory	3
EC 410 Issues in the Economics of Developing Countries	3
GEO 454 Spatial Aspects of Regional Development	3
PLS 853 Political Economy of Development Policy	3
RD 826 International Development and Sustainability.	3
SOC 832 International Inequality and Development	3
WS 403 Women and Change in Developing Countries	3

INTERDEPARTMENTAL GRADUATE SPECIALIZATION IN COGNITIVE SCIENCE

The Interdepartmental Graduate Specialization in Cognitive Science are available for students who are enrolled in master's and doctoral degree programs in Audiology and Speech Sciences; Computer Science; Ecology, Evolutionary Biology and Behavior; Geography; Linguistics and Germanic, Slavic, Asian and African Languages; Neuroscience; Philosophy; Physics and Astronomy; Physiology; Psychiatry; Psychology; Telecommunication; and Zoology. The College of Social Science administers the specialization.

One of the most important remaining mysteries in science is the nature of mind, whether mind be embodied in the neurons of the brain or in the silicon stuff of computer chips in an artificial brain-like system. Cognitive Science explores how biological systems process information to produce thought and adaptive behavior and whether artificial systems can be endowed with the same capabilities. The scientific study of the nature of mind requires a concerted effort by investigators from many different theoretical perspectives, empirical traditions, and academic disciplines. The program will make available to students an interdisciplinary field that encompasses approaches to solving the problems of understanding the mind from a number of sharply different directions. Students will learn about, and engage in, research on these problems under more than one disciplinary umbrella. The specialization is supervised by the Cognitive Science Graduate Affairs Committee.

Students seeking admission to the specialization must contact the Director of the Cognitive Science Program. To be admitted, a student must have completed a bachelor's degree with a grade-point average of at least 3.0 and have been admitted to a master's or doctoral program in one of the participating departments. Students should submit a cover letter and a personal statement describing their interest in cognitive science and their objectives in seeking admission. Additional documentation may be requested.

Requirements for the Specialization in Cognitive Science

The Specialization in Cognitive Science is offered at both the master's and the doctoral level. No student may receive certification at both levels. During the first year of the master's or doctoral program, the student and the major professor select a guidance committee to assist in planning both the student's degree program and specialization. At least one member of a master's student's guidance committee and two members of a doctoral student's guidance committee shall be members of the Cognitive Science faculty, with one of the latter from a discipline outside the student's major department.

Credits that are used to meet the requirements of the specialization may also be used to satisfy the requirements for the student's major at the discretion of the department or college. Courses that are used to satisfy the requirements for the specialization must be approved by the student's guidance committee and should demonstrate competence in at least two areas of cognitive science.

Master's Students must:

1. Complete 18 credits of course work as specified below.
2. Participate in a research project **outside** their major department, either by completing one semester of work in a laboratory project or by enrolling in an independent study course involving collaborative work with a member of the cognitive science faculty.

Plan A students will also complete a thesis reflecting the integration of the student's discipline and Cognitive Science.

Doctoral Students must:

1. Complete 18 credits or course work as specified below.
2. Participate in a research project **outside** their major department, either by completing one semester of work in a laboratory project or by enrolling in an independent study course involving collaborative work with a member of the cognitive science faculty.
3. Complete a dissertation that reflects the integration of the student's discipline and Cognitive Science.

Required Core Courses

PSY 863 Seminar in Cognitive Science.	1
At least 16 additional credits in courses relevant to Cognitive Science.	
At least 6 of these credits, chosen from the following, must be in courses outside the student's major.	
ASC 813 Neuroanatomy and Neurophysiology of Speech, Language, and Hearing	3
ASC 823A Acquired Language Disorders	3
ASC 914A Speech Production and Perception I	4
ASC 914B Speech Production and Perception II	4
CSE 802 Pattern Recognition and Analysis.	4
CSE 803 Computer Vision	3
CSE 841 Artificial Intelligence	3
CSE 845 Knowledge-Based Systems	4
CSE 847 Machine Learning	3
CSE 848 Evolutionary Computation.	3
CSE 885 Artificial Neural Networks	3
CSE 941 Selected Topics in Artificial Intelligence	3
LIN 824 Phonological Theory I.	3
LIN 834 Syntactic Theory I	3
LIN 837 Advanced Studies in Semantics and Pragmatics	3
LIN 850 Advanced Studies in Child Language Acquisition	3
PHL 860 Seminar in Metaphysics and Epistemology	3
PHL 880 Seminar in Philosophy of Science	3
PSY 801 Sensation and Perception.	3
PSY 802 Basic Cognitive Processes	3
PSY 803 Higher Order Cognitive Processes	3
PSY 814 Psycholinguistics	3
PSY 851 Neuropsychology	4
ZOL 822 Topics in Ethology and Behavioral Ecology	3

Other course may be substituted with prior approval of the Cognitive Science Graduate Affairs Committee.

DEPARTMENT of ANTHROPOLOGY

Jodie A. O’Gorman, Chairperson

Anthropology takes humans and their cultures, throughout the world and through the entirety of human history, as its central object of study. This field gives students a framework for understanding their place in the natural world. It examines humanity’s evolutionary background and development, the organization of social and cultural life, the nature of culture as a system of meaning to organize and interpret experience, the evolution of societies, and the interrelationships between culture and shared ways of thinking and feeling.

Major points of orientation within anthropology include the search for patterning of cultural behavior amidst the immense variation found within and among cultures, the study of principles of cultural dynamics, the analysis of processes of change and stability within social and cultural structures, cross-cultural comparisons of different societies, the study of patterns of development of societies from simple to complex, and the functioning of cultural institutions as parts of overall sociocultural systems.

Anthropology views the world of humanity’s many cultures as a natural laboratory in which a multitude of varied historical adaptations have developed and are continuing to evolve, the study of which can help in the understanding of human behavior and the course of history. Providing an excellent foundation for a diverse, liberal education, the study of anthropology also contributes to the preparation of students for careers in education, medicine, business and industry, government service, and other walks of life in which a broad knowledge of cultural dynamics, ethnic diversity and human relations is important.

The department offers courses in archaeology, cultural anthropology, linguistic anthropology, medical anthropology, forensic anthropology, and bioarchaeology.

Visit www.anthropology.msu.edu.

UNDERGRADUATE PROGRAM

Requirements for the Bachelor of Arts Degree in Anthropology

- The University requirements for bachelor’s degrees as described in the *Undergraduate Education* section of this catalog; 120 credits, including general elective credits, are required for the Bachelor of Arts degree in Anthropology.
The University’s Tier II writing requirement for the Anthropology major is met by completing Anthropology 489. That course is referenced in item 3. a. below.
- The requirements of the College of Social Science for the Bachelor of Arts degree.

	CREDITS
3. The following required major courses:	30
a. All of the following courses:	
ANP 201 Introduction to Cultural Anthropology	3
ANP 203 Introduction to Archaeology	3
ANP 206 Introduction to Physical Anthropology	3
ANP 489 Anthropology Capstone Course (W)	3
b. One area course from Anthropology 410, 411, 414, 415, 416, 417, 419, 432, 433, 451, 452, 453, 455.	
c. One topical/analytical course from Anthropology 320, 321, 325, 330, 362, 363, 364, 370, 420, 422, 423, 425, 426, 428, 430, 431, 436, 439, 440, 441, 443, 461, 462.	
d. One anthropological methods course selected from Anthropology 429, 441, 463, and 464.	
e. Four additional Anthropology courses, at least three of which must be at the 300–400 level. Anthropology 101 may not be used to meet this requirement.	

Requirements for the Bachelor of Science Degree in Anthropology

- The University requirements for the bachelor’s degrees as described in the *Undergraduate Education* section of this catalog; 120 credits, including general elective credits, are required for the Bachelor of Science degree in Anthropology.
The completion of Statistics and Probability 200, 201, or 421, referenced in item 3. g. below may also satisfy the University mathematics requirement or the Department of Anthropology NATURAL SCIENCE REQUIREMENT, but not both.
The University’s Tier II writing requirement for the Anthropology major is met by completing Anthropology 489. That course is referenced in item 3. a. below.
- The College of Social Science requirements for the Bachelor of Science degree.

	CREDITS
3. The following requirements for the major:	30
a. All of the following courses (12 credits):	
ANP 201 Introduction to Cultural Anthropology	3
ANP 203 Introduction to Archaeology	3
ANP 206 Introduction to Physical Anthropology	3
ANP 489 Anthropology Capstone Course (W)	3
b. One area course from Anthropology 410, 411, 414, 415, 416, 417, 419, 432, 433, 451, 452, 453, 455.	
c. One topical/analytical course from Anthropology 320, 321, 325, 330, 362, 363, 364, 370, 420, 422, 423, 425, 426, 428, 430, 431, 436, 439, 440, 441, 443, 461, 462.	
d. One anthropological methods course selected from Anthropology 429, 441, 463, 464.	
e. Four additional Anthropology courses, at least three of which must be at the 300–400 level. Anthropology 101 may not be used to meet this requirement.	
f. Fifteen additional credits in courses offered by a department or program in the College of Natural Science, chosen from at least two of the following: Biochemistry and Molecular Biology, Biological Science, Chemistry, Geological Sciences, Mathematics, Microbiology and Molecular Genetics, Physics and Astronomy, Plant Biology, Physiology, Statistics and Probability, and Zoology. Relevant natural science courses offered through any other college may be taken with the approval of the student’s academic advisor.	
g. One statistics and probability course selected from STT 200, 201, 421; or PSY 295.	

MINOR IN ANTHROPOLOGY

The Minor in Anthropology, which is administered by the Department of Anthropology, provides a basic foundation for the breadth of study within the field of anthropology, and a grounding in general anthropological theory. Students obtain knowledge of at least one advanced topic in the field and command of the anthropological literature in at least one geographical area.

This minor is available as an elective to students who are enrolled in bachelor’s degree programs at Michigan State University other than the Bachelor of Arts or Bachelor of Science Degree in Anthropology. With the approval of the department and college that administer the student’s degree program, the courses that are used to satisfy the minor may also be used to satisfy the requirements for the bachelor’s degree.

Students who plan to complete the requirements of the minor should consult the undergraduate advisor in the Department of Anthropology.

Requirements for the Minor in Anthropology

	CREDITS
Complete 18 credits in the Department of Anthropology from the following:	
1. Both of the following courses (6 credits):	
ANP 201 Introduction to Cultural Anthropology	3
ANP 320 Social and Cultural Theory	3
2. The following course (3 credits):	
ANP 206 Introduction to Physical Anthropology	3
3. One of the following courses (3 credits):	
ANP 203 Introduction to Archaeology	3
ANP 363 Rise of Civilization	3
4. Complete 3 credits in an area course chosen from a list of approved courses available from the undergraduate advisor.	
5. Complete 3 credits in a topics course chosen from a list of approved courses available from the undergraduate advisor.	

GRADUATE STUDY

The Department of Anthropology offers programs of study leading to the Master of Arts and Doctor of Philosophy degrees.

Graduate education in Anthropology at MSU is directed toward development of high achievement in scholarship among a new generation of anthropologists, including a commitment to research, public engagement, and the ethical practice of anthropology. The Department of Anthropology at MSU takes pride in the diversity of our own community of scholars, including our graduate students and faculty, and is committed to maintaining and supporting this diversity both in our department and in the profession. The department also emphasizes the importance of collaborative work with the people and communities whom we study, and the need to share our research with a variety of audiences.

Students who are enrolled in Master of Arts and Doctor of Philosophy degree programs in the Department of Anthropology may elect specializations in Infancy and Early Childhood. For additional information, refer to the statement on *Interdepartmental Graduate Specializations in Infancy and Early Childhood*.

Master of Arts

In addition to meeting the requirements of the university and of the College of Social Science, students must meet the requirements specified below.

Admission

Students applying for admission to the master's program in anthropology will be considered regardless of the field of their previous academic training. It is, however, recommended that students have earned at least 12 undergraduate credits in anthropology before entering the program. Admission on other than a provisional status is normally contingent upon the possession of a bachelor's degree from a recognized college or university, and a junior–senior undergraduate grade–point average of 3.0 or better in academic studies.

Requirements for the Master of Arts Degree in Anthropology

The program is available under both Plan A (with thesis) and Plan B (without thesis). The student must complete a total of 30 credits distributed as follows:

Requirements for Both Plan A and Plan B

	CREDITS
1. Both of the following courses (6 credits):	
ANP 830 Cultural and Linguistic Anthropological Theory: Key Issues and Debates	3
ANP 840 Biocultural Evolution	3
2. One of the following courses (3 credits):	
ANP 420 Language and Culture	3
ANP 820 Language and Cultural Meaning	3
This requirement may be waived by the department on the basis of prior course work.	
3. Completion of a methods course appropriate for the student's subdiscipline. The course must be approved by the student's guidance committee.	
4. Completion of additional elective credits approved by the student's guidance committee. At least 21 of the 30 credits required for the degree must be earned in Anthropology.	

Additional Requirements for Plan A

1. Complete 4 credits of Anthropology 899 Master's Thesis Research.
2. Prepare an approved thesis proposal.
3. Pass an oral examination in defense of the thesis.

Additional Requirements for Plan B

1. Pass a final evaluation with a guidance committee of at least three faculty, at least two of whom should be from the Department of Anthropology.

Doctor of Philosophy

In addition to meeting the requirements of the university and of the College of Social Science, students must meet the requirements specified below.

Admission

Incoming graduate students apply to and are accepted into the master's degree program. At the time of the student's second-year program review, students are evaluated by the faculty for advancement into the doctoral program. In exceptional circumstances, a student may petition for earlier review.

Requirements for the Doctor of Philosophy Degree in Anthropology

	CREDITS
Students must complete the following:	
1. Both of the following courses (6 credits):	
ANP 830 Cultural and Linguistic Anthropological Theory: Key Issues and Debates	3
ANP 840 Biocultural Evolution	3
2. One of the following courses (3 credits):	
ANP 420 Language and Culture	3
ANP 820 Language and Cultural Meaning	3
This requirement may be waived by the department on the basis of prior course work.	
3. Completion of a methods course appropriate for the student's subdiscipline. The course must be approved by the student's guidance committee.	
4. Completion of additional elective credits approved by the student's guidance committee.	
5. Successful completion of the comprehensive examination, including preparation of a dissertation research proposal.	
6. Successful completion of 24 credits of ANP 999 Doctoral Dissertation Research and defense of the doctoral dissertation.	

PROFESSIONAL APPLICATIONS IN ANTHROPOLOGY

Master of Arts

The Master of Arts in Professional Applications in Anthropology will allow students to select a flexible but highly focused plan of study to prepare for positions as practicing anthropologists in government or the private sector. In addition to specialized training within the field of anthropology, students will be expected to elect courses in a field related to the practice of anthropology such as geographical information systems (GIS), cartography, resource development, management of nonprofit organizations, museum studies, or another practice-oriented specialty that is approved by the student's guidance committee. Students will also obtain experience as practicing professionals.

This program includes three areas of professional development: (1) in-depth knowledge of the discipline of anthropology; (2) demonstrated command of communication and presentation skills, as shown in the writing and public presentation of a master's paper; (3) demonstrated practical experience, obtained either as part of past employment, or as an internship within the public or private sector.

In addition to meeting the requirements of the university and the College of Social Science, students must meet the requirements specified below.

Admission

Students applying for admission to the master's program in professional applications in anthropology will be considered regardless of the field of their previous academic training. It is, however, recommended that students have earned at least 12 undergraduate credits in anthropology before entering the program. Admis-

sion on other than a provisional status is normally contingent upon the possession of a bachelor's degree from a recognized college or university, and a junior-senior undergraduate grade-point average of 3.0 or better in academic studies.

Requirements for the Master of Arts Degree in Professional Applications in Anthropology

Students who are enrolled in the Master of Arts degree program with a major in Professional Applications in Anthropology must complete a minimum of 30 credits, 15 which must be earned in anthropology, under Plan B (without thesis). The student's program of study must be approved by the student's guidance committee. Normally students complete the requirements for the Master of Arts degree in two years.

The student must meet the following requirements:

1. Completion of Anthropology 840, 855, and 901.
2. A methods course in anthropology.
3. Completion of additional courses in anthropology and other disciplines.
4. Satisfactory completion and presentation of a master's paper, which is submitted to the Department.
5. Completion of an approved internship, Anthropology 900, unless this requirement is specifically waived by the student's guidance committee.

RESEARCH OPPORTUNITIES

The African, Asian, and Latin American Studies Centers offer unique opportunities for the support of anthropological research. The University Museum, International Studies and Programs, the Center for Advanced Studies in International Development (CASID), the Office of Women in Development (WID), the Agricultural Experiment Station, Urban Affairs Programs, the Hispanic Research Institute, and the Midwest Universities Consortium for International Activities, Incorporated (MUCIA), also support research. A program of study may be developed in cooperation with the College of Human Medicine.

SCHOOL of CRIMINAL JUSTICE

Mary Finn, Director

Free and democratic society requires a commitment to safety and security as well as to core values of justice, equity, and civil liberty. Indeed, the appropriate balance of security and liberty is an ongoing challenge of free societies. Public and private agencies at various levels provide for security, safety, justice, and freedom through efforts to prevent crime and to appropriately respond to crime when it does occur.

The academic study of criminal justice through the Bachelor of Arts, Master of Science, and Doctor of Philosophy degree programs in the School of Criminal Justice is based on the belief that the study of the causes of crime and delinquency must be combined with the study of the institutions and processes involved in the prevention and response to crime and delinquency. Additionally, the systematic study of crime, criminal behavior, and criminal justice and security processes should be informed by multidisciplinary theory and research. The challenges posed by crime and security in contemporary society necessitate well-educated professionals prepared for careers in criminal justice, security, and related areas.

The School of Criminal Justice offers an undergraduate minor in security management, graduate specializations in security management, forensic science, and in judicial administration, and Master of Science degrees in Criminal Justice, Forensic Science, Law Enforcement Intelligence and Analysis, and Judicial Administration; and a Doctor of Philosophy degree in Criminal Justice.

UNDERGRADUATE PROGRAMS

Bachelor of Arts

CRIMINAL JUSTICE

The Bachelor of Arts degree program in criminal justice is designed to prepare students for entry level positions in public and private agencies identified with criminal justice administration. Such agencies apprehend offenders, adjudicate alleged offenses, redirect emergent criminal careers, and promote industrial and commercial security. Such agencies also encourage and emphasize community responsibility for the success of their programs.

The bachelor's program in criminal justice provides a basic orientation to the institutions and processes of criminal justice and offers students wide exposure to all of the major disciplines of the criminal justice system. The program promotes general knowledge through core and social science courses. It provides students with the opportunity to pursue interests in the following areas: juvenile justice, police administration, adult corrections, and security.

Requirements for the Bachelor of Arts Degree in Criminal Justice

1. The requirements of the University as described in the *Undergraduate Education* section of this catalog; 120 credits, including general elective credits, are required for the Bachelor of Arts degree in Criminal Justice.
The University's Tier II writing requirement for the Criminal Justice major is met by completing one of the following courses: Criminal Justice 424, 426, 427, 430, 445, 465, or 485. Those courses are referenced in item 3. a. (3) below.
2. The requirements of the College of Social Science for the Bachelor of Arts degree.
3. The following requirements for the major:

	CREDITS
a. The following courses in the School of Criminal Justice:	30
(1) All of the following Prerequisite Courses (12 credits):	
CJ 110 Introduction to Criminal Justice	3
CJ 220 Criminology	3
CJ 275 Criminal Procedure	3
CJ 292 Methods of Criminal Justice Research	3
(2) Two of the following courses (6 credits):	
CJ 335 Policing	3
CJ 365 Corrections	3
CJ 355 Juvenile Justice	3
CJ 385 Private Security	3
(3) Twelve credits from the following courses including 3 credits in Criminal Justice 424, 427, 430, 445, 465, or 485. At least 9 credits must be at the 400-level.	
CJ 210 Introduction to Forensic Science	3
CJ 235 Investigation Procedures	3
CJ 400H Honors Study	1 to 3
CJ 422 Comparative and Historical Criminal Justice	3
CJ 424 Crime, Mass Media, and Society (W)	3
CJ 425 Women and Criminal Justice	3
CJ 426 Violence Against Women (W)	3
CJ 427 Criminology and Public Policy (W)	3
CJ 429 Interdisciplinary Topics in Cybersecurity	3
CJ 430 Advanced Seminar in Policing (W)	3
CJ 432 Community Policing	3
CJ 433 Law Enforcement Intelligence Operations	3
CJ 434 Police Administration	3
CJ 439 Homeland Security	3
CJ 445 Cyber-Crime and Cyber-Security (W)	3
CJ 465 Critical Issues in Corrections (W)	3
CJ 466 Corrections Organizations and Systems	3
CJ 471 Law of Corrections	3
CJ 473 Comparative Constitutional Law	3
CJ 474 Law and Criminal Justice Policy	3

SOCIAL SCIENCE
School of Criminal Justice

CJ	485	Critical Issues in Private Security	3
CJ	490	Independent Study	1 to 3
CJ	491	Topics in Criminal Justice	2 to 4

MINOR IN SECURITY MANAGEMENT

The complexities of modern society have combined to generate a variety of threats to business organizations, information networks, government installations and operations, and individuals. The Minor in Security Management is designed for students who are interested in private and government security.

The minor, which is administered by the School of Criminal Justice, is available as an elective to students who are enrolled in bachelor's degree programs at Michigan State University. The minor should be of particular interest to students who are enrolled in certain programs in the Eli Broad College of Business and the College of Social Science, and to students who are enrolled in the Bachelor of Science degree program in Computer Science.

The Minor in Security Management is designed to help students to understand:

1. The business and technical aspects of protecting private and government assets.
2. The administrative, management, technical, and legal problems of asset protection and loss prevention.
3. Concepts related to protecting personal and personnel rights, proprietary information, facilities, and other assets of an organization.
4. Security's relationship to the value of freedom and democratic principles in our society.

With the approval of the department or school and college that administer the student's degree program, the courses that are used to satisfy the requirements for the minor may also be used to satisfy the requirements for the bachelor's degree.

Requirements for the Minor in Security Management

The student must complete:

	CREDITS
1. All of the following courses (12 credits):	
ACC 230 Survey of Accounting Concepts	3
CJ 235 Investigation Procedures	3
CJ 385 Private Security	3
CJ 485 Critical Issues in Private Security (W)	3
2. One of the following courses (3 credits):	
CJ 429 Interdisciplinary Topics in Cyber Security	3
CJ 445 Cyber-Crimer and Cyber-Security (W)	3
3. One of the following courses (3 credits):	
CSE 101 Computing Concepts and Competencies	3
FI 320 Introduction to Finance	3
MGT 325 Management Skills and Processes	3
MKT 327 Introduction to Marketing	3

GRADUATE STUDY

The School of Criminal Justice is at the forefront of education in the nature of crime, administration of criminal justice, security management and administration, and the legal system. Throughout the program there is an emphasis on the relationship between theory and practice as well as the interconnection of the activities of the many agencies and professions involved in the systems of justice and private security. Through their research, teaching, and practice, graduates can contribute to the development of improved systems for the prevention and control of crime and delinquency.

The School of Criminal Justice offers a professionally and managerially oriented Master of Science degree program for advanced students, many of whom are criminal justice professionals. The Master of Science degree is offered both on campus and through online delivery. The Master of Science in Forensic Science offers concentrations in forensic anthropology, biology, and chemistry and is only offered on-campus. The School also offers Master of Science degrees in Law Enforce-

ment Intelligence and Analysis and Judicial Administration, which are available only online.

The Doctor of Philosophy is designed to produce graduates who can apply interdisciplinary theory and a variety of research methodologies to the study of crime causation, social reaction, and the justice system. The Ph.D. in Criminal Justice permits students to emphasize the study of crime, crime control, and justice administration while simultaneously developing a strong foundation in social science theory and research methods. It prepares students for careers in college and university teaching and research, as well as for advanced public policy positions.

Master of Science

CRIMINAL JUSTICE

In addition to meeting the requirements of the university and of the College of Social Science, students must meet the requirements specified below.

Admission

While a criminal justice undergraduate major comparable to that offered by this school is not required for admission to the Master of Science degree program, the applicant must have a background of education and occupational experience appropriate to the successful pursuit of graduate work in the concentration elected. Applicants insufficiently prepared for graduate study in criminal justice may have to complete collateral course work or pursue individualized study to satisfy deficiencies. Occupational experience is highly desirable before undertaking graduate study in some fields of criminal justice.

All applicants must have at least 12 credits of undergraduate course work in political science, economics, sociology, psychology, anthropology, history, social work, or any combination thereof. At least 6 of these credits must be in sociology, psychology, social work, or any combination of such courses.

Regular Status

1. A bachelor's degree from a recognized educational institution.
2. An undergraduate grade-point average of 3.20 or higher.
3. Satisfactory scores on the Graduate Record Examination General Test or a satisfactory score on the Miller Analogies Test (social science professional scale).
4. Evidence of personal traits and characteristics considered important for scholarly performance.
5. Occupational experience is given weight in the selection of master's degree candidates whenever such experience is important to the study of a specific concentration or is an important factor in obtaining appropriate employment after completion of the Master of Science degree.

Provisional Status

A limited number of applicants who do not satisfy the school's regular admission requirements may be accepted provisionally. These students will be judged on the basis of their potential contribution to the field of criminal justice. Students should not be enrolled on a provisional basis for more than one semester. The student must be admitted on a regular basis to be considered a degree candidate. To qualify for admission to regular status, the student must complete a minimum of 10 credits in criminal justice graduate course work with a grade-point average of 3.20 or higher.

Requirements for the Master of Science Degree in Criminal Justice

The program is available under both Plan A (with thesis) and Plan B (without thesis). The student must complete a total of 30 credits distributed as follows:

Requirements for Both Plan A and Plan B

	CREDITS
1. Core Courses	15
CJ 801 Crime Causation, Prevention, and Control	3
CJ 810 Proseminar in Criminal Justice	3
CJ 811 Design and Analysis in Criminal Justice Research ¹	3
CJ 812 Criminal Justice Management Seminar ¹	3
CJ 887 Quantitative Methods in Criminal Justice Research	3
2. Plan A	
1. Complete 6 credits of Criminal Justice 899 Master's Thesis Research with a grade of 3.0 or better.	
2. Pass an oral examination in defense of the thesis.	
3. Complete 3 credits of electives approved by the academic advisor.	
Plan B	
1. Complete Criminal Justice 896 Policy Analysis under Conditions of Change with a grade of 3.0 or better.	
2. Pass an oral examination covering the policy analysis paper completed by successfully completing Criminal Justice 896.	
3. Complete 6 credits of electives approved by the academic advisor.	
3. Criminal Justice electives approved by an academic advisor.	6

¹ For a student who completes the requirements for the graduate Specialization in Forensic Science.

1. A course dealing with an aspect of the legal system approved by the School of Criminal Justice may be substituted for Criminal Justice 811.
2. Criminal Justice 815 may be substituted for Criminal Justice 812.

JUDICIAL ADMINISTRATION

The Master of Science degree in Judicial Administration is a Plan B (without thesis) online program designed for individuals desiring a leadership or management career in the judicial administration profession in the United States or internationally. Students who are currently employed in the U.S. federal, state, or local courts or courts in other countries may apply, as well as students wishing to enter a judicial administration career.

In addition to meeting the requirements of the university and of the College of Social Science, students must meet the requirements specified below.

Admission

To be considered for admission to the Master of Science degree program in Judicial Administration, an applicant must:

1. Submit a personal statement regarding his or her academic and professional goals.
2. Have a bachelor's degree from a recognized educational institution.
3. Have an undergraduate grade-point average of 3.20 or higher.
4. Submit scores from the Graduate Record Examination General Test (GRE) taken within the last five years. The GRE examination is waived for candidates who meet the undergraduate grade-point average requirement of 3.20 or for candidates who have completed a graduate degree.

The School of Criminal Justice recognizes that many applicants have been out of the academic environment for some time, and other factors may be considered in the admission process. A limited number of applicants who do not satisfy the School's regular admission requirements may be admitted on a provisional basis. The decision to grant provisional admission is based on the student's potential contributions to the field of judicial system administration. A student may be enrolled on a provisional basis for only two semesters and must be admitted on a regular basis to be considered a degree candidate. Course work completed while on provisional status will not count towards the degree requirements.

Requirements for the Master of Science Degree in Judicial Administration

The program is available only online, under Plan B (without thesis). The student must complete a total of 30 credits distributed as follows:

- | | |
|-----------------------------------------------|---------|
| 1. All of the following courses (21 credits): | CREDITS |
|-----------------------------------------------|---------|

CJ 811 Design and Analysis in Criminal Justice Research	3
CJ 812 Criminal Justice Management Seminar	3
CJ 829 National and Global Trends in Court Planning	3
CJ 860 Historical Foundations/Contemporary Frameworks in Judicial Administration	3
CJ 861 Budget Planning and Resource Allocation for Court Performance	3
CJ 862 Workforce Planning and Management in the Courts	3
CJ 887 Quantitative Methods in Criminal Justice Research	3
2. Two of the following courses (6 credits):	
CJ 863 Courthouse Planning: Space, Technology, Security, and Disaster Recovery	3
CJ 864 Elements of Essential Court Operations	3
JRN 892 Journalism Special Topics	3
3. The following course (3 credits):	
CJ 896 Policy Analysis Under Conditions of Change	3
4. Completion of a final examination or evaluation.	

Doctor of Philosophy

The Doctor of Philosophy degree in criminal justice focuses on criminal justice and criminology and theory-based knowledge of crime, criminal justice organizations and processes and the law. During the course of doctoral study, students are expected to develop the depth, breadth and consistency of their training in research methods and their applications of analytical capabilities to administrative and policy issues.

CRIMINAL JUSTICE

In addition to meeting the requirements of the university and of the College of Social Science, students must meet the requirements specified below.

Admission

To be eligible for admission to the Doctor of Philosophy program in Criminal Justice, an applicant must have:

1. Completed an undergraduate degree in criminal justice or related social science field.
2. An overall grade-point average of at least 3.2 in the most recent academic degree (master's or bachelor's).
3. Satisfactory scores on the Graduate Record Examination (GRE) General Test as judged by the faculty.
4. Evidence of experience in social science research, such as the completion of a master's thesis.

Requirements for the Doctor of Philosophy Degree in Criminal Justice

Students who are enrolled in the Doctor of Philosophy degree program in Criminal Justice must complete a minimum of 72 credits.

1. Completion of 18 credits in Criminal Justice 901, 904, 905, 906, 907, 908 and 909.
2. Completion of 12 credits of additional criminal justice courses at the 800 level or above.
3. Completion of 12 additional credits outside the School of Criminal Justice as approved by the student's guidance committee.
4. Completion of two 3-credit doctoral research methods courses in the College of Social Science as approved by the student's guidance committee.
5. Satisfactory completion of 24 credits of Criminal Justice 999 and defense of a doctoral dissertation.

Normally students complete the requirements for the Doctor of Philosophy degree in three years.

FORENSIC SCIENCE

Master of Science

Several colleges and departments within Michigan State University cooperate to offer the Master of Science in Forensic Science. These include the College of Agriculture and Natural Resources in cooperation with the Department of Community, Agriculture, Recreation and Resource Studies; the College of Human Medicine in cooperation with the Department of Radiology; the College of Natural Science in cooperation with the departments of Chemistry; Pharmacology and Toxicology, Statistics and Probability, and Zoology as well as the Center for Advanced Microscopy, the Genetics Program and the Biomedical Laboratory Diagnostics Program; and the College of Social Science in cooperation with the Department of Anthropology and the School of Criminal Justice. The School of Criminal Justice is the primary administrative unit.

This program is designed to give all students a broad, theoretical and practical background in the scientific, legal and investigative aspects of forensic science while providing the opportunity to study one of the major disciplines in depth. Students enrolled in this program must complete a concentration in one of the following areas: forensic chemistry, forensic biology, or forensic anthropology.

A thesis is required of all students pursuing Plan A and opportunities exist for an internship in a practicing United States or international forensic science laboratory.

In addition to meeting the requirements of the university and the College of Social Science, students must meet the requirements specified below.

Admission

To be considered for admission to the Master of Science degree program in forensic science, an applicant must have:

1. completed a Bachelor of Science or Bachelor of Arts degree in a discipline appropriate to the desired concentration. For example, a student who desires to complete the concentration in forensic chemistry must have a bachelor's degree in chemistry or a closely allied science such as biochemistry.
2. a cumulative grade-point average of at least 3.0 for all course work in the bachelors degree.
3. satisfactory scores in the Graduate Record Examination General Test as judged by the program faculty. No substantive area GRE exams are required.

Requirements for the Master of Science Degree in Forensic Science

The program is available under Plan A (with thesis) or Plan B (without thesis). Each student will have a thesis advisory committee comprised of the academic advisor and two other program faculty. The student must complete at least 38 credits as follows:

	CREDITS
1. The following courses (6 credits):	
CJ 804 Crime Scene Investigation	1
CJ 805 Survey in Forensic Science.....	3
CJ 817 Law and Forensic Science	2
2. One of the following concentrations:	
Forensic Chemistry (18 credits):	
CEM 832 Mass Spectrometry	3
CEM 835 Advanced Analytical Chemistry II	3
CJ 819 Forensic Analysis of Drugs and Alcohol	3
CJ 820 Forensic Chemistry and Microscopic Evidence.....	3
NSC 820 Scanning Electron Microscopy; Energy Dispersive X-ray Microanalysis	3
PHM 431 Pharmacology of Drug Addiction.....	3
Forensic Biology (18 credits):	
BMB 801 Molecular Biology	3
CJ 820 Forensic Chemistry and Microscopic Evidence.....	3
CJ 824 Forensic Serology.....	3

CJ 825 DNA Profiling.....	3
FOR 842 Population Genetics, Genealogy and Genomics	3
or	
FW 828 Conservation and Genetics.....	3
STT 464 Statistics for Biologists	3
Forensic Anthropology (16 credits):	
ANP 441 Osteology and Forensic Anthropology	4
ANP 842 Human Osteology	5
ANP 843 Bioarcheology	3
ANP 844 Topics in Forensic Anthropology.....	4
Students must enroll for Anthropology 844 twice, in increments of 2 credits.	
3. Complete an additional 8 to 10 credits of electives chosen in consultation with the student's academic advisor.	

Additional Requirements for Plan A

1. Complete 6 credits in Forensic Science 899 Master's Thesis Research.
2. Attend at least one Master's Seminar Series lecture per semester.
3. Pass an oral examination in defense of the thesis.

Additional Requirements for Plan B

1. Complete 6 credits in Forensic Science 890 Independent Study.
2. Attend at least one Master's Seminar Series lecture per semester.
3. Completion of a final examination or evaluation.

LAW ENFORCEMENT INTELLIGENCE AND ANALYSIS

Master of Science

The Master of Science degree in Law Enforcement Intelligence and Analysis is a Plan B (without thesis), online program designed for working law enforcement professionals to enhance their education and training in the critical field of intelligence. Criminal justice students wishing to enter a law enforcement career with a specialized graduate degree may also apply.

In addition to meeting the requirements of the university and of the College of Social Science, students must meet the requirements specified below.

Admission

To be considered for admission to the Master of Science degree program in Law Enforcement Intelligence and Analysis, an applicant must:

1. submit a personal statement regarding their academic and professional goals.
2. submit scores from a GRE general exam taken within the last five years. The GRE exam is waived for candidates with a cumulative undergraduate GPA of 3.2 or higher from an accredited and recognized college or university, and for applicants with a completed graduate degree.

The School of Criminal Justice recognizes that many applicants have been out of the academic environment for some time, and other factors may be considered in the admission process. A limited number of applicants who do not satisfy the school's regular admission requirements may be admitted on a provisional basis. The decision to grant provisional admission is based on the student's potential contributions to the field of criminal justice. A student may be enrolled on a provisional basis for only two semesters and must be admitted on a regular basis to be considered a degree candidate. To qualify for regular status, a student must complete a minimum of 12 credits of graduate course work in criminal justice with a GPA of 3.0 or higher.

Requirements for the Master of Science Degree in Law Enforcement Intelligence and Analysis

	CREDITS
The student must complete at least 30 credits under Plan B (without thesis).	
1. All of the following courses (9 credits):	
CJ 802 Proseminar in Law Enforcement Intelligence Operations 3	3
CJ 811 Design and Analysis in Criminal Justice Research.....	3
CJ 887 Quantitative Methods in Criminal Justice Research	3

2. Five of the following courses (15 credits):

CJ 801	Crime Causation, Prevention, and Control	3
CJ 803	Foundations in Homeland Security	3
CJ 810	Proseminar in Criminal Justice	3
CJ 822	Comparative Criminal Justice	3
CJ 823	Globalization of Crime	3
CJ 837	Counterterrorism and Intelligence	3
CJ 838	Issues in Terrorism	3
CJ 839	Analytic Thinking and Intelligence	3
CJ 856	Advanced Topics in Policing	3
GEO 802	Geospatial Technology	3
3. The following course (3 credits):

CJ 896	Policy Analysis under Conditions of Change	3
--------	--------------------------------------------	---
4. Complete an additional 3 credits of electives as approved by the student's guidance committee.
5. Complete a final examination or evaluation.

GRADUATE SPECIALIZATION IN FORENSIC SCIENCE

The Graduate Specialization in Forensic Science provides a thorough understanding of the broad field of forensic science and prepares students for the role of court-qualified expert. Students study scientific, technical, and ethical issues and the relationship of their own area of expertise to the criminal justice system. The legal aspects of forensic science presented include the study of court-qualified expert qualifications, types of scientific evidence likely to be admissible in court, and how evidence may become inadmissible for scientific and technical reasons. Students will participate in a mock trial drawing on their systemic understanding of their field of expertise and their ability to explain methodology and evidence to laypersons.

This graduate specialization is available as an elective to students who are enrolled in doctoral degree programs at Michigan State University. The Graduate Specialization in Forensic Science, which is administered by the School of Criminal Justice, is designed for individuals in a discipline that typically does not lend itself to full-time employment in a crime laboratory but may require participation in the criminal justice system in order to offer expert advice. Completion of this specialization will provide students with knowledge of the United States legal system, scientific evidence, and intricacies of testifying, all of which are requisite to becoming an effective court-qualified expert in the courtroom.

With the approval of the department and college that administers the student's degree program, the courses that are used to satisfy the specialization may also be used to satisfy the requirements for the doctoral degree. The students program of study must be approved by the student's advisor for the specialization.

Requirements for the Graduate Specialization in Forensic Science

CREDITS

- The student must complete 9 credits from the following:
1. All of the following courses (6 credits):

CJ 805	Survey of Forensic Science	3
CJ 817	Law and Forensic Science	2
FRS 890	Independent Study	1

 Independent study will entail a substantial literature and legal essay reviewing the student's specialized field as it relates to the forensic sciences and the legal system.
 2. Complete a 3 credit 800 or 900-level course that is relevant to the discipline, such as forensic anthropology or forensic entomology, and is approved by the student's advisor and the Director of the Forensic Science program.

GRADUATE SPECIALIZATION IN JUDICIAL ADMINISTRATION

Management of the courts and the judicial process in contemporary society requires expert knowledge and complex skills. The courts need qualified professionals who can ensure that the public receives timely and just resolution to cases requiring judicial intervention.

The Specialization in Judicial Administration, which is administered by the School of Criminal Justice within the College of Social Science, is available online as an elective to students who are enrolled in master's degree programs at Michigan State University with the exception of student's pursuing the Master of Science in Judicial Administration. This specialization is designed to meet the educational needs of students currently working in the judicial system. It prepares students to understand the purposes and responsibilities of the courts; leadership and its role in guiding the courts; and interaction with the community. It provides opportunities to learn how to obtain and manage human resources including staff education and development, budgets, and fiscal resources; manage cases and information technology effectively; envision and plan strategically; and implement and manage auxiliary court programs and required services, which complement and support the core functions of the courts.

With the approval of the department or school and college that administers the student's degree program, courses that are used to satisfy the requirements for the specialization may also be used to satisfy the requirements for the master's degree. The student's program of study must be approved by the student's guidance committee for the specialization.

Requirements for the Graduate Specialization in Judicial Administration

CREDITS

- The student must:
1. Complete all of the following core courses (12 credits):

CJ 812	Criminal Justice Management Seminar	3
CJ 829	National and Global Trends in Court Planning	3
CJ 860	Historical Foundations/Contemporary Frameworks of Judicial Administration	3
CJ 864	Elements of Essential Court Operations	3

 Equivalent courses may be substituted with approval of the Criminal Justice academic advisor.

GRADUATE SPECIALIZATION IN SECURITY MANAGEMENT

The complexities of modern society have combined to generate a variety of threats to business organizations, information networks, government installations and operations, and individuals. The Graduate Specialization in Security Management is designed for students who are interested in private and government security.

The specialization, which is administered by the School of Criminal Justice, is available as an elective to students who are enrolled in master's degree programs at Michigan State University. The specialization should be of particular interest to students who are enrolled in certain programs in the Eli Broad College of Business and the College of Social Science.

The Specialization in Security Management is designed to help students to understand:

1. The business and technical aspects of protecting private and government assets.
2. The administrative, management, technical, and legal problems of asset protection and loss prevention.
3. Concepts related to protecting personal and personnel rights, proprietary information, facilities, and other assets of an organization.
4. Security's relationship to the value of freedom and democratic principles in our society.

With the approval of the department or school and college that administer the student's degree program, the courses that are used to satisfy the requirements for the specialization may also be used to satisfy the requirements for the master's degree.

Requirements for the Graduate Specialization in Security Management:

The student must complete:

	CREDITS
1. All of the following courses (15 credits):	
CJ 801 Crime Causation, Prevention, and Control	3
CJ 811 Design and Analysis in Criminal Justice Research	3
CJ 812 Criminal Justice Management Seminar	3
CJ 885 Security Management	3
CJ 886 Security Administration	3
An equivalent course may be substituted for Criminal Justice 811 and 812 with approval of a Criminal Justice advisor.	
2. One of the following courses (3 credits):	
LIR 823 Organizational Behavior in Labor and Industrial Relations	3
MGT 824 Management and Organizational Behavior	3
PLS 810 Proseminar in Public Administration	3
PSY 860 Industrial and Organizational Psychology	3

DEPARTMENT of ECONOMICS

Timothy Vogelsang, Chairperson

Economics is the study of how various entities make choices with scarce resources. Microeconomics focuses on the choices made by individuals and firms, and macroeconomics looks at the behavior of the economy as a whole. The study of economics is one of the most practical and adaptable disciplines, and those who focus on it gain a broad skill-set that can be utilized in a wide variety of settings both professionally and personally.

The Department of Economics offers both undergraduate and graduate degrees. Both programs offer courses that teach fundamental analytical skills necessary to succeed in a wide variety of academic and professional careers.

The mission of the Department of Economics at Michigan State University consists of three interrelated components: providing the highest quality instruction to our undergraduate and graduate students, conducting cutting-edge research in economics, and providing leadership and service to our professional communities.

UNDERGRADUATE PROGRAMS

The Department of Economics offers Bachelor of Arts and Bachelor of Science degrees, as well as a minor. Jointly with the Department of Political Science, it also offers a Linked Bachelor of Arts or Science/Master of Public Policy degree program.

The economics degree programs provide a broad education involving the domestic and international economy and include the study of institutions, concepts, policy, and tools of analysis. Our students prepare for careers in business such as banking, financial markets, insurance, management, and consulting; national, state, and local governments; teaching; and graduate study in economics and related fields including business administration, finance, public policy, and law.

The department stresses flexibility in each undergraduate program and requires a strong core of economic theory, supplemented by mathematics, statistics, and computer science. Students in each of these degree programs choose area electives within the department as well as in the College of Social Science, the College of Arts and Letters, and the university. All students are encouraged to develop programs of study that are tailored to their individual interests and goals.

The Linked Bachelor of Arts or Science/Master of Public Policy program allows qualified students interested in professional careers in policy analysis, program management or policy advocacy

the opportunity to complete both their bachelor's and master's degrees in a total of five years.

Beyond the introductory courses in microeconomics and macroeconomics, the department offers courses in a number of areas of emphasis. These areas of emphasis are listed below, along with their respective course offerings.

Microeconomics	
EC 251H	Microeconomics and Public Policy
EC 301	Intermediate Microeconomics
EC 401	Advanced Microeconomics
Macroeconomics and Monetary Theory	
EC 252H	Macroeconomics and Public Policy
EC 302	Intermediate Macroeconomics
EC 330	Money, Banking, and Financial Markets
EC 402	Advanced Macroeconomics
Economic Systems	
EC 306	Comparative Economic Systems
EC 406	Economic Analysis of Russia and the Commonwealth of Independent States
Development	
EC 310	Economics of Developing Countries
EC 410	Issues in the Economics of Developing Countries
EC 412	Economic Analysis of Latin America
EC 413	Economic Analysis of Asia
EC 414	Economic Analysis of Sub-Saharan Africa
Econometrics	
EC 420	Introduction to Econometric Methods
EC 421	Advanced Econometric Methods
Public Economics	
EC 335	Taxes, Government Spending and Public Policy
EC 435	Public Expenditures
EC 436	Public Revenues
International Economics	
EC 340	Survey of International Economics
EC 440	International Trade
EC 441	International Finance
Industrial Organization	
EC 360	Private Enterprise and Public Policy
EC 460	American Industry: Structure and Behavior
Labor Economics	
EC 380	Labor Relations and Labor Market Policy
EC 480	Analysis of Labor Markets
Law And Economics	
EC 425	Law and Economics
Health and Welfare	
EC 495	Economics of Poverty and Income Distribution
EC 498	Economics of Health Care
Urban Economics	
EC 438	Urban Economics
Capstone Course	
EC 499	Senior Seminar for Economics Majors (W)

ECONOMICS

The Bachelor of Arts Degree in Economics emphasizes the use of quantitative techniques in the analysis of economic theories.

Requirements for the Bachelor of Arts Degree in Economics

- The graduation requirements of the University as described in the *Undergraduate Education* section of this catalog; 120 credits, including general elective credits, are required for the Bachelor of Arts degree in Economics.
 The University's Mathematics requirement for the Bachelor of Arts degree in Economics is met by completing Mathematics 124, 132, or 152H.
 The University's Tier II writing requirement for the Economics major is met by completing Economics one of the following courses: Economics 406, 410, 412, 413, 414, 425, 435, 436, 440, 441, 450, 460, 480, 485, 495, 498, or 499. Those courses are referenced in item 3. below.
- The requirements of the College of Social Science for the Bachelor of Arts degree.

3. The following requirements for the major:	33
Students may elect to complete more economics courses than those needed to complete the requirements for the major, with the understanding that the grades earned in such courses will be included in the computation of the grade-point average for courses in the major to meet College of Social Science graduation requirements. In order to be eligible to enroll in Economics 499, as referenced in item 3. below, students must have a grade-point average of 2.0 in all attempted Economics courses.	
a. All of the following courses in the Department of Economics (15 credits):	
EC 201	Introduction to Microeconomics 3
EC 202	Introduction to Macroeconomics 3

EC 301	Intermediate Microeconomics	3
EC 302	Intermediate Macroeconomics	3
EC 420	Introduction to Econometric Methods	3

A minimum grade of 2.0 must be achieved in both Economics 201 and 202. A maximum of one course repeat (3 credits) may be used to satisfy the 2.0 grade requirement.

Economics 251H may be substituted for Economics 201 and 301. Students who elect this substitution, and who do not take Economics 252H, may satisfy the requirement referenced in item 3. by completing at least 2 to 3 credits in Economics courses at the 300-400 level, in addition to the 9 credits referenced in item 3.

Economics 252H may be substituted for Economics 202 and 302. Students who elect this substitution, and who do not take Economics 251H, may satisfy the requirement referenced in item 3. by completing at least 3 credits in Economics courses at the 300-400 level, in addition to the 9 credits referenced in item 3.

Economics 251H and 252H may be substituted for the following group of courses: Economics 201, 202, 301, and 302. Students who elect this substitution may satisfy the requirement referenced in item 3. by completing at least 5 to 6 credits in two Economics courses at the 300-400 level, in addition to the 9 credits referenced in item 3.

Students who elect to use Economics 251H as a substitute for Economics 201 and/or Economics 252H as a substitute for Economics 202 must achieve a minimum grade of 2.0 in the course substitute. A maximum of one course repeat (3 credits) may be used to satisfy the 2.0 grade requirement.

- b. One of the following courses in the international area (3 credits):
- | | | |
|--------|----------------------------------------------------------------------------|---|
| EC 306 | Comparative Economic Systems | 3 |
| EC 310 | Economics of Developing Countries | 3 |
| EC 340 | Survey of International Economics | 3 |
| EC 406 | Economic Analysis of Russia and the Commonwealth of Independent States (W) | 3 |
| EC 410 | Issues in the Economics of Developing Countries (W) | 3 |
| EC 412 | Economic Analysis of Latin America (W) | 3 |
| EC 413 | Economic Analysis of Asia (W) | 3 |
| EC 414 | Economic Analysis of Sub-Saharan Africa (W) | 3 |
| EC 440 | International Trade (W) | 3 |
| EC 441 | International Finance (W) | 3 |
- The course used to fulfill this requirement may not be used to fulfill requirement c. below.
- c. One of the following courses (3 credits):
- | | | |
|--------|----------------------------------------------------------------------------|---|
| EC 406 | Economic Analysis of Russia and the Commonwealth of Independent States (W) | 3 |
| EC 410 | Issues in the Economics of Developing Countries (W) | 3 |
| EC 412 | Economic Analysis of Latin America (W) | 3 |
| EC 413 | Economic Analysis of Asia (W) | 3 |
| EC 414 | Economic Analysis of Sub-Saharan Africa (W) | 3 |
| EC 425 | Law and Economics (W) | 3 |
| EC 435 | Public Expenditures (W) | 3 |
| EC 436 | Public Revenues (W) | 3 |
| EC 440 | International Trade (W) | 3 |
| EC 441 | International Finance (W) | 3 |
| EC 450 | Economics of Environmental Policy (W) | 3 |
| EC 460 | American Industry: Structure and Behavior (W) | 3 |
| EC 480 | Analysis of Labor Markets (W) | 3 |
| EC 485 | Economics of Education (W) | 3 |
| EC 495 | Economics of Poverty and Income Distribution (W) | 3 |
| EC 498 | Economics of Health Care (W) | 3 |
| EC 499 | Senior Seminar for Economics Majors (W) | 3 |
- The course used to fulfill this requirement may not be used to fulfill requirement b. above.
- d. Nine additional credits in economics courses, of which at least 6 credits must be at the 400-level.
- e. One of the following courses (3 credits):
- | | | |
|---------|---------------------------------------------------------|---|
| STT 315 | Introduction to Probability and Statistics for Business | 3 |
| STT 421 | Statistics I | 3 |
| STT 430 | Introduction to Probability and Statistics | 3 |
| STT 441 | Probability and Statistics I: Probability | 3 |
- f. One of the following courses (3 credits):
- | | | |
|---------|-----------------------------------------|---|
| CSE 101 | Computing Concepts and Competencies | 3 |
| CSE 131 | Technical Computing and Problem Solving | 3 |

In addition to the requirements for the major, students may elect to complete a cognate in business. The requirements for the cognate are met by completing four of the following courses (12 credits):

ACC 230	Survey of Accounting Concepts	3
FI 320	Introduction to Finance	3
GBL 323	Introduction to Business Law	3
MGT 325	Management Skills and Processes	3
MKT 327	Introduction to Marketing	3

Students may substitute Accounting 201 and 202 for Accounting 230.

Bachelor of Science

The Bachelor of Science Degree in Economics emphasizes the use of advanced math and science in the analysis of economic

theories. The program offers students more emphasis on mathematics, statistics, and computer science, as preparation for those who wish to pursue graduate training in economics.

Requirements for the Bachelor of Science Degree in Economics

- The graduation requirements of the University as described in the *Undergraduate Education* section of this catalog: 120 credits, including general elective credits, are required for the Bachelor of Science degree in Economics.

The University's Mathematics requirement for the Bachelor of Science degree in Economics is met by completing Mathematics 132, or 152H.

The University's Tier II writing requirement for the Economics major is met by completing one of the following courses: Economics 406, 410, 412, 413, 414, 425, 435, 436, 440, 441, 450, 460, 480, 485, 495, 498, or 499. Those courses are referenced in item 3. below.

- The requirements of the College of Social Science for the Bachelor of Science degree. Students pursuing the Bachelor of Science Degree in Economics are required to complete a minimum of 15 credits from the following courses for the College of Social Science NATURAL SCIENCE REQUIREMENT, including Mathematics 133 or 153H and one of the designated statistics courses.

CSE 231	Introduction to Programming I	4
MTH 133	Calculus II	4
MTH 153H	Honors Calculus II	4
MTH 234	Multivariable Calculus	4
MTH 235	Differential Equations	3
MTH 254H	Honors Multivariable Calculus	4
MTH 255H	Honors Differential Equations	3
MTH 299	Transitions	4
MTH 309	Linear Algebra I	3
MTH 310	Abstract Algebra I and Number Theory	3
MTH 314	Matrix Algebra with Applications	3
MTH 320	Analysis I	3
MTH 340	Ordinary Differential Equations I	3
STT 441	Probability and Statistics I: Probability	3
STT 442	Probability and Statistics II: Statistics	3
STT 461	Computations in Probability and Statistics	3

Mathematics 133 or 153H and Mathematics 234 or 254H and Mathematics 235 or 255H may be applied toward the College of Social Science NATURAL SCIENCE REQUIREMENT. Upon prior approval by the department, other courses may be substituted in fulfillment of the College of Social Science NATURAL SCIENCE REQUIREMENT.

- The following requirements for the major:
 - Students may elect to complete more economics courses than those needed to complete the requirements for the major, with the understanding that the grades earned in such courses will be included in the computation of the grade-point average for courses in the major to meet College of Social Science graduation requirements. In order to be eligible to enroll in Economics 499, as referenced in item 3. c. below, students must have a grade-point average of 2.0 in all attempted Economics courses.

- a. All of the following courses in the Department of Economics (15 credits):
- | | | |
|--------|-------------------------------------|---|
| EC 201 | Introduction to Microeconomics | 3 |
| EC 202 | Introduction to Macroeconomics | 3 |
| EC 301 | Intermediate Microeconomics | 3 |
| EC 302 | Intermediate Macroeconomics | 3 |
| EC 420 | Introduction to Econometric Methods | 3 |

A minimum grade of 2.0 must be achieved in both Economics 201 and 202. A maximum of one course repeat (3 credits) may be used to satisfy the 2.0 grade requirement.

Economics 251H may be substituted for Economics 201 and 301. Students who elect this substitution, and who do not take Economics 252H, may satisfy the requirement referenced in item 3. f. by completing at least 2 to 3 credits in Economics courses at the 300-400 level, in addition to the 9 credits referenced in item 3. f.

Economics 252H may be substituted for Economics 202 and 302. Students who elect this substitution, and who do not take Economics 251H, may satisfy the requirement referenced in item 3. f. by completing at least 3 credits in Economics courses at the 300-400 level, in addition to the credits referenced in item 3. f.

Economics 251H and 252H may be substituted for the following group of courses: Economics 201, 202, 301, and 302. Students who elect this substitution may satisfy the requirement referenced in item 3. f. by completing at least 5 to 6 credits in two Economics courses at the 300-400 level, in addition to the credits referenced in item 3. f.

Students who elect to use Economics 251H as a substitute for Economics 201 and/or Economics 252H as a substitute for Economics 202 must achieve a minimum grade of 2.0 in the course substitute. A maximum of one course repeat (3 credits) may be used to satisfy the 2.0 grade requirement.

- b. One of the following courses in the international area (3 credits):
- | | | |
|--------|----------------------------------------------------------------------------|---|
| EC 306 | Comparative Economic Systems | 3 |
| EC 310 | Economics of Developing Countries | 3 |
| EC 340 | Survey of International Economics | 3 |
| EC 406 | Economic Analysis of Russia and the Commonwealth of Independent States (W) | 3 |

CREDITS
30

SOCIAL SCIENCE
Department of Economics

- EC 410 Issues in the Economics of Developing Countries (W) 3
- EC 412 Economic Analysis of Latin America (W) 3
- EC 413 Economic Analysis of Asia (W) 3
- EC 414 Economic Analysis of Sub-Saharan Africa (W) 3
- EC 440 International Trade (W) 3
- EC 441 International Finance (W) 3
- c. One of the following courses (3 credits):
 - EC 406 Economic Analysis of Russia and the Commonwealth of Independent States (W) 3
 - EC 410 Issues in the Economics of Developing Countries (W) 3
 - EC 412 Economic Analysis of Latin America (W) 3
 - EC 413 Economic Analysis of Asia (W) 3
 - EC 414 Economic Analysis of Sub-Saharan Africa (W) 3
 - EC 425 Law and Economics (W) 3
 - EC 435 Public Expenditures (W) 3
 - EC 436 Public Revenues (W) 3
 - EC 440 International Trade (W) 3
 - EC 441 International Finance (W) 3
 - EC 450 Economics of Environmental Policy (W) 3
 - EC 460 American Industry: Structure and Behavior (W) 3
 - EC 480 Analysis of Labor Markets (W) 3
 - EC 485 Economics of Education (W) 3
 - EC 495 Economics of Poverty and Income Distribution (W) 3
 - EC 498 Economics of Health Care (W) 3
 - EC 499 Senior Seminar for Economics Majors (W) 3
- Courses used to fulfill requirement 3. b. above may not be used to fulfill this requirement.
- d. One of the following courses (3 credits):
 - EC 401 Advanced Microeconomics 3
 - EC 402 Advanced Macroeconomics 3
- e. One of the following courses (3 credits):
 - EC 421 Advanced Econometric Methods 3
 - EC 499 Senior Seminar for Economics Majors (W) 3
 - EC 499 may not be used to fulfill this requirement if used to fulfill requirement 3. c. above.
- f. Three to six additional elective credits in economics courses to total at least 30 credits in Economics courses in the major. No more than 3 credits may be at the 300-level or below.

In addition to the requirements for the major, students may elect to complete a cognate in business. The requirements for the cognate are met by completing four of the following courses (12 credits):

- ACC 230 Survey of Accounting Concepts 3
- FI 320 Introduction to Finance 3
- GBL 323 Introduction to Business Law 3
- MGT 325 Management Skills and Processes 3
- MSC 327 Introduction to Marketing 3

Students may substitute Accounting 201 and 202 for Accounting 230.

MINOR IN ECONOMICS

The Minor in Economics, which is administered by the Department of Economics, provides a basic foundation for the breadth of study within the field of economics and a grounding in general economic theory.

The minor is available as an elective to students who are enrolled in bachelor's degree programs at Michigan State University other than the Bachelor of Arts or Bachelor of Science Degree in Economics. With the approval of the department and college that administers the student's degree program, the courses that are used to satisfy the minor may also be used to satisfy the requirements for the bachelor's degree.

Students who plan to complete the requirements for the minor should consult an undergraduate advisor in the Department of Economics.

Requirements for the Minor in Economics

CREDITS

Complete 18 credits of economics course work with a minimum grade-point average of 2.0 in courses used in fulfillment of the requirements for the minor.

- 1. All of the following courses (9 credits):
 - EC 201 Introduction to Microeconomics 3
 - EC 202 Introduction to Macroeconomics 3
 - EC 301 Intermediate Microeconomics 3
- Economics 251H may be substituted for Economics 201 and 301. Students who elect this substitution may satisfy the requirement referenced in item 3. by completing at least 8 additional credits in Economics course work at the 300-400 level.
- Economics 252H may be substituted for Economics 202.
- Economics 251H and 252H may be substituted for the following group of courses: Economics 201, 202, 301, and 302. Economics 302 is not required for the minor. Stu-

- 2. Complete 3 additional credits in Economics at the 400-level.
- 3. Complete 6 additional credits in Economics at the 300-400 level.

TEACHER CERTIFICATION OPTIONS

The economics disciplinary minor is available for teacher certification for students who are pursuing a major with a teacher certification option in comparative cultures and politics, international relations, political theory and constitutional democracy, social relations and policy, interdisciplinary studies in social science, interdisciplinary studies in social science: social science education, or history. Students who elect the economics disciplinary minor must contact the Department of Economics.

For additional information, refer to the statement on TEACHER CERTIFICATION in the *Department of Teacher Education* section of this catalog.

LINKED BACHELOR'S-MASTER'S DEGREE IN PUBLIC POLICY

**Bachelor of Arts or Bachelor of Science Degree in Economics
 Master of Public Policy Degree in Public Policy**

The department welcomes applications from Michigan State University Economics undergraduate students during the fall semester of their junior year in order to begin the program during the fall semester of their senior year. Admission to the program requires a minimum undergraduate grade-point average of 3.50 and an approved program of study for the Master of Public Policy degree in Public Policy at the time of admission. Admission to the Linked Bachelor's-Master's Program allows the application of up to 9 credits toward the master's program for qualifying 400-level and above course work taken at the undergraduate level at Michigan State University or an external accredited institution. The number of approved credits, not to exceed 9, are applied toward the credit requirement of the master's degree. Credits applied to the Linked Bachelor's-Master's Program are not eligible to be applied to any other graduate degree program.

GRADUATE STUDY

The Department of Economics offers a Doctor of Philosophy degree in Economics and a Master of Public Policy degree jointly with the Department of Political Science. Students who are admitted to the Doctor of Philosophy program may obtain a Master of Arts degree in Economics.

The doctoral degree prepares students for professional careers in research, teaching, government, and business. Doctoral students must qualify in general economic theory, methods, and two fields of specialization. The fields of specialization include:

- Advanced Economic Theory
- Advanced Macroeconomics
- Econometrics
- Development
- Environmental and Resource Economics
- Industrial Organization
- International Economics
- Labor Economics
- Macroeconomics
- Public Economics

Substitution of a field in another discipline is possible. The master degree is offered to students who are admitted to the doctoral program that satisfy the master degree requirements.

The Master of Public Policy program provides students with the requisite skills to address complex societal problems, reconcile

conflicting political and ethical values in policymaking, make informed decisions about program activities, and provide effective leadership in policy development and implementation.

Students who are enrolled in Master of Arts and Doctor of Philosophy degree programs in the Department of Economics may elect specializations in environmental and resource economics. For additional information, refer to the statement on Interdepartmental Graduate Specializations in Environmental and Resource Economics in the *College of Agriculture and Natural Resources* section of this catalog.

Admission

Before admission to graduate work, a student should have acquired a minimum of 25 credits in the social sciences, mathematics, statistics, agricultural economics, accounting, or business administration, or in some combination of these fields. Students with limited economics in their undergraduate programs will have to correct such deficiencies by completing collateral courses, not to count toward the degree, which serve as prerequisites for the graduate economics courses.

Applicants to the graduate programs are required to submit scores on the Graduate Record Examination General Test; in addition, applicants should arrange to have three letters of recommendation and transcripts of all prior collegiate course work supplied to the department.

Master of Arts

The Master of Arts degree is available to students enrolled in the Ph.D. degree program in Economics or, with departmental approval, as a second degree for students enrolled in other graduate degree programs. Only the Plan B (without thesis) option is available. Course requirements include the first-year core sequence in the Ph.D. program in Economics, which prepares students for continuing in the Ph.D. program or for professional careers that call for high-level training in economic theory and quantitative analysis methods.

In addition to meeting the requirements of the university, of the College of Social Science, and the Department of Economics, students must meet the requirements specified below.

Requirements for the Master of Arts Degree in Economics

1. Complete all of the following courses (22 credits):

EC	811A Mathematical Applications in Economics	2
EC	811B The Structure of Economic Analysis	2
EC	812A Microeconomics I	3
EC	812B Microeconomics II	3
EC	813A Macroeconomics I	3
EC	813B Macroeconomics II	3
EC	820A Econometrics IA	3
EC	820B Econometrics IB	3
2. Complete three additional Economics courses at the 800-900 level totaling at least 8 credits.
3. Obtain a master's level pass on the written comprehensive examination in microeconomic theory, macroeconomic theory, and econometrics.

Academic Standards

To remain in the program and receive the M. A. degree in economics, a student must:

1. Maintain at least a 3.00 grade-point average.
2. Earn a grade of 3.0 or higher in required 800-900 level economics courses.
3. The accumulation of grades below 3.0 (including N grades in the P-N grading system) in more than two courses of 3 or more credits each removes the student from the degree program; this policy does not apply to courses below the

400-level unless the courses are required for the student's program.

Doctor of Philosophy

Students may be admitted to the Doctor of Philosophy degree in Economics only for a fall semester.

In addition to meeting the requirements of the university and the College of Social Science, students must meet the requirements specified below.

Requirements for the Doctor of Philosophy Degree in Economics

1. Complete the core courses in economic theory, mathematical methods in economics, and econometrics.
2. Pass a comprehensive examination in microeconomic theory, macroeconomic theory, and econometrics.
3. Complete other course requirements as specified in the document *The Doctoral Program in Economics*, available from the Department of Economics.
4. Demonstrate competence in two fields of specialization and advanced methods.
5. Present a research paper at the Department of Economics spring conference.
6. Present a dissertation proposal to the student's guidance committee.
7. Write an acceptable dissertation and defend it successfully in a public oral examination.

Academic Standards

Refer to the Doctor of Philosophy degree statement in the *College of Social Science* section.

DEPARTMENT of GEOGRAPHY, ENVIRONMENT, and SPATIAL SCIENCES

Alan F. Arbogast, Chairperson

The discipline of geography, as the study of place and space, concerns itself with the analysis and explanation of the occurrence, distribution, and interrelationships of physical and cultural patterns on the earth's surface. The discipline is also interested in how the earth's physical and human landscapes change over time. Geography can be classified both as a social science and a natural science as it examines human beings and their environment and serves as a bridge between the physical and cultural worlds. The undergraduate program is designed to prepare students for various careers in business, industry, education and government.

Strengths of the department include physical geography (climate, geomorphology, soils, vegetation), economic geography, environmental change, spatial technologies (GIS, remote sensing, cartography), health/medical geography, urban geography, and nature-society interactions.

UNDERGRADUATE PROGRAMS

The Department of Geography, Environment, and Spatial Sciences offers programs in economic geography, environmental geography, human geography, and geographic information science leading to the Bachelor of Arts and Bachelor of Science degrees. Minors in Geography and Geographic Information Science are also available.

ECONOMIC GEOGRAPHY

The Bachelor of Science degree in Economic Geography provides a comprehensive program for students interested in the roles of space, place, location, scale, key agents, and forces in the economic sphere. The program prepares students to succeed in commercial, non-government organizations, nonprofits, or governmental realms as well as the pursuit of graduate degrees, with emphases on spatial planning and control of issues ranging from transport and markets to poverty and inequality. Students attain substantial quantitative and technical skills as well as practical skills for solving problems drawn from local, regional, and global settings.

Requirements for the Bachelor of Science Degree in Economic Geography

1. The University requirements for bachelor's degrees as described in the *Undergraduate Education* section of this catalog; 120 credits, including general elective credits, are required for the Bachelor of Science degree in Economic Geography.
 The University's Tier II writing requirement for the Economic Geography major is met by completing Geography 480. That course is referenced in item 3. below.
2. The requirements of the College of Social Science for the Bachelor of Science degree.
3. The following courses with a minimum 2.0 grade-point average (42 or 43 credits):

	CREDITS	
a.		One of the following courses (3 or 4 credits):
		LB 118 Calculus I 4
		MTH 124 Survey of Calculus I 3
		MTH 132 Calculus I 3
		MTH 152H Honors Calculus I 3
b.		The following course (3 credits):
		EC 201 Introduction to Microeconomics 3
c.		Both of the following courses (6 credits):
		GEO 113 Introduction to Economic Geography 3
		GEO 151 Introduction to Human Geography 3
d.		Both of the following courses (6 credits):
		GEO 221 Introduction to Geographic Information 3
		GEO 363 Introduction to Quantitative Methods for Geographers 3
e.		Three of the following courses (9 credits):
		GEO 413 Urban Geography 3
		GEO 414 Geography of Transportation 3
		GEO 415 Location Theory and Land Use Analysis 3
		GEO 418 The Ghetto 3
		GEO 453 Metropolitan Environments: Urban Forms and Land Uses 3
		GEO 459 Tourism in Regional Development 3
f.		The following course (3 credits):
		GEO 480 Senior Seminar 3
g.		Six additional credits in Geography courses at the 300-level and above.
h.		Two courses outside the Department of Geography, Environment, and Spatial Sciences (6 credits):
		CE 341 Transportation Engineering 3
		CE 448 Transportation Planning 3
		CSUS 320 Environmental Planning and Management 3
		CSUS 447 Community Economic Development 3
		CSUS 474 Advanced Topics in Tourism Management 3
		EC 301 Intermediate Microeconomics 3
		EC 306 Comparative Economic Systems 3
		EC 310 Economics of Developing Countries 3
		EC 340 Survey of International Economics 3
		EEP 320 Environmental Economics 3
		UP 314 Methods for Investigation of Urban Systems 4
		UP 353 Land Use Planning 4

In addition to the requirements for the major, students may elect to complete a cognate in business. The requirements for the cognate are met by completing four of the following courses (12 credits):

ACC	230	Survey of Accounting Concepts	3
FI	320	Introduction to Finance	3
GBL	323	Introduction to Business Law	3
MGT	325	Management Skills and Processes	3
MKT	327	Introduction to Marketing	3

ENVIRONMENTAL GEOGRAPHY

The Bachelor of Science degree in Environmental Geography provides comprehensive academic training in the environment and how its many aspects interrelate across the landscape. Geographic knowledge is essential for understanding rapid social and environmental change in a globalized society. Environmental geographers describe, analyze, and explain the arrangement of the Earth's physical features. With training in both the natural and social sciences, environmental geographers have a wide range of career opportunities in public and private sectors. They find work in consulting, government, tourism, teaching, environmental analysis, non-profit organizations, and natural resource management. Environmental scientists are increasingly in demand for jobs that require expertise in bridging the gap between the social science and physical science aspects of natural systems.

Requirements for the Bachelor of Science Degree in Environmental Geography

1. The University requirements for bachelor's degrees as described in the *Undergraduate Education* section of this catalog; 120 credits, including general elective credits, are required for the Bachelor of Science degree in Environmental Geography.
 The University's Tier II writing requirement for the Geography major is met by completing Geography 480. That course is referenced in item 3. a. below.
2. The requirements of the College of Social Science for the Bachelor of Science degree.
3. The following courses with a minimum 2.0 grade-point average (39 to 41 credits):

	CREDITS	
a.		One of the following courses (3 credits):
		MTH 124 Survey of Calculus I 3
		MTH 132 Calculus I 3
		MTH 152H Honors Calculus I 3
b.		Two of the following courses (6 or 7 credits):
		GEO 203 Introduction to Meteorology 3
		GEO 206 Physical Geography 3
		and
		GEO 206L Physical Geography Laboratory 1
		GEO 306 Environmental Geomorphology 3
		Students who choose Geography 206 must also enroll in Geography 206L either concurrently or in a subsequent term.
c.		One of the following courses (3 credits):
		GEO 113 Introduction to Economic Geography 3
		GEO 151 Introduction to Human Geography 3
		GEO 204 World Regional Geography 3
		GEO 330 Geography of the United States and Canada 3
		GEO 333 Geography of Michigan and the Great Lakes Region 3
		GEO 335 Geography of Latin America 3
		GEO 336 Geography of Europe 3
		GEO 337 Geography of Asia-Pacific 3
		GEO 338 Geography of Africa 3
		GEO 339 Geography of the Middle East and North Africa 3
d.		One of the following courses (3 or 4 credits):
		GEO 221 Introduction to Geographic Information 3
		GEO 221L Geographic Information Laboratory 1
		GEO 363 Introduction to Quantitative Methods for Geographers 3
		Students who choose Geography 221 must also enroll in Geography 221L either concurrently or in a subsequent term.
e.		The following course (3 credits):
		GEO 480 Senior Seminar 3
f.		Twelve additional credits in Geography courses including at least 6 credits at the 300-level and above and 6 credits at the 400-level.
g.		Nine additional credits in courses from the College of Agriculture and Natural Resources or the College of Natural Science at the 300-level and above.

GEOGRAPHIC INFORMATION SCIENCE

The Bachelor of Science Degree in Geographic Information Science provides a rigorous, in-depth program for students interested in the application of information technology to the spatial dimensions of the Earth's human and physical systems. It is an ideal program for those pursuing a career in the spatial technology sector, or for those considering graduate study in geography and related disciplines. Students attain substantial general quantitative and technical skills, as well as practical experience in the application of skills to solving problems drawn from local, regional, and global settings.

Requirements for the Bachelor of Science Degree in Geographic Information Science

1. The University requirements for bachelor's degrees as described in the *Undergraduate Education* section of this catalog; 120 credits, including general elective credits, are required for the Bachelor of Science degree in Geographic Information Science.
The University's Tier II writing requirement for the Geographic Information Science major is met by completing Geography 425. That course is referenced in item 3. below.
2. The requirements of the College of Social Science for the Bachelor of Science degree.
3. The following required major courses with a minimum 2.0 grade-point average (40 to 44 credits):
 - a. One of the following courses (3 or 4 credits):

LB 118	Calculus I	4
MTH 124	Survey of Calculus I	3
MTH 132	Calculus I	3
MTH 152H	Honors Calculus I	3
 - b. Two of the following courses (7 or 8 credits):

CSE 131	Technical Computing and Problem Solving	3
CSE 231	Introduction to Programming I	4
CSE 232	Introduction to Programming II	4
 - c. One of the following courses (3 credits):

GEO 113	Introduction to Economic Geography	3
GEO 151	Introduction to Human Geography	3
GEO 206	Physical Geography	3
GEO 333	Geography of Michigan and the Great Lakes Region	3
 - d. All of the following courses (18 credits):

GEO 221	Introduction to Geographic Information	3
GEO 221L	Introduction to Geographic Information Laboratory	1
GEO 324	Remote Sensing of the Environment	4
GEO 325	Geographic Information Systems	3
GEO 363	Introduction to Quantitative Methods for Geographers and Planners	3
GEO 424	Advanced Remote Sensing	4
 - e. Two of the following courses (6 to 8 credits):

GEO 326	Cartographic Design and Production	4
GEO 426	Thematic Cartography	4
GEO 428	Digital Terrain Analysis	4
GEO 453	Metropolitan Environments: Urban Forms and Land Uses	3
GEO 498	Internship in Geography	3
 - f. The following course (3 credits):

GEO 425	Problems in Geographic Information Science (W)	3
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CREDITS

- c. Nine additional credits in Geography including at least one course at the 400 level.

Requirements for the Bachelor of Science Degree in Geography

1. The University requirements for bachelor's degrees as described in the *Undergraduate Education* section of this catalog; 120 credits, including general elective credits, are required for the Bachelor of Science degree in Geography.
The University's Tier II writing requirement for the Geography major is met by completing Geography 480. That course is referenced in item 3. a. below.
2. The requirements of the College of Social Science for the Bachelor of Science degree.
The College's NATURAL SCIENCE REQUIREMENT for the Geography major is met by completing 15 additional credits in courses offered by a department or program in the College of Natural Science, chosen from the following: Biochemistry and Molecular Biology, Biological Science, Chemistry, Entomology, Geological Sciences, Lyman Briggs, Mathematics, Microbiology and Molecular Genetics, Physics and Astronomy, Plant Biology, Plant Pathology, Physiology, Statistics and Probability, and Zoology. Students should see their academic advisor to obtain a list of approved courses which will meet this requirement.
3. The following required major courses:
 - a. All of the following courses:

GEO 113	Introduction to Economic Geography	3
GEO 151	Cultural Geography	3
GEO 206	Physical Geography	3
GEO 206L	Physical Geography Laboratory	1
GEO 221	Introduction to Geographic Information	3
GEO 463	Introduction to Quantitative Methods for Geographers and Planners	3
GEO 480	Senior Seminar (W)	3
 - b. One of the following courses:

GEO 330	Geography of the United States and Canada	3
GEO 333	Geography of Michigan and the Great Lakes Region	3
GEO 335	Geography of Latin America	3
GEO 336	Geography of Europe	3
GEO 337	Geography of East Asia	3
GEO 338	Geography of Africa	3
 - c. Nine additional credits in Geography including at least one course at the 400 level.

CREDITS
31

GEOGRAPHY

Within the discipline of geography, a tracking system permits students pursuing a bachelor's degree to concentrate in various interest areas. The departmental advisor and faculty members are available to discuss program options and career opportunities with interested students.

Requirements for the Bachelor of Arts Degree in Geography

1. The University requirements for bachelor's degrees as described in the *Undergraduate Education* section of this catalog; 120 credits, including general elective credits, are required for the Bachelor of Arts degree in Geography.
The University's Tier II writing requirement for the Geography major is met by completing Geography 480. That course is referenced in item 3. a. below.
2. The requirements of the College of Social Science for the Bachelor of Arts degree.
3. The following required major courses:
 - a. All of the following courses:

GEO 113	Introduction to Economic Geography	3
GEO 151	Cultural Geography	3
GEO 206	Physical Geography	3
GEO 206L	Physical Geography Laboratory	1
GEO 221	Introduction to Geographic Information	3
GEO 463	Introduction to Quantitative Methods for Geographers and Planners	3
GEO 480	Senior Seminar (W)	3
 - b. One of the following courses:

GEO 330	Geography of the United States and Canada	3
GEO 333	Geography of Michigan and the Great Lakes Region	3
GEO 335	Geography of Latin America	3
GEO 336	Geography of Europe	3
GEO 337	Geography of East Asia	3
GEO 338	Geography of Africa	3

CREDITS

HUMAN GEOGRAPHY

The Bachelor of Arts degree in Human Geography provides comprehensive academic training in the human dimensions of the environment, particularly how people are affected by the environment, and how they alter and change it. Geographic knowledge is essential for understanding rapid social and environmental change in a globalized society. Human geographers describe, analyze, and explain the arrangement of the Earth's cultures. With training in both the natural and social sciences, human geographers have a wide range of career opportunities in public and private sectors. They find work in consulting, government, urban and regional planning, locational analysis, marketing, real estate, tourism, transportation, and teaching. Geographers are increasingly in demand for jobs that require expertise in geospatial techniques, such as geographic information systems (GIS), global positioning systems (GPS), remote sensing, and cartography.

Requirements for the Bachelor of Arts Degree in Human Geography

1. The University requirements for bachelor's degrees as described in the *Undergraduate Education* section of this catalog; 120 credits, including general elective credits, are required for the Bachelor of Arts degree in Human Geography.
The University's Tier II writing requirement for the Geography major is met by completing Geography 480. That course is referenced in item 3. a. below.
2. The requirements of the College of Social Science for the Bachelor of Arts degree.
3. The following courses with a minimum 2.0 grade-point average (34 to 35 credits):
 - a. Both of the following courses (6 credits):

GEO 113	Introduction to Economic Geography	3
GEO 151	Introduction to Human Geography	3
 - b. One of the following courses (3 or 4 credits):

GEO 203	Introduction to Meteorology	3
GEO 206	Physical Geography	3

CREDITS

SOCIAL SCIENCE

Department of Geography, Environment, and Spatial Sciences

- and
- GEO 206L Physical Geography Laboratory 1
- GEO 306 Environmental Geomorphology 3
- Students who choose Geography 206 must also enroll in Geography 206L either concurrently or in a subsequent term.
- c. One of the following courses (3 credits):
- GEO 204 World Regional Geography 3
- GEO 330 Geography of the United States and Canada . . . 3
- GEO 333 Geography of Michigan and the Great Lakes Region 3
- GEO 335 Geography of Latin America 3
- GEO 336 Geography of Europe 3
- GEO 337 Geography of Asia-Pacific 3
- GEO 338 Geography of Africa 3
- GEO 339 Geography of the Middle East and North Africa . . 3
- d. All of the following courses (7 credits):
- GEO 221 Introduction to Geographic Information 3
- GEO 221L Geographic Information Laboratory 1
- GEO 363 Introduction to Quantitative Methods for Geographers 3
- e. The following course (3 credits):
- GEO 480 Senior Seminar 3
- f. Twelve additional credits in Geography courses including at least 6 credits at the 300-level and above and 6 credits at the 400-level.

MINOR IN GEOGRAPHY

The Minor in Geography, which is administered by the Department of Geography, Environment, and Spatial Sciences, provides a fundamental foundation to the breadth of study within the field of geography as well as grounding in general geographic theory.

The minor is available as an elective to students who are enrolled in bachelor's degree programs at Michigan State University other than the Bachelor of Arts or Bachelor of Science Degrees in Geography. With the approval of the department and college that administers the student's degree program, the courses that are used to satisfy the minor may also be used to satisfy the requirements for the bachelor's degree.

Students who plan to complete the requirements for the minor should consult an undergraduate advisor in the Department of Geography.

Requirements for the Minor in Geography

CREDITS

Complete a minimum of 21 credits in the Department of Geography, Environment, and Spatial Sciences from the following:

- 1. A minimum of 9 credits from the following:
 - GEO 113 Introduction to Economic Geography 3
 - GEO 151 Cultural Geography 3
 - GEO 203 Introduction to Meteorology 3
 - GEO 206 Physical Geography 3
 - GEO 206L Physical Geography Laboratory 1
 - GEO 221 Introduction to Geographic Information 3
- 2. A minimum of 3 credits from the following:
 - GEO 204 World Regional Geography 3
 - GEO 330 Geography of the United States and Canada 3
 - GEO 333 Geography of Michigan and the Great Lakes Region . . . 3
 - GEO 335 Geography of Latin America 3
 - GEO 336 Geography of Europe 3
 - GEO 337 Geography of Asia-Pacific (I) 3
 - GEO 338 Geography of Africa 3
- 3. Complete a minimum of 9 additional credits in Geography courses, of which 6 credits must be at the 400-level. The courses must be approved by the student's academic advisor.

MINOR IN GEOGRAPHIC INFORMATION SCIENCE

The Minor in Geographic Information Science, which is administered by the Department of Geography, Environment, and Spatial Sciences provides a fundamental foundation to the breadth of study within the field of geographic information science.

The minor is available as an elective to students who are enrolled in bachelor's degree programs at Michigan State University other than the Bachelor of Science Degree in Geographic Information Science. With the approval of the department and college that administers the student's degree program, the courses that are used to satisfy the minor may also be used to satisfy the requirements for the bachelor's degree.

Students who plan to complete the requirements for the minor should consult an undergraduate advisor in the Department of Geography, Environment, and Spatial Sciences.

Requirements for the Minor in Geographic Information Science

CREDITS

Complete a minimum of 21 credits in the Department of Geography, Environment, and Spatial Sciences from the following:

- 1. Both of the following courses (4 credits):
 - GEO 221 Introduction to Geographic Information 3
 - GEO 221L Introduction to Geographic Information Laboratory 1
- 2. One of the following courses (3 credits):
 - GEO 490 Independent Study 3
 - GEO 498 Internship in Geography 3

Both Geography 490 and 498 must have geographic information science, remote sensing, or cartography content to fulfill this requirement. Students should obtain advisor approval prior to enrolling in a section of either of these courses.
- 3. Complete a minimum of 14 credits from the following courses:
 - GEO 324 Remote Sensing of the Environment 4
 - GEO 325 Geographic Information Systems 3
 - GEO 363 Introduction to Quantitative Methods for Geographers . . 3
 - GEO 419 Application of Geographic Information Systems to Natural Resources Management 4
 - GEO 423 Cartographic Design and Production 4
 - GEO 424 Advanced Remote Sensing 4
 - GEO 425 Problems in Geographic Information Science (W) 3
 - GEO 426 Thematic Cartography 4
 - GEO 428 Digital Terrain Analysis 4
 - GEO 453 Metropolitan Environments: Urban Forms and Land Uses 3

Additional courses as approved by the student's academic advisor.

TEACHER CERTIFICATION OPTIONS

A geography disciplinary minor is available for secondary teacher certification.

Students who elect the geography disciplinary minor must contact the Department of Geography, Environment, and Spatial Sciences to plan their programs of study.

For additional information, refer to the statement on *TEACHER CERTIFICATION* in the *Department of Teacher Education* section of this catalog.

GRADUATE STUDY

The Department of Geography, Environment, and Spatial Sciences offers programs in the discipline of geography leading to the Master of Science and Doctor of Philosophy degrees.

Students who are enrolled in master's or doctoral degree programs in the Department of Geography, Environment, and Spatial Sciences may elect an Interdepartmental Specialization in Cognitive Science. For additional information, refer to the statement on *Interdepartmental Graduate Specializations in Cognitive Science*. For additional information, contact the Department of Geography, Environment, and Spatial Sciences.

GEOGRAPHY

Master of Science

The master's program in geography is designed to enable the student to achieve professional competence in the discipline. This program is intended to increase substantive and technical proficiency.

In addition to meeting the requirements of the university and of the College of Social Science, students must meet the requirements specified below.

Admission

All students seeking the master's degree in geography are expected to have completed courses in physical, human, and regional geography; in quantitative methods; and in geographic information science. Applicants who have not completed all of these requirements may be admitted provisionally, and must remedy all course deficiencies before the degree is granted. Any course work complete to correct course deficiencies may not be counted towards the requirements for the degree.

REGULAR STATUS: The requirements for admission to the program include:

1. A bachelor's degree from a recognized college or university preferably with an undergraduate major in geography or at least 14 credits in geography and related fields.
2. A grade-point average of at least 3.40 at the time of application in both (1) all geography courses and (2) all courses completed during the junior and senior years.
3. Satisfactory scores on the Graduate Record Examination General Test.

Requirements for the Master of Science Degree in Geography

The Master of Science in Geography is available only under Plan A (with thesis). The student must complete a total of 30 credits distributed as follows:

	CREDITS
1. Both of the following courses:.....	7 to 9
GEO 886 Research Design in Geography	3
GEO 899 Master's Thesis Research.....	4 to 6
2. One of the following four seminars:.....	3
GEO 871 Seminar in Physical Geography	3
GEO 872 Seminar in Human Geography	3
GEO 873 Seminar in Human-Environment Geography	3
GEO 874 Seminar in Geographic Information Science.....	3
3. Complete 3 or 4 credits in a geospatial technology course at the 400 level or 800-level. A list of courses available to fulfill this requirement is available from the student's guidance committee. Course work used to fulfill this requirement must be taken while enrolled as a graduate student at Michigan State University.	
4. Complete 3 or 4 credits at the 400 or 800- level in an area of cartography, geographic information science, remote sensing, quantitative methods, qualitative methods, world language, or programming. A list of courses available to fulfill this requirement is available from the student's guidance committee. Course work used to fulfill this requirement must be taken while enrolled as a graduate student at MSU. The course used to fulfill requirement 3. above may not be used to fulfill this requirement.	
5. Complete an additional 10 to 14 credits of course work taken inside or outside of the department. The course work must be approved by the student's guidance committee.	
6. Presentation of a research paper or poster at a professional meeting.	
7. Pass a final oral examination in defense of the thesis.	

GEOGRAPHIC INFORMATION SCIENCE

Master of Science

The Master of Science in Geographic Information Science is a Plan B (non-thesis) degree that places emphasis on applications of analytical techniques in the field of geography. Students are trained in advanced technologies such as remote sensing, geographic information systems, cartography, and spatial analysis. The degree is aimed toward professionals who want to acquire expertise in research techniques, but who may not wish to pursue a Doctor of Philosophy degree. This program is appropriate for persons with interest, but not necessarily strong training, in the geographical sciences.

Admission

Admission to the program is based on an evaluation of the complete application packet, which includes all transcripts and grades, letters of recommendation, a completed Background In-

formation Form, a statement of purpose, and a summary of professional experience and awards.

Highly ranked applicants will normally have: (1) an undergraduate degree in geography or a closely related field, and/or (2) significant professional experience dealing with the analysis of spatial data in public sector environmental management, transportation planning or evaluation, or urban planning.

All students are expected to have completed: (1) the equivalent of Geography 221, Introduction to Geographic Information which is an integrated introduction to cartography, geographic information systems, and remote sensing and (2) at least one of the following mathematics courses: Calculus I, Linear Algebra, or an introductory statistics course.

In addition to meeting the requirements of the university and the College of Social Science, students must meet the requirements specified below.

Requirements for the Master of Science Degree in Geographic Information Science

All students in the Master of Science in Geographic Information Science must earn at least 30 credits, approved by the student's guidance committee, distributed as follows:

	CREDITS
1. All of the following courses:.....	9
GEO 425 Problems in Geographic Information Science (W)	3
GEO 820 GIS and Management.....	3
GEO 821 GIS Practicum.....	3
2. At least one 400-level or higher course in cartography	3 or 4
3. At least one 400-level or higher course in quantitative methods	4
4. Complete one of the following courses:.....	3 or 4
GEO 825 Geoprocessing	4
GEO 826 Seminar in Cartography and Geoprocessing	3
GEO 827 Digital Image Processing and Analysis	4
5. Related course work in geography and other disciplines	9
6. Pass an exit examination administered by the student's graduate committee.	

Doctor of Philosophy

The Ph.D. program in geography is designed to develop the student's ability to conduct original research with special reference to:

1. understanding of scientific inquiry.
2. knowledge of the geographic discipline.
3. understanding of a specialized area of geography such as people/environment, physical geography, regional development, or economic-regional science.
4. proficiency with analytical and technical skills particularly with respect to spatial data analysis and manipulation.
5. skills in communicating the results of research.

In addition to meeting the requirements of the University and of the College of Social Science, students must meet the requirements specified below.

Admission

Admission to the doctoral program is based upon an evaluation of the student's academic records related to both the bachelor's and master's degrees, Graduate Record Examination (GRE) General Test scores, letters of recommendation, written statements, and other pertinent information such as professional experience and related achievements. Typical entrants to the doctoral program present a grade-point average of 3.60 or higher in a recognized master's degree program, which usually includes a thesis, and satisfactory scores on the GRE.

Requirements for the Doctor of Philosophy Degree in Geography

The student must:

1. Complete at least 56 credits while enrolled in the doctoral program including the following courses:

SOCIAL SCIENCE

Department of Geography, Environment, and Spatial Sciences

	CREDITS	
a. The following courses:	6	
GEO 886 Research Design in Geography	3	
GEO 986 Theory and Methods in Geography	3	
b. At least two of the following four seminars:	6	
GEO 871 Seminar in Physical Geography	3	
GEO 872 Seminar in Human Geography	3	
GEO 873 Seminar in Human-Environment Geography	3	
GEO 874 Seminar in Geographic Information Science	3	
c. One advanced-level tool course:	3	
Tool courses may be in such areas as computer science, foreign language, statistics or mathematics, cartography, remote sensing, geographic information science and social science or physical science research methods. The courses may be administered by the Department of Geography, Environment, and Spatial Sciences or by another department or school.		
d. Courses that focus on a specialized area of geography and related course work:	17 or 18	
2. In consultation with the student's guidance committee, submit a manuscript to a refereed journal.		

2. The requirements of the College of Social Science for the Bachelor of Arts degree.
3. The following requirements for the major (36 credits):

		CREDITS
a. One of the following courses (3 credits):		
HST 201 Historical Methods and Skills	3	
HST 201H Historical Methods and Skills for Honors Students	3	
b. Three of the following courses (12 credits):		
HST 140 World History to 1500	4	
HST 150 World History since 1500	4	
HST 202 U.S. History to 1876	4	
HST 203 U.S. History since 1876	4	
HST 205 The Ancient Mediterranean and the Medieval World	4	
HST 206 European History since 1500	4	
HST 208 Introduction to African History, Culture and Society	4	
HST 209 Traditional East Asia	4	
HST 210 Modern East Asia	4	
HST 211 Colonial Latin America	4	
HST 212 National Latin America	4	
c. Two of the following courses (6 credits):		
HST 480 Seminar in American History (W)	3	
HST 481 Seminar in Ancient History (W)	3	
HST 482 Seminar in Medieval History (W)	3	
HST 483 Seminar in Modern European History (W)	3	
HST 484 Seminar in African History (W)	3	
HST 485 Seminar in Asian History (W)	3	
HST 486 Seminar in Latin American History (W)	3	
HST 487 Seminar in Comparative History (W)	3	
HST 488 Seminar in International Relations (W)	3	
HST 489 Seminar in Digital History (W)	3	

The completion of this requirement satisfies the department's capstone course requirement. With the prior approval of the undergraduate advisor and internship coordinator, an internship taken for at least 3 credits may be substituted for the capstone course requirement.

Exception: credits in History 490 or 499H may not be used to satisfy this requirement.

- d. Twelve credits in History courses at the 300-400 level.
- e. Three additional credits in a History course.
- f. At least two courses totaling 6 credits from at least three of the following geographical areas: Africa, Asia, Europe, Latin American, the United States, or the world. This requirement may be fulfilled by the courses referenced in items 3. b. through 3. e.
- g. At least two courses totaling 6 credits whose emphasis is on the period before 1800. This requirement may be fulfilled by the courses referenced in items 3. b. through 3. e.
- h. At least two courses totaling 6 credits whose emphasis is on the period after 1800. This requirement may be fulfilled by the courses referenced in items 3. b. through 3. e.

DEPARTMENT of HISTORY

Walter Hawthorne, Chairperson

The Department of History offers courses which deal with human societies in all geographical regions and time-periods. Courses in African, Asian, Latin American, European, and North American history focus on issues of race, ethnicity, politics, military affairs, sexuality, and gender while providing insight into the human condition as a whole.

All courses in history have the goal of helping students learn how to think and write historically in a critical manner. History courses emphasize learning how to identify viewpoints, gather and organize information, present conclusions in essays and on the internet, distinguish facts from interpretations, recognize historical relationships and patterns, and appreciate the relevance of historical insight to the understanding of current events and problems.

By involving all students in the process of careful analysis of evidence and thoughtful, cogent expression of ideas, the department seeks to equip students with intellectual skills which have multiple uses in the larger society outside the university. Its programs, in addition to providing a liberal education, are designed to serve as professional preparation in various fields, including teaching; the law; federal, state, and local government; work in historical societies and museums; Web site development and research.

UNDERGRADUATE PROGRAMS

The department offers a Bachelor of Arts degree in History and a Bachelor of Arts degree in History Education for student's pursuing teacher certification. Students interested in teacher certification should contact the student affairs advisor in the College of Education. A Minor in Defense Studies and Leadership is also available.

HISTORY

Requirements for the Bachelor of Arts Degree in History

1. The University requirements for bachelor's degrees as described in the *Undergraduate Education* section of this catalog; 120 credits, including general elective credits, are required for the Bachelor of Arts degree in History.
The University's Tier II writing requirement for the History major is met by completing one of the following courses: History 480, 481, 482, 483, 484, 485, 486, 487, 488 or 489. Those courses are referenced in item 3. below.

HISTORY EDUCATION

The Bachelor of Arts degree in History Education is designed to train students teach history in elementary and secondary schools.

Requirements for the Bachelor of Arts Degree in History Education

1. The University requirements for bachelor's degrees as described in the *Undergraduate Education* section of this catalog; 120 credits, including general elective credits, are required for the Bachelor of Arts degree in History Education.
The University's Tier II writing requirement for the History Education major is met by completing one of the following courses: History 480, 481, 482, 483, 484, 485, 486, 487, or 488. Those courses are referenced in item 3.c. below.
2. Students in the History Education major are not required to complete the College of Social Science requirements referenced under the heading *Graduation Requirements for the Bachelor of Arts and Bachelor of Science Degrees* in the the *College of Social Science* section of this catalog.
3. The following requirements for the major:

		CREDITS
a. All of the following courses:		22
HST 140 World History to 1500	4	
HST 150 World History since 1500	4	
HST 201 Historical Methods and Skills	3	
HST 202 U.S. History to 1876	4	
HST 203 U.S. History since 1876	4	
HST 320 History of Michigan	3	
b. One 300-400 level history course that is not on the United States. The course must be approved by the student's academic advisor and may not have been used to fulfill any other requirement.		
c. One of the following courses (3 credits):		

HST	480	Seminar in American History (W)	3
HST	481	Seminar in Ancient History (W)	3
HST	482	Seminar in Medieval History (W)	3
HST	483	Seminar in Modern European History (W)	3
HST	484	Seminar in African History (W)	3
HST	485	Seminar in Asian History (W)	3
HST	486	Seminar in Latin American History (W)	3
HST	487	Seminar in Comparative History (W)	3
HST	488	Seminar in International Relations (W)	3
d.		Two 300-400 level history courses approved by the student's academic advisor. These courses may not be used to fulfill any other requirement.	
4.		All of the following courses (9 credits):	
GEO	204	World Regional Geography	3
GEO	221	Introduction to Geographic Information	3
GEO	330	Geography of the United States and Canada	3
5.		A secondary disciplinary teaching minor chosen from the list of approved secondary education minors for teacher certification. Refer to the <i>Teacher Certification</i> section of the <i>Department of Teacher Education</i> . (20 to 26 credits)	
6.		Both of the following courses (6 credits):	
TE	150	Reflections on Learning	3
TE	250	Human Diversity, Power and Opportunity in Social Institutions	3
7.		One of the following groups of courses (14 or 15 credits):	
a.		All of the following courses for secondary majors:	
TE	302	Learners and Learning in Contexts - Secondary (W)	4
TE	407	Teaching Subject Matter to Diverse Learners - Secondary (W)	5
TE	408	Crafting Teaching Practice - Secondary (W)	5
		Students whose teaching major and minor are in different subject matter are also required to complete the following course:	
TE	409	Crafting Teaching Practices in the Secondary Teaching Minor	1
b.		All of the following courses for elementary majors:	
TE	301	Learners and Learning in Contexts - Elementary (W)	3
TE	403	Teaching of Science to Diverse Learners - Elementary	3
TE	404	Teaching of Social Studies to Diverse Learners - Elementary	3
TE	405	Teaching of Language and Literacy to Diverse Learners - Elementary	3
TE	406	Teaching of Mathematics to Diverse Learners - Elementary	3

MINOR IN DEFENSE STUDIES AND LEADERSHIP

The Minor in Defense Studies and Leadership, which is administered by the Department of History, provides students with a broad perspective on the military with analysis of all service branches of the Armed Forces from a historical and social scientific perspective. It also prepares current cadets for active duty service.

The minor is available as an elective to students who are enrolled in bachelor's degree programs at Michigan State University. With the approval of the department and college that administers the student's degree program, the courses that are used to satisfy the minor may also be used to satisfy the requirements for the bachelor's degree.

Students who plan to complete the requirements for the minor should consult an undergraduate advisor in the Department of History.

Requirements for the Minor in Defense Studies and Leadership

		CREDITS	
Students must complete 22 credits from the following:			
1.	One course from each of the following groups (4 credits):		
a.	AS 111	Foundation of the United States Air Force I	1
	MS 110	Army Leadership and Officer Development	1
b.	AS 112	Foundation of the United States Air Force II	1
	MS 120	Introduction to Army Leadership and Problem-Solving	1
c.	AS 211	The Evolution of USAF Air and Space Power I	1
	MS 210	Values and Ethics of Army Leaders	1
d.	AS 212	The Evolution of USAF Air and Space Power II	1
	MS 220	Challenges in Army Leadership	1
2.	One of the following groups of courses (6 credits):		
a.	AS 321	Air Force Leadership Studies I	3
	AS 322	Air Force Leadership Studies II	3
b.	MS 310	Leading and Problem Solving in Army Units	3
	MS 320	Army Small Unit Tactics and Leadership	3

3.	One of the following groups of courses (6 credits):		
a.	AS 421	National Security Affairs	3
	AS 422	National Security Affairs and Preparation for Active Duty	3
b.	MS 410	Adaptive Army Leadership	3
	MS 420	Army Leadership in a Complex World	3
4.	One of the following courses (3 credits):		
HST	304	The American Civil War	3
HST	326	United States Foreign Relations Since 1914	3
HST	328	Military History of the United States 1900-Present	3
HST	390	History of International Relations	3
HST	395	The Social History of War	3
HST	414	World War II: Causes, Conduct and Consequences	3
5.	One of the following courses (3 credits):		
CJ	422	Comparative and Historical Criminal Justice	3
CJ	439	Homeland Security	3
CJ	473	Comparative Constitutional Law	3
PLS	140	Government and Politics of the World	3
PLS	344	Politics in the Third World	3
PLS	362	Foreign Policy	3
PLS	363	International Political Conflict	3
PSY	255	Industrial and Organizational Psychology	3
SOC	331	Political Sociology	3

SPECIALIZATION IN AFRICAN AMERICAN HISTORY AND CULTURE

The Specialization in African American History and Culture, which is administered by the Department of History, is designed to:

1. Help students to better understand and appreciate African American art, history, literature, music, and religion.
2. Help students to become more aware of the role of African Americans within the context of American history.
3. Promote scholarship in African American history and culture.

Students who plan to complete the requirements for the specialization must contact the undergraduate advisor for African American History and Culture in the Department of History and sign a statement of interest in the specialization. The student's program of study for the specialization must be approved by that advisor.

With the approval of the department and college that administer the student's degree program, courses that are used to satisfy the requirements for the specialization may also be used to satisfy the requirements for the bachelor's degree.

Requirements for the Specialization in African American History and Culture

		CREDITS	
1.	Core (9 credits). The student must complete one of the following concentrations below:		
	English		
ENG	349	African-American Literature I ¹	3
ENG	350	African-American Literature II ¹	3
ENG	450	Studies in African American Literature ¹	3
	History		
HST	310	African American History to 1876 ¹	3
HST	311	African American History Since 1876 ¹	3
HST	312	African American Women ¹	3
2.	Electives. The student must complete a minimum of 11 credits in at least three of the courses listed below. A student who meets the Core requirement by completing the English concentration must complete at least three courses outside the Department of English. A student who meets the Core requirement by completing the History concentration must complete at least three courses outside the Department of History.		
IAH	211C	Area Studies and Multicultural Civilizations: The Americas (D) ²	4
IAH	241A	Creative Arts and Humanities: Music and Society in the Modern World (D) ²	4
ENG	349	African-American Literature I ¹	3
ENG	350	African-American Literature II ¹	3
ENG	353	Women and Literature ³	3
ENG	405	Language Use in the African-American Community	3
ENG	450	Studies in African American Literature ¹	3
ENG	463	Studies in Literature of Africa and the African Diaspora	3
HST	310	African American History to 1876 ¹	3
HST	311	African American History Since 1876 ¹	3
HST	312	African American Women ¹	3
HST	322	History of the American South	3
HST	480	Seminar in American History ⁴	3
MUS	130	Jazz Band	1
MUS	131	Jazz Combo	1

SOCIAL SCIENCE
Department of History

MUS 330	Advanced Jazz Improvisation I	2
MUS 331	Advanced Jazz Improvisation II	2
WRA 125	Writing: The American Ethnic and Racial Experience ¹	4

¹ This course may be used to satisfy either the requirement referenced in item 1. or the requirement referenced in item 2., but not both of those requirements.

² Only one of the following three courses may be used to satisfy the requirements for the Specialization in African American History and Culture: Writing, Rhetoric and American Cultures 125; Integrative Studies in Arts and Humanities 211C, 241A. That course may also be used to satisfy university requirements.

³ To be counted toward the requirements for the Specialization in African American History and Culture, the content of this course must focus on African American culture. The undergraduate advisor for African American History and Culture in the Department of History must approve in writing the content of this course before the student enrolls in the course.

⁴ To be counted toward the requirements for the Specialization in African American History and Culture, the content of this course must focus on African American history. The undergraduate advisor for African American History and Culture in the Department of History must approve in writing the content of this course before the student enrolls in the course.

TEACHER CERTIFICATION OPTIONS

The history education disciplinary major leading to the Bachelor of Arts degree is available for teacher certification.

A history disciplinary minor is also available for teacher certification.

Students who elect the history education disciplinary major or the history disciplinary minor must contact the Department of History.

For additional information, refer to the statement on TEACHER CERTIFICATION in the *Department of Teacher Education* section of this catalog.

GRADUATE STUDY

Graduate programs in the Department of History are designed primarily for students whose career goals require a doctoral degree. The department welcomes applicants who are prepared to pursue a rigorous program of graduate study.

HISTORY

Master of Arts

The Master of Arts degree program in history is designed for students who desire a general course of advanced study in the field.

In addition to meeting the requirements of the university and of the College of Social Science, students must meet the requirements specified below.

Admission

Admission to graduate study in the Department of History is primarily to the doctoral program. However, under certain circumstances, the department will consider applications for admission to the Master of Arts in History from students who wish to earn a master's degree in preparation for the doctoral degree. Please consult with the Departmental Graduate Studies Director if you wish to apply for the Master of Arts in History.

To be considered for admission to the Master of Arts degree program in history, an applicant must:

1. Have the results of the Graduate Record Examination (GRE) General Test and the results of the GRE Subject Test in History forwarded to the department.
2. Submit to the department a term paper that the applicant considers to be a fair representation of his or her ability in research and writing.
3. Include in the letter required by the college a 500–1000 word statement that addresses the applicant's goals in pursuing a Master of Arts degree program in history.

To be admitted to the program on regular status, an applicant must have:

1. A baccalaureate degree in history or in another field.
2. A grade–point average of at least 3.50 for the last two years of undergraduate study.
3. Completed a minimum of 20 semester credits in history courses with a grade–point average of at least 3.50.
4. Scores in at least the upper one–quarter on the verbal section of the GRE General Test and on the GRE Subject Test in History.

In addition, an international applicant is required to have fulfilled the university's English language proficiency requirement as described in the *Graduate Education* section of this catalog in one of the following three ways:

1. Have a total score of 580 (paper version) or 237 (computer version) or above on the **Test of English as a Foreign Language** with no subscore below 55 (paper version) or 21 (computer version) and have the approval of the English Language Center.
2. Have an average score of 85 or higher on the **Michigan English Language Assessment Battery** with no subscore below 83 and have the approval of the English Language Center.
3. Have an average score of 85 or higher on the **English Language Center Test** with no subscore below 83 and have the approval of the English Language Center.

Guidance Committee

Before completing 8 credits in history courses, the student, with the assistance of the Graduate Director, must constitute a guidance committee of at least two faculty members in the Department of History who represent different fields of history. Until the student's guidance committee has been established, the student's program of study must be approved by the Graduate Director.

Requirements for the Master of Arts Degree in History

The program is available under both Plan A (with thesis) and Plan B (without thesis). A total of 30 credits is required for the degree under either Plan A or Plan B. The student's program of study must be approved by the student's guidance committee. The student must meet the requirements specified below:

Requirements for Both Plan A and Plan B

1. Complete HST 803 Seminar in Methodology of Historical Research (3 credits).
2. Complete at least 15 credits in 800-900 level history courses including one 3 credit course in historiography relevant to the student's program of study.
3. Demonstrate the ability to read historical literature in one foreign language. Credits in courses in foreign language may not be counted toward the requirements for the Master of Arts or Doctor of Philosophy in History degree programs.

Additional Requirements for Plan A

1. Complete 6 credits of HST 899 Master's Thesis Research.
2. Pass a final oral examination that covers the student's program of study and thesis.

Additional Requirements for Plan B

1. Pass a certifying examination, consisting of three parts, one testing the major area and two tests in each of the student's minor areas.

Academic Standards

A student who does not demonstrate a reading knowledge of a foreign language during the first year of enrollment in the program will not be permitted to enroll in any courses with the exception of courses in a foreign language, until that requirement has been satisfied.

Doctor of Philosophy

The program leading to the doctoral degree with a major in history is designed to provide wide knowledge in several fields of history, specialized competence in a limited area, and research techniques that will prepare the student for a career in teaching, research, government service, private industry, and other areas of professional historical activity.

The following fields of study are available to doctoral students in the department:

- Ancient history
- Medieval history
- Early modern European history
- Modern Western European history
- Russian history
- East European history
- American history
- African–American history
- History of the Atlantic world
- Latin American and Caribbean history
- Comparative Black history
- African history
- Asian history
- The history of women and gender relations

The department recognizes the high importance of developing among its doctoral candidates a proficiency in college teaching. To the limit of its resources, it undertakes to provide experience in teaching in the form of graduate assistantships, along with organized discussions of the ends and means of the teaching career.

In addition to meeting the requirements of the university and of the College of Social Science, students must meet the requirements specified below.

Admission

Students are admitted to the program for fall semester only. The department must receive all application materials by January 1. Decisions on admission are announced on or shortly after March 31. In making admissions decisions, the department considers the competencies of the faculty and the needs of students and the profession.

To be considered for admission to the Doctor of Philosophy degree program in history, an applicant must:

1. Have the results of the Graduate Record Examination (GRE) General Test and the Subject Test in History forwarded to the department.
2. Submit a term paper to the department that the applicant considers to be a fair representation of his or her ability in research and writing.
3. Include in a letter required by the college a 500-1000 word statement that addresses the applicant's goals in pursuing a Doctor of Philosophy degree in history.
4. Have at least three individuals, preferably scholars with whom the applicant has had course work or other professional contact, submit letters of recommendation to the department.

To be admitted to the program with regular status, an applicant must demonstrate the appropriate reading and/or speaking knowledge in one foreign language relevant to the student's doc-

toral study. Applicants without a master's degree or 30 credits of approved course work, including History 803 or its equivalent; significant course work in historiography and content in the major field; and two minor areas of concentration; will be admitted provisionally. The graduate director and/or advisor will advise students regarding the removal of deficiencies and the completion of a specified number of collateral courses before regular admission to the Ph.D. in History is granted. Applicants completing these pre-Ph.D. courses will acquire a graduate academic record equivalent to the course requirements of the Master of Arts in History.

In addition, an international applicant is required to have fulfilled the university's English language proficiency requirement as described in the *Graduate Education* section of this catalog in one of the following three ways:

1. Have a total score of 580 (paper version) or 237 (computer version) or above on the **Test of English as a Foreign Language** with no subscore below 55 (paper version) or 21 (computer version) and have the approval of the English Language Center.
2. Have an average score of 85 or higher on the **Michigan English Language Assessment Battery** with no subscore below 83 and have the approval of the English Language Center.
3. Have an average score of 85 or higher on the **English Language Center Test** with no subscore below 83 and have the approval of the English Language Center.

Applicants for doctoral study should understand that the department can offer no assurance that all of the areas of professional specialization will be available to students at any particular time. It is essential that persons with specific, clearly defined academic interests communicate with the Graduate Director before making firm plans to enroll in the doctoral program.

Guidance Committee

Students entering the doctoral program will be guided by the graduate director in the selection of courses for the first year. By the end of the second semester, students should choose their major professor and their guidance committee. The committee shall consist of at least four members: two represent the student's major field, one of whom shall chair the student's guidance committee and direct the dissertation. In addition, two faculty members, one from each of the student's chosen two minor fields, will serve on the committee.

Requirements for the Doctor of Philosophy Degree in History

The student must:

1. Complete at least 3 credits in the historiography courses specified by the graduate advisor or guidance committee.
2. Complete at least 9 credits in additional 800-900 level courses in a major field of history as specified by the student's guidance committee. The major field should be the field in which the student plans to focus research for the dissertation. The available major fields of history are referenced above.
3. Complete at least 6 credits in each of the student's two minor fields or in one minor field of history and in one minor field in a related discipline.
4. Student must demonstrate knowledge of a second foreign language before they may take the comprehensive examinations. This requirement for students formally admitted to the Ph.D. program can be fulfilled by one of these three options:
 - a. Competency in an additional (second) foreign language.

SOCIAL SCIENCE
Department of History

- b. With approval of the student's guidance committee, the student may substitute certification in humanities computing for the second foreign language.
 - c. With the approval of the student's guidance committee, the student may complete courses in a supporting discipline such as statistics, philosophy, economics, or anthropology in lieu of demonstrating knowledge of a second foreign language. The supporting discipline shall constitute the student's third minor field. A faculty member in the supporting discipline shall be added as a fifth member of the student's guidance committee.
5. Pass the following comprehensive examinations:
- a. A 3-4 hour written examination in the student's major field and a 3-4 hour written examination in each of the student's minor fields. This requirement must be satisfied during one semester of enrollment in the program and should be completed during the fifth semester.
 - b. An oral examination of up to three hours. This requirement must be satisfied after the student has passed the written examinations.
 - c. Pass a final oral examination in defense of the dissertation.

Academic Standards

A student who does not demonstrate a reading knowledge of a foreign language during the first year of enrollment in the program will not be permitted to enroll in any courses, with the exception of courses in a foreign language, until that requirement has been satisfied.

HISTORY-SECONDARY SCHOOL TEACHING

Master of Arts

The Master of Arts degree program in history-secondary school teaching is designed specifically for secondary school teachers and is a terminal degree program.

In addition to meeting the requirements of the university and of the College of Social Science, students must meet the requirements specified below.

Admission

To be admitted to the Master of Arts degree program in history-secondary school teaching on regular status, an applicant must have:

- 1. A bachelor's degree with a major in history or in another field.
- 2. A grade-point average of at least 3.00 in the junior and senior years of the baccalaureate program.
- 3. A minimum of 20 semester credits in history courses with a grade-point average of at least 3.00.
- 4. One year of experience teaching history in a secondary school.

In addition, an international applicant is required to have fulfilled the university's English language proficiency requirement as described in the *Graduate Education* section of this catalog in one of the following three ways:

- 1. Have a total score of 580 or above on the **Test of English as a Foreign Language** with no subscore below 55 and have the approval of the English Language Center.
- 2. Have an average score of 85 or higher on the **Michigan English Language Assessment Battery** with no subscore below 83 and have the approval of the English Language Center.

- 3. Have an average score of 85 or higher on the **English Language Center Test** with no subscore below 83 and have the approval of the English Language Center.

Guidance Committee

Before completing 9 credits in history courses, the student, with the assistance of the Graduate Director and the History Education advisor, must constitute a guidance committee of at least two faculty members in the Department of History who represent different fields of history. Until the student's guidance committee has been established, the student's program of study must be approved by the Graduate Director and the History Education advisor.

Requirements for the Master of Arts Degree in History-Secondary School Teaching

The program is available only under Plan B (without thesis). A total of 30 credits is required for the degree. The student's program of study must be approved by the student's guidance committee. The student must meet the requirements specified below:

	CREDITS
1. Complete at least 15 credits in 800-900 level history courses including:	
HST 803 Seminar in Methodology of Historical Research	3
HST 898 Master's Research	3
One course in historiography relevant to the student's program of study.	
Courses in two of the following three areas that are commonly taught in secondary schools: American civilization, European civilization, and African or Asian or Latin American civilization.	
2. Complete 6 to 9 credits in one or two disciplines related to history.	
3. Pass an oral final certifying examination administered by the student's guidance committee.	

Residence

The student must complete at least 12 credits in courses that are to be counted toward the requirements for the degree on the East Lansing campus of Michigan State University.

DEPARTMENT of HUMAN DEVELOPMENT and FAMILY STUDIES

Amy Bonomi, Chairperson

The Department of Human Development and Family Studies is committed to improving the health and well-being of individuals and families across the lifespan through research and preparation of graduates for research, teaching, and professional practice. Recognizing, understanding and addressing the central role of diversity and interdependence among families and communities in the process of human development are core values of the department.

Areas of study include child development, youth development, lifespan human development, family diversity and couple and family therapy. Knowledge of basic research and the application of research to improving the lives of individuals in the context of the family, the community, and policy are emphasized. Practical experiences in real-world settings are incorporated into all areas of study. The Child Development Laboratory and the Couple and Family Therapy Clinic are part of the department.

At the undergraduate level, the focus is on the application of knowledge about individual development and family processes to

early childhood education, child and youth services in the community, and services for adults. At the graduate level, this focus is widened to include courses and research experiences with the goal of improving the training of early childhood teachers, preparing professionals who will serve youth in a variety of contexts, and training therapists who provide services to families, couples, and individuals. The department graduate programs also prepare scholars who study child development in the context of family processes, diverse families and family problems, and the process and outcome of therapeutic interventions.

UNDERGRADUATE PROGRAMS

CHILD DEVELOPMENT

Bachelor of Arts

The Bachelor of Arts in Child Development degree program combines a basic education in child development and family studies with a broad general education and preparation related to employment in early childhood education settings. Students will choose either a concentration in Elementary Education Teacher Certification, which requires admission to the teacher preparation program, or a concentration in Preschool Teaching in an Early Childhood Setting.

Elementary Education Teacher Certification course work prepares graduates to work in the early grades of primary schools, kindergarten through third grade and to meet the requirements to earn an Elementary Education Teaching Certificate (kindergarten through fifth grade) with an Early Childhood General and Special Education Endorsement.

The Preschool Teaching in an Early Childhood Setting concentration prepares graduates to work in early childhood settings such as Head Start and preschools and in other child-related fields such as policy, health care, or administration. Students in the Preschool Teaching in an Early Childhood Setting concentration will be required to complete an independent study experience such as study abroad, study away, experiential learning, internship, or undergraduate research. The child development major is appropriate for students interested in working with young children, birth through age eight.

Requirements for the Bachelor of Arts Degree in Child Development

1. The University requirements for bachelor's degrees as described in the *Undergraduate Education* section of this catalog; 120 credits, including general elective credits, are required for the Bachelor of Arts degree in Child Development. Students pursuing the Elementary Education Teacher Certification concentration will be required to complete more than 120 credits.
 The University's Tier II writing requirement for the Child Development major is met by completing Human Development and Family Studies 321. This course is referenced in item 3. a. below.
2. The requirements of the College of Social Science for the Bachelor of Arts degree *except* for students pursuing the Elementary Education Teacher Certification concentration.
3. The following requirements for the major:

	CREDITS
a. All of the following courses:	26
CEP 240 Diverse Learners in Multicultural Perspective	3
HDFS 211 Child Growth and Development	3
HDFS 320 Interaction with Children in Groups	3
HDFS 320L Interaction with Children – Laboratory	1
HDFS 321 Curriculum for Children (W)	3
HDFS 321L Curriculum for Children – Laboratory	1
HDFS 322 Infant Development and Program Planning	3
HDFS 421 Assessment of the Young Child	3
HDFS 424 Student Teaching in an Early Childhood Program 6	6
b. One of the following concentrations:	

Elementary Education Teacher Certification
 Completion of an Integrated Teaching Major in Integrated Science, Language Arts, Mathematics, or Social Studies. For addi-

tional information, refer to the statement on **TEACHER CERTIFICATION** in the *Department of Teacher Education* section of this catalog.

Preschool Teaching in an Early Childhood Setting

1. All of the following courses (15 credits):
 - HDFS 145 The Individual, Marriage and the Family 3
 - HDFS 414 Parenting 3
 - HDFS 442 Ethnic Families in America 3
 - HDFS 472 Evaluation of Human Service Programs 3
 - HDFS 473 Administration of Early Childhood Programs 3
2. One of the following courses (1 to 3 credits):
 Students must seek advisor approval prior to enrolling in one of these courses.
 - HDFS 490 Independent Study 1 to 3
 - HDFS 497 Topics in Human Development and Family Studies 1 to 3
 - SSC 490 Special Topics in Social Science 1 to 3

EARLY CARE AND EDUCATION

The Bachelor of Arts in Early Care and Education, is a collaborative, multi-institutional limited enrollment program. This degree focuses on the intellectual, social, emotional, and biological development of children. It includes planning and design of related human services and care/educational settings and preparation related to employment in early childhood education settings. The program provides instruction in parent-child relations, parenting practices, special needs of children, parental and environmental influences on child development, caregiver-child interactions, external support services, and related public policy issues. Designed for active duty military, spouses, retired and Department of Defense employees, rural head start teachers and off-campus students, the program provides flexibility for working professionals who need to maintain employment while advancing their educational opportunity.

The College of Social Science, in collaboration with The Great Plains Interactive Distance Education Alliance (GPIDEA), offers this program by faculty from multiple land-grant universities: Michigan State University, Iowa State University, University of Missouri, University of Nebraska, Oklahoma State University, South Dakota State University, and Texas Tech University.

Students will earn this degree from their home institution while also enrolling for courses at other participating institutions.

In addition to meeting the requirements of the University and of the College of Social Science, students must meet the requirements specified below.

Admission

To be admitted, students must apply via their home institution and plan their course of study under the guidance of their academic advisor. Michigan State University students follow established University admission procedures to the College of Social Science and the Early Care and Education major. Students must have a minimum of 30 credits applicable to the graduation requirements of the admitting institution with an earned minimum grade-point average of 2.5.

Michigan State University students should contact the Department of Human Development and Family Studies for guidance on the completion of this program.

Requirements for the Bachelor of Arts Degree in Early Care and Education

1. The University requirements for the bachelor's degree as described in the *Undergraduate Education* section of this catalog; 120 credits, including general elective credits, are required for the Bachelor of Arts degree in Early Care and Education.
 The University's Tier II writing requirement for the Early Care and Education major is met by completing Human Development and Family Studies 406.
2. The requirements of the College of Social Science.
3. The following requirements for the major:
 - a. All of the following courses which are taught online as part of the Great Plains IDEA Alliance (51 credits):

SOCIAL SCIENCE

Department of Human Development and Family Studies

- Child Development (ages 0-3)
- Child Development (ages 4-8)
- Professional Development in Early Care and Education
- Child Guidance and Classroom Environments
- Health, Safety and Nutrition in Early Care and Education
- Practicum I: Child Observations in Classroom Environments
- Development of Curriculum for Children (ages 0-3)
- Development of Curriculum for Children (ages 4-8)
- Assessment and Observations in Early Care and Education
- Understanding and Adapting for Developmental Differences In Early Care and Education
- Practicum II: Lesson Planning
- Working with Families in Early Care and Education
- Technology and Young Children
- Diversity in the Lives of Young Children and Their Families
- Administration and Supervision in Early Childhood Settings
- Practicum III: Capstone Experience (W) [HDFS 406]

CREDITS

a.	All of the following courses:	46
HDFS 145	The Individual, Marriage, and the Family	3
HDFS 225	Lifespan Human Development in the Family.	3
HDFS 270	Introduction to Human Development and Family Studies	4
HDFS 345	Principles of Family Studies	3
HDFS 414	Parenting	3
HDFS 442	Ethnic Families in America	3
HDFS 444	Interpersonal Relationships in the Family	3
HDFS 445	Human Sexuality	3
HDFS 447	Management of Human Service Programs	3
HDFS 448	Child and Family Policy	3
HDFS 454	Family Financial Management	3
HDFS 472	Evaluation of Human Service Programs	3
HDFS 481	Research and Quantitative Methods in Human Development and Family Studies	3
HDFS 493	Internship	6

Students must have access to a high-quality preschool or head start classroom for their three practicum experiences.

HUMAN DEVELOPMENT AND FAMILY STUDIES

Graduates will be committed to improving the health and well-being of diverse individuals and families across the lifespan through research, teaching, and professional practice. Recognizing, understanding and addressing the central role of diversity and interdependence among families and communities is a core value of graduates. Students gain knowledge of basic research and the application of research to improving the lives of individuals in the context of the family, the community, and policy. Practical experience in real-world settings is incorporated into the degree program. Students are prepared to work in community and governmental agencies and organizations that provide human services within changing societies and serve children, youth, and families. Upon graduation, students may apply for provisional certification as a Family Life Educator and with additional work experience they can earn full certification.

Requirements for the Bachelor of Arts Degree in Human Development and Family Studies

1. The University requirements for the bachelor’s degree as described in the *Undergraduate Education* section of this catalog; 120 credits, including general elective credits, are required for the Bachelor of Arts degree in Human Development and Family Studies.
The University’s Tier II writing requirement for the Human Development and Family Studies major is met by completing Human Development and Family Studies 345. This course is referenced in item 3. below.
2. The requirements of the College of Social Science for the Bachelor of Arts degree.
3. The following requirements for the major.

CREDITS

a.	All of the following courses:	46
HDFS 145	The Individual, Marriage, and the Family	3
HDFS 225	Lifespan Human Development in the Family.	3
HDFS 270	Introduction to Human Development and Family Studies	4
HDFS 345	Principles of Family Studies (W)	3
HDFS 414	Parenting	3
HDFS 442	Ethnic Families in America	3
HDFS 444	Interpersonal Relationships in the Family	3
HDFS 445	Human Sexuality	3
HDFS 447	Management of Human Service Programs	3
HDFS 448	Child and Family Policy	3
HDFS 454	Family Financial Management	3
HDFS 472	Evaluation of Human Service Programs	3
HDFS 481	Research and Quantitative Methods in Human Development and Family Studies	3
HDFS 493	Internship	6

Requirements for the Bachelor of Science Degree in Human Development and Family Studies

1. The University requirements for the bachelor’s degree as described in the *Undergraduate Education* section of this catalog; 120 credits, including general elective credits, are required for the Bachelor of Science degree in Human Development and Family Studies.
The University’s Tier II writing requirement for the Human Development and Family Studies major is met by completing Human Development and Family Studies 345. This course is referenced in item 3. below.
2. The requirements of the College of Social Science for the Bachelor of Science degree.
3. The following requirements for the major.

TEACHER CERTIFICATION OPTIONS

The child development disciplinary major leading to the Bachelor of Arts degree is available for teacher certification.

A early childhood-general and special education disciplinary minor is available for students pursuing elementary teacher certification.

Students who elect the child development disciplinary major or the early childhood-general and special education disciplinary minor must contact the Department of Human Development and Family Studies.

For additional information, refer to the statement on *TEACHER CERTIFICATION* in the *Department of Teacher Education* section of this catalog.

GRADUATE STUDY

The Department of Human Development and Family Studies is concerned with human development and with the interaction of individuals and family members throughout the life cycle as they interact with their environment. The department offers the following degree programs:

Graduate Certificate

- Youth Development Specialist
- Youth Program Management and Evaluation

Master of Arts

- Family Community Services
- Youth Development

Master of Science

- Child Development
- Human Development and Family Studies

Doctor of Philosophy

- Human Development and Family Studies

All graduate programs in the department are designed to develop professional competence, to encourage creative thinking, and to prepare students to perform and utilize research. Each student’s program is developed within the framework of the area of major interest, taking into consideration his or her professional experience, interests, and educational and career goals.

Careers to which advanced degrees may lead include college teaching, research, extension, marriage and family therapy, and administration in early childhood education centers. Graduates also may be employed as family specialists in community and family agencies.

Opportunities are available within the Department of Human Development and Family Studies for graduate students to participate in ongoing interdisciplinary research and in field experiences in school or community settings. The Child Development Laboratories and the Couple and Family Therapy Clinic provide opportunities for applied and research experiences.

Students who are enrolled in Master of Arts, Master of Science, and Doctor of Philosophy degree programs in the Department of

Human Development and Family Studies may elect specializations in Infancy and Early Childhood. For additional information, refer to the statement on *Interdepartmental Graduate Specializations in Infancy and Early Childhood* in the *College of Social Science* section of this catalog.

Master of Arts and Master of Science

In addition to meeting the requirements of the university and of the College of Social Science, students must meet the requirements specified below.

Students with limited undergraduate backgrounds may be required to correct such deficiencies by completing courses which serve as prerequisites to graduate work.

Master of Science Degree in Child Development

This program focuses on the behavioral, psychological, biological and contextual processes that promote positive developmental outcomes in infants and young children. Key contexts of development emphasized in the program include family, early childhood educational settings, and culture. Courses are available in areas such as development across cultures, infant development, language and literacy research and practices, social-emotional development, observational methods for home or classroom, approaches to early education, intervention and prevention programs, and parenting. Laboratory experiences in early childhood education are available in the Child Development Laboratories, and research experiences are available through work with faculty mentors.

Master of Arts Degree in Family Community Services

The Master of Arts in Family Community Services, is a collaborative, multi-institutional program offered totally online. This degree is designed to provide a research-based perspective to understand individual, family, interpersonal and community dynamics across the lifespan. Students will acquire knowledge and skills related to the design, implementation, sustainability, and leadership and management of family and community services programs.

The College of Social Science, in collaboration with The Great Plains Interactive Distance Education Alliance (GPIDEA), offers this program with all course work delivered via the Internet/World Wide Web by faculty from multiple land-grant universities: Michigan State University, Kansas State University, University of Missouri, University of Nebraska-Lincoln, Oklahoma State University, and South Dakota State University.

Students will earn this degree from their home institution while also enrolling for courses at other participating institutions.

In addition to meeting the requirements of the University and of the College of Social Science, students must meet the requirements specified below.

Admission

To be admitted, students must apply via their home institution and plan their course of study under the guidance of their academic advisor. Michigan State University students follow established University admission procedures.

Requirements for the Master of Arts Degree in Family Community Services

The program is available only online and only under Plan B (without thesis). Each student's course of study must be developed and approved in consultation with the academic advisor. The student must complete a total of 36 credits, of which 30 credits is course work required by The Great Plains Interactive Distance Education Alliance (GPIDEA) consortium, distributed as follows:

1. **Core** courses (30 credit hours):
 - Administration and Management of Human Services Programs
 - Crises Across the Lifespan
 - Family Dynamics
 - Family Resource Management
 - Foundations and Principles of Family and Community Services
 - Interpersonal Relationships
 - Lifespan Development
 - Parenting Education
 - Program Design, Evaluation and Implementation
 - Resilience in Families
2. Additional course work (6 credit hours). This enrollment will vary at each institution. At Michigan State University, students will fulfill this requirement by enrolling in course work approved by the student's academic advisor.
3. Pass a final oral examination or evaluation. This will include a formal presentation by the student on a topic determined by the student and the academic advisor.

Michigan State University students should contact the Department of Human Development and Family Studies or consult the Michigan State University *Schedule of Courses* for current course schedule and other information.

Master of Arts Degree in Youth Development

The Master of Arts in Youth Development, is a collaborative, multiinstitutional program offered totally online. This degree is designed to promote an understanding of communities and families and to prepare students to have an impact on the development of youth in their homes, neighborhoods, and society. American youth born since the early 1980s are projected to be the largest, most ethnically diverse generation of adolescents in the history of the United States, and this program is designed to address that demographic shift.

The curriculum is focused on the promotion of positive development of all young people. It is designed for individuals who wish to work in a variety of youth-related professions, including youth-serving organizations and programs such as Boys and Girls Clubs, community recreation specialties, youth programs sponsored by faith-based institutions, correctional professions, or within U.S. Extension Programs.

The College of Social Science, in collaboration with The Great Plains Interactive Distance Education Alliance (GPIDEA), offers this program with all course work delivered via the Internet/World Wide Web by faculty from multiple land-grant universities: Michigan State University, Kansas State University, University of Missouri, North Dakota State University, Texas Tech University, and the University of Nebraska.

Students will earn this degree from their home institution while also enrolling for courses at other participating institutions.

In addition to meeting the requirements of the university and of the College of Social Science, students must meet the requirements specified below.

SOCIAL SCIENCE

Department of Human Development and Family Studies

Admission

To be admitted, students must apply via their home institution and plan their course of study under the guidance of their academic advisor. Michigan State University students follow established university admission procedures.

Requirements for the Master of Arts Degree in Youth Development

The program is available only online and only under Plan B (without thesis). Each student's course of study must be developed and approved in consultation with the academic advisor. Each course is offered at least once every other year. The student must complete a total of 36 credits, of which 28 credits is course work required by The Great Plains Interactive Distance Education Alliance (GPIDEA) consortium, distributed as follows:

1. **Core courses** (28 credits):
 - Administration and Program Management
 - Adolescents and Their Families
 - Community Youth Development
 - Contemporary Youth Issues
 - Foundations of Youth Development
 - Program Design, Evaluation, and Implementation
 - Youth Development
 - Youth in Cultural Contexts
 - Youth Policy
 - Youth Professionals as Consumers of Research
2. Additional course work (8 credit hours).

This enrollment will vary at each institution and may require a master's thesis, project, or practicum. At Michigan State University, students will fulfill this requirement by enrolling in course work approved by the student's academic advisor.
3. Pass a final examination or evaluation.

Michigan State University students should contact the Department of Human Development and Family Studies or consult the Michigan State University *Schedule of Courses* for current course schedule and other information.

Master of Science Degree in Human Development and Family Studies

The Master of Science degree in Human Development and Family Studies is designed to help students gain an understanding of increasingly diverse family units as well as individual family members as they develop across the life course. Depending upon student interest and career goals, focus may be on human development (adolescence, aging), leadership, policy or diversity. Students are prepared to work with and advocate for families, children, youth and adults in a broad range of settings, including extension offices, community agencies, and policy-making contexts. Both a thesis (Plan A) and non-thesis (Plan B) option are offered. Those pursuing Plan A are prepared for doctoral study in a variety of related fields.

Doctor of Philosophy

Doctor of Philosophy Degree in Human Development and Family Studies

Faculty mentors work closely with doctoral students in experiences related to professional development, theory and conceptual model development, and translational research. Each student completes a professional portfolio during the course of the doctoral program in addition to comprehensive exams and the dissertation.

The Doctor of Philosophy Degree in Human Development and Family Studies offers four concentrations from which students may choose. They include:

Child Development: focus on behavioral, psychological, biological and contextual processes that promote positive developmental outcomes in infants and young children.

Family Diversity: focus on families in sociocultural context to include attention to gender, ethnicity, racial socialization, immigration, poverty, disability, sexual orientation and aging.

Lifespan Human Development: focus on developmental processes across the life course in the context of family, community, schools and other environments. Study may focus on one life stage (youth, emerging or older adults) or examine an issue (attachment, chronic illness) across the entire life course.

Couple and Family Therapy: focus on the application of research and theory to individual, group, couple and family therapy. Accredited by the Commission on Accreditation of Marriage and Family Therapy Education (COAMFTE).

In addition to meeting the requirements of the university and of the College of Social Science, students must meet the requirements specified below.

Admission

Admission to the doctoral program in human development and family studies is based on evidence of academic ability, research potential, achievement, and maturity. Admission to the program assumes a background in the behavioral sciences; collateral course work that does not count toward the doctoral degree may be required where background is inadequate. A prospective doctoral student is required to take the general sections of the Graduate Record Examination and include the results with the application.

To be admitted to the doctoral program in human development and family studies with couple and family therapy as the area of concentration, an applicant must have completed a master's degree program with a major in marriage and family therapy or its equivalent. Students who select the couple and family therapy concentration must participate in a personal interview with a selected faculty committee. Students who select the couple and family therapy concentration are admitted to the degree program in fall semester only.

Requirements for the Degree

Students in the doctoral program in human development and family studies who select the couple and family therapy concentration are required to complete a supervised clinical internship. The Couple and Family Therapy Program at Michigan State University has been accredited by the Commission on Accreditation for Marriage and Family Therapy Education of the American Association for Marriage and Family Therapy. The re-accreditation period is effective through January 2013.

The inclusion of a foreign language in the doctoral program is at the discretion of the candidate and the guidance committee.

Graduate Certificate in Youth Program Management and Evaluation

The Youth Program Management and Evaluation Graduate Certificate is designed to assist youth professionals to develop and apply resources for successful implementation and management of youth-serving organizations. The program addresses the need for advanced education based on research and policy for optimal youth outcomes through a strengths-based curriculum.

The online format and course schedule of the certificate program allow flexibility to accommodate both full-time students and

working professionals. The College of Social Science, in collaboration with The Great Plains Interactive Distance Education Alliance (GPIDEA), offers this program with all course work delivered via the World Wide Web at www.gpidea.org.

Admission

To be considered for admission into the Youth Program Management and Evaluation Graduate Certificate applicants must follow established University admission procedures. Students currently pursuing the Master of Arts in Youth Development are not eligible to apply for admission to the Youth Program Management and Evaluation Graduate Certificate. For additional information, refer to the *Admission* section in the *Graduate Education* section of this catalog.

Requirements for the Youth Program Management and Evaluation Graduate Certificate

The program is available totally online. Each course is offered at least once every other year. The student must complete 13 credits of course work in collaboration with The Great Plains Interactive Distance Education Alliance (GPIDEA).

1. The following course (1 credit):
Foundations of Youth Development
2. Four of the following courses (12 credits):
Administration and Program Management
Contemporary Youth Issues
Program Design, Evaluation and Implementation
Youth Policy
Youth Professionals as Consumers of Research

Graduate Certificate in Youth Development Specialist

The Youth Development Specialist Graduate Certificate is designed to assist youth professionals to train individuals in the second decade of life with the skills necessary for a successful transition into adulthood. The program addresses the need for advanced education in youth issues and does so through a strengths-based curriculum.

The online format and course schedule of the certificate program allows flexibility to accommodate both full-time students and working professionals. The College of Social Science, in collaboration with The Great Plains Interactive Distance Education Alliance (GPIDEA), offers this program with all course work delivered via the World Wide Web at www.gpidea.org.

Admission

To be considered for admission into the Youth Development Specialist Graduate Certificate applicants must follow established University admission procedures. Students currently pursuing the Master of Arts in Youth Development are not eligible to apply for admission to the Youth Development Specialist Graduate Certificate. For additional information, refer to the *Admission* section in the *Graduate Education* section of this catalog.

Requirements for the Youth Development Specialist Graduate Certificate

The program is available totally online. Each course is offered at least once every other year. The student must complete 13 credits of course work in collaboration with The Great Plains Interactive Distance Education Alliance (GPIDEA).

1. The following course (1 credit):
Foundations of Youth Development

2. Four of the following courses (12 credits):
Adolescents and Their Families
Community Youth Development
Contemporary Youth Issues
Youth Development
Youth in Cultural Contexts
Youth Policy

SCHOOL of HUMAN RESOURCES and LABOR RELATIONS

William N. Cooke, Director

Through its research, education, and development programs, the School of Human Resources and Labor Relations advances knowledge and understanding of human resources and labor-relations within a global context. The school's Master of Human Resources and Labor Relations is recognized as one of the leading programs of its kind, with approximately 2,800 alumni who hold top executive positions in human resources and labor relations in both the private and public sectors. The School also offers a Minor in Leadership of Organizations.

UNDERGRADUATE PROGRAM

MINOR IN LEADERSHIP OF ORGANIZATIONS

The Minor in Leadership of Organizations provides interdisciplinary study of the leadership of organizations, preparing students to critically assess the effectiveness of leaders in a wide range of organizations including business, government, and non-profit. The minor also prepares students to be more effective leaders in their careers and as citizens.

The minor is available as an elective to students who are enrolled in bachelor's degree programs at Michigan State University. With the approval of the department and college that administer the student's degree program, the courses that are used to satisfy the minor may also be used to satisfy the requirements for the bachelor's degree.

Students who plan to complete the requirements of the minor should consult an adviser in the School of Human Resources and Labor Relations.

Requirements for the Minor in Leadership of Organizations

Complete a minimum of 15 credits from the following:

	CREDITS
1. The following core course (3 credits): HRLR 211 Introduction to Organizational Leadership	3
2. One of the following courses (3 credits): ANP 321 Anthropology of Social Movements ANP 475 Organizational Anthropology HST 213 U.S. Business and Economic History PLS 313 American Public Policy PSY 235 Social Psychology PSY 255 Industrial and Organizational Psychology SOC 481 Social Movements and Collective Identities	3 3 3 3 3 3 3
3. Two of the following courses (6 to 8 credits): COM 240 Introduction to Organizational Communication CSUS 429 Program Evaluation for Community Sustainability PHL 345 Business Ethics TE 250 Human Diversity, Power, and Opportunity in Social Institutions WRA 491 Special Topics	4 3 4 3 1 to 4

SOCIAL SCIENCE
School of Human Resources and Labor Relations

Students who choose WRA 491 must obtain prior approval from the academic advisor to ensure content is specific to Leadership of Organizations.

- 4. The following course (3 credits):
 HRLR 311 Applied Organizational Leadership 3

Research and Program Services

RESEARCH PROGRAM. The general focus of faculty research and scholarship covers a wide breadth of human resource and labor and employment relations issues. Spanning local to global inquiries, analyses range from micro-level individual and organizational analyses to macro-level organizational and policy analyses. These inquiries and analyses take into account the broader environmental contexts of organizations, multiple stakeholders and actors, and multi-level behaviors and decision-making. As a multidisciplinary field of study, faculty research draws on various theoretical foundations of other disciplines such as economics, psychology, sociology, political science, and law and employs the full range of scientific methodologies, statistical methods, and research designs.

HUMAN RESOURCES EXECUTIVE EDUCATION AND DEVELOPMENT. The school offers non-credit programs focusing on strategy, content expertise, and leadership – with the purpose of effectively aligning human resource policies and practices with business and operational plans to yield competitive advantage. Open enrollment programs provide training and leadership development in human resource management, contemporary collective bargaining and negotiation, and workers compensation. The school also offers customized curriculum tailored to meet the specific needs of organizations, as well as executive coaching designed to meet the personal development interests of individuals.

LABOR EDUCATION AND DEVELOPMENT. The school offers non-credit programming aimed at improving the employment opportunities and work lives of the citizens of Michigan. This programming includes union leader training and development, joint union-management training in high performance work systems, and economic development focusing on local business and community solutions. The school also provides consultation on union and organizational strategies, as well as facilitation for contract negotiations and joint union-management decision-making.

GRADUATE STUDY

HUMAN RESOURCES and LABOR RELATIONS

The Master of Human Resources and Labor Relations is the school's signature graduate degree, offered on a full-time basis in East Lansing, Michigan. With a diverse and highly qualified student body, the master's program is universally regarded as one of the premier professional programs of its kind in the world. Preparing future leaders for professional careers, students receive a comprehensive, contemporary foundation in human resources and labor relations, gain a broad global perspective, and learn to apply best practices, lead organizational change, and act strategically as business leaders.

The curriculum offers a wide range of courses across required core knowledge areas including: human resource management, labor-management relations, organizational change, business acumen, international human resources and employment relations, workplace law, economics of human resources, and quantitative methods for human resource analyses.

In addition to classroom instruction, nearly all students participate in paid summer internships with companies between their first and second year in the program. Through these summer internships, students receive invaluable mentoring and on-the-job

learning, working as members of specific project teams and undertaking individual assignments.

In addition to meeting the requirements of the university and of the College of Social Science, students must meet the requirements specified below.

Admission

To be considered for admission to the master's degree program, a student must have a bachelor's degree and a cumulative grade–point average of 3.00 or higher in the junior and senior years. Applicants must have satisfactory scores on the Graduate Record Examination (GRE) General Test or on the Graduate Management Admission Test (GMAT). Applicants with five or more years of relevant work experience with successful professional records may be able to substitute that work experience for GRE or GMAT test scores. Applicants must complete one course in microeconomic principles, one course in statistics, and one course in behavioral sciences with a minimum grade of 3.0 in each course. In addition, applicants will be judged on the quality of their statement of objectives and three letters of reference.

Requirements for the Master of Human Resources and Labor Relations Degree in Human Resources and Labor Relations

The program is available under both Plan A (with thesis) and Plan B (without thesis). The student must complete 36 credits with a grade–point average of at least 3.00.

	CREDITS
1. All of the following courses:	15
HRLR 809 Economics of Human Resources	3
HRLR 813 Organizational Behavior for Human Resources and Labor Relations	3
HRLR 820 Human Resource Practices and Decisions	3
HRLR 832 Quantitative Methods for Human Resources Analyses	3
HRLR 858 Collective Bargaining	3
2. One course from each of the following core knowledge areas (12 credits):	
Human Resource Management	
HRLR 821 Talent Acquisition and Deployment	3
HRLR 822 Training and Development	3
HRLR 825 Compensation	3
HRLR 828 Human Resource Information Systems	3
HRLR 829 Foundations of Employee Benefits	3
International Human Resources and Labor Relations	
HRLR 854 Comparative Employment Relations	3
HRLR 855 International Human Resources	3
HRLR 859 Study Abroad in Human Resources and Labor Relations	3
Workplace Law	
HRLR 863 Labor Law	3
HRLR 868 Employment Law	3
Strategy and Firm Performance	
HRLR 871 Human Resource and Firm Performance	3
HRLR 872 Human Resources Strategy	3
3. Nine additional credits in courses approved by the student's academic advisor or guidance committee. Students pursuing Plan A (with thesis) must complete 4 credits of HRLR 899 Master's Thesis Research as part of this elective requirement.	

HUMAN RESOURCES and LABOR RELATIONS—LAW

Human Resources and Labor Relations students who are admitted to the dual MHRL/JD program with the Michigan State University - College of Law may transfer a maximum of 9 credits from the Michigan State University/College of Law program to the MHRL program. These credits may be used only to satisfy elective credits. Only Plan B (without thesis) is available for election under the dual degree program.

Doctor of Philosophy

The School of Human Resources and Labor Relations offers a Doctor of Philosophy degree in Human Resources and Labor Relations to prepare students for a career as a scholar in human resources or labor and employment relations in a tenure-track po-

sition at a research-oriented university. Students study employment phenomena from the perspective of multiple actors including employees, employers, unions, the government, and society at-large. The program integrates tools from diverse disciplines including economics, management, and psychology.

Admission

Admission to this doctoral program is based on an evaluation of the student's academic record, the Graduate Record Examination (GRE) general test or the Graduate Management Admission Test (GMAT) scores, letters of recommendation, written statements, and an application form. For further details, visit our Web site at www.hrlr.msu.edu.

Requirements for the Doctor of Philosophy Degree in Human Resources and Labor Relations

Students will complete course work and seminars within the School of Human Resources and Labor Relations, and within other departments in the university. Students will be required to pass comprehensive examinations based on their course work, to demonstrate research competency by writing an empirical research paper, and to defend their dissertation successfully. Students must:

	CREDITS
1. Complete the following courses (15 credits):	
HRLR 991A Theoretical Perspectives in Human Resource Management	3
HRLR 991B Theoretical Perspectives in Labor and Employment Relations	3
HRLR 992A Research Perspectives in Human Resource Management	3
HRLR 992B Research Perspectives in Labor and Employment Relations	3
HRLR 993 Research Methods for Human Resource and Labor Relations	3
2. Complete three doctoral level research methods courses within other departments approved by the student's doctoral committee.	
3. Complete four doctoral level courses in other departments approved by the student's doctoral committee.	
4. Complete 24 credits of HRLR 999 Doctoral Dissertation Research.	

SCHOOL of PLANNING, DESIGN and CONSTRUCTION

Scott G. Witter, Director

The School of Planning, Design and Construction is administered jointly by the College of Agriculture and Natural Resources and the College of Social Science.

UNDERGRADUATE PROGRAMS

The school offers a Bachelor of Science degree program in urban and regional planning through the College of Social Science. That program is described below.

The school also offers Bachelor of Science degree programs in construction management, and interior design and a Bachelor of Landscape Architecture degree program through the College of Agriculture and Natural Resources. The school also offers a dual degree in the Bachelor of Landscape Architecture and Master of Arts in Environmental Design. For information about those programs, refer to the statement on the *School of Planning, Design and Construction* in the *College of Agriculture and Natural Resources* section of this catalog.

URBAN AND REGIONAL PLANNING

The undergraduate program in urban and regional planning provides students with a basic understanding of the history of urbanism, the theory and principles of urban design, and the relevant legal and administrative procedures. Students study the techniques of survey and research used in the analysis of the structure and growth of urban areas. They are involved in written and graphic communication. They recognize the contributions made by other disciplines concerned with the study of urban development. By developing systematic programs for the orderly and unified arrangement of urban physical structures, students focus their accumulated knowledge and skills on specific urban problems. The undergraduate program, which has been accredited by the Planning Accreditation Board, is designed to prepare majors to assume the responsibilities encountered in entry level professional planning practice.

Admission as a Junior

The number of students who can be admitted as juniors to the urban and regional planning major is limited. Applications are accepted and reviewed only during the spring semester of each year.

To be considered for admission as a junior, a student must have:

- submitted a completed application form by the deadline specified by the school.
- completed Urban Planning 201 with a minimum grade of 2.0, which is a prerequisite for the 300–400 level courses required for the bachelor's degree.
- completed the following prerequisites (13 credits) with a minimum grade of 2.0 in each course:

CSE 101	Computing Concepts and Competencies	3
EC 201	Introduction to Microeconomics	3
PLS 100	Introduction to American National Government ..	3
STT 201	Statistical Methods	4

The completion of Statistics and Probability 201 may also be used to satisfy the University mathematics requirement.

Admission decisions are determined by the faculty on the basis of the relative qualifications of applicants and the enrollment capacity in the program. Admission is competitive. Factors related to the program's accreditation may also be considered in the selection process.

A student who has been admitted to the urban and regional planning major for a given semester, and decides not to enroll for that semester, would need to reapply for admission to the program. There is no guarantee of admission to the program.

All persons who are interested in applying for admission as juniors to the urban and regional planning major must request an application form and detailed information regarding admission requirements and procedures from the School of Planning, Design and Construction, Room 101 Human Ecology.

Students who are enrolled in colleges and universities other than Michigan State University should contact Michigan State University's Office of Admissions and the School of Planning, Design and Construction regarding admission to the Bachelor of Science degree program in Urban and Regional Planning as transfer students.

Requirements for the Bachelor of Science Degree in Urban and Regional Planning

- The University requirements for bachelor's degrees as described in the *Undergraduate Education* section of this catalog; 120 credits, including general elective credits, are required for the Bachelor of Science degree in Urban and Regional Planning.

The University's Tier II writing requirement for the Urban and Regional Planning major is met by completing Urban Planning 365. That course is referenced in item 3. a. below.
- The College of Social Science requirements for the Bachelor of Science degree.

SOCIAL SCIENCE
School of Planning, Design and Construction

3. The following requirements for the major:
- | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| | CREDITS |
| a. All of the following courses with a grade of 2.0 in each course: . . . | 30 |
| UP 201 Introduction to Urban and Regional Planning | 4 |
| UP 314 Methods for Investigation of Urban Systems | 4 |
| UP 353 Land Use Planning | 4 |
| UP 365 Planning Law and Ethics (W) | 4 |
| UP 424 Geographic Information Systems and Design Tools for Planning | 3 |
| UP 433 Introduction to Environmental Planning | 4 |
| UP 454 Local Economic Planning | 3 |
| UP 494 Planning Practicum | 4 |
| b. Cognate Areas (21 credits): A critical component for completion of the major is the design of a professional cognate. Students must meet with the program advisor to identify a cognate that complements their core planning courses. All selected courses must be at or above the 300-level. | |

2. Complete one of the following courses (3 credits):
- | | |
|-----------------------------------------------|---|
| UP 890 Independent Study | 3 |
| UP 893 Internship in Urban Planning | 3 |
3. Complete one additional 3 credit course at the 400-level or 800-level as approved by the student's academic advisor.
4. Complete a minimum of 12 credits in a concentration related to international planning studies chosen from the following fields: economic development, environmental protection, international planning, or real estate. The concentration course work must be approved by the student's academic advisor.
5. Successfully complete a final examination.

GRADUATE STUDY

The School of Planning, Design and Construction is administered jointly by the College of Agriculture and Natural Resources and the College of Social Science. The school offers a Master of Urban and Regional Planning degree program with a major in urban and regional planning, and a Master of International Planning Studies degree program with a major in international planning studies through the College of Social Science. Those programs are described below. The school also offers a Master of Arts degree program in Environmental Design; a Master of Science degree program in Construction Management, and a Doctor of Philosophy degree program in Planning, Design and Construction through the College of Agriculture and Natural Resources. For information about those programs, refer to the statement on the School of Planning, Design and Construction in the *College of Agriculture and Natural Resources* section of this catalog.

INTERNATIONAL PLANNING STUDIES

The Master of International Planning Studies (MIPS) is a one-year (2 semesters and one summer) program that is designed for practitioners currently employed in urban and regional planning or related fields who desire additional knowledge in the field of community and regional development. Prospective students must have direct experience in the international aspects of planning or related fields that directly relate to their proposed area of concentration.

Admission

Applications for admission must hold an advanced degree or have significant experience in international planning, and seek knowledge about urban and regional conditions and related areas such as real estate, economic development, environmental protection and international planning. Applicants must demonstrate that the degree will strengthen their career credentials and make them more competitive in the applicant's chosen international planning profession. Prospective students are assumed to have a basic knowledge of planning concepts.

Requirements for the Master of International Planning Studies Degree

The program is available under Plan B (without thesis) only. The student must complete at least 30 credits as specified below.

- | | |
|---------------------------------------------------------------------|----------------|
| The student must: | CREDITS |
| 1. Complete the following core courses (12 credits): | |
| UP 801 Concepts and Issues in Planning and Development. | 4 |
| UP 844 Decision Theory for Urban Planning and Development | 4 |
| UP 894 Planning Practicum | 4 |

URBAN AND REGIONAL PLANNING

Master in Urban and Regional Planning

The graduate program leading to a degree of Master in Urban and Regional Planning (MURP) is committed to preparing students for professional planning careers in both the private and public sectors and seeks to develop both general planning knowledge and specific skills for practice. Current faculty research and teaching expertise covers a wide range of planning subjects including urban design; land use planning; land use law; housing; community, economic and real estate development; research methods; international development; transportation; environmental planning; and public policy. The MURP degree is a nationally accredited degree and admits students with a variety of academic backgrounds. Ideal students are those with strong intellectual ability; good written and verbal communication skills; basic statistical methods and have demonstrated a proven potential for leadership in the field of urban and regional planning.

A student entering the graduate program in urban and regional planning is expected to concentrate, under faculty guidance, on studies that provide an optimum learning experience in applying the various principles, theories, techniques, and design skills of planning to specific field problems. Unlike undergraduates, whose studies are divided between liberal education and technical studies, the graduate student is immersed in significant planning studies and research. The graduate program is designed to provide professional competence. After graduation, the student should be capable of assuming responsibilities on an intermediate level of a professional planning operation. The master's program in Urban and Regional Planning has been accredited by the American Planning Association.

In addition to meeting the requirements of the university and of the College of Social Science, students must meet the requirements specified below.

Admission

To be admitted to the master's degree program, the applicant must have a bachelor's degree from a recognized institution; a cumulative undergraduate grade-point average of 3.0; a grade-point average below 3.0 may be supplemented with a Graduate Record Examination (GRE) score of 1000 in verbal and quantitative, and an analytical writing score of 3.5. Students who are required to take the Test of English as a Foreign Language (TOEFL) must submit scores.

Requirements for the Master in Urban and Regional Planning Degree with a Major in Urban and Regional Planning

The program is available under both Plan A (with thesis) and Plan B (without thesis). The student must complete at least 43 credits, at least 24 of which must be in courses numbered in the 800 and 900 series, and meet the requirements specified below:

- | | |
|-----------------------------------------------------|----------------|
| | CREDITS |
| Requirements for Both Plan A and Plan B: | 28 |
| 1. <i>Urban planning core courses</i> (28 credits): | |

UP	801	Concepts and Issues in Planning and Development	4
UP	814	Applied Research Methods for Planning and Development	4
UP	823	Urban Land Management and the Environment	3
UP	824	Geographic Information Systems and Design Tools for Planning	3
UP	844	Planning Theory and Ethics	3
UP	854	Economics of Planning and Development	4
UP	865	Planning and Development Law	3
UP	894	Planning Practicum	4
2. Complete 9 credits of approved elective courses chosen from a list of electives in consultation with the student's academic advisor . At least one 3-credit Urban Planning Special Topics course must be taken.			
Additional Requirements for Plan A:			6
1. The following course:			
UP	899	Master's Thesis Research	6
Additional Requirements for Plan B:			6
1. Six additional credits in two courses approved by the student's academic advisor.			
2. Pass a final comprehensive examination.			

Academic Standards

Academic standards for graduation require that each student maintain an average of 3.00, or better, in all course work, including study undertaken in collateral courses; however, the accumulation of grades below 3.0 in more than two courses of 3 or more credits each removes the student from the degree program.

Transfer Credits

A maximum of 10 transfer credits at the 400 or 800-level may be accepted toward the Master in Urban and Regional Planning degree.

For Law College students who have been admitted to the dual J.D.-Master in Urban and Regional Planning program with Michigan State University - College of Law, a maximum of 9 credits from Michigan State University - College of Law may be transferred to the Master in Urban and Regional Planning program with a major in urban and regional planning. A grade of 2.0 in a Law course will transfer to MSU as a passing grade. Students will be assessed at the Law College tuition rate with a graduate assistantship covering only the MSU cost of in-state tuition. Transfer courses must be approved by the Director of the Urban and Regional Planning program. Credits taken prior to admission at Michigan State University – College of Law will not be accepted for transfer.

Time Limit

The time limit for completing the degree is six years from the first semester of enrollment in the program.

DEPARTMENT of POLITICAL SCIENCE

Charles Ostrom, Chairperson

As a science, political science is concerned with theories, research methods, and facts as they relate to understanding political processes and phenomena. In particular, political science studies the distribution of power in groups, parties, institutions, governments, and international organizations. As a field of study, political science asks who has power, how did they get it, and why the exercise of power benefits some more than others. On both the American and international stages, political science prepares students to confront vital issues, raise critical perspectives, and explore new methodologies in the study of the fundamental concepts of power and change.

UNDERGRADUATE PROGRAMS

The undergraduate majors in political science are designed to provide students with a broad education in political and other social sciences with the analytical skills essential in many professions. The wide range of career opportunities open to political science graduates includes administrative positions in local, state, and federal government, or in public and private agencies; work with citizen's action groups and voluntary organizations; employment in the foreign service and various governmental and private international agencies; and careers as teachers and policy analysts. Because additional training beyond the bachelor's degree is necessary for some careers, many students in political science plan to attend law or graduate school. Qualified undergraduate political science majors who want to pursue professional careers in policy analysis, program management or policy advocacy, can complete both their bachelor's and master's degrees in a total of five years through the Linked Bachelor's-Master's Degree in Public Policy.

Students in the Department of Political Science may select one of the following majors:

1. Political Science (General)
2. Political Science—Prelaw
3. Public Policy
4. World Politics

POLITICAL SCIENCE (GENERAL)

Requirements for the Bachelor of Arts Degree in Political Science (General)

1. The University requirements for bachelor's degrees as described in the *Undergraduate Education* section of this catalog; 120 credits, including general elective credits, are required for the Bachelor of Arts degree in Political Science (General).
The University's Tier II writing requirement for the Political Science (General) major is met by completing one of the following courses: Political Science 421 or 422. Those courses are referenced in item 3. a. (4) below.
2. The requirements of the College of Social Science for the Bachelor of Arts degree.
3. The following requirements for the major:

	CREDITS
a. The following courses in the Department of Political Science: . . .	37
(1) Two of the following courses (6 credits):	
PLS 100 Introduction to American Politics	3
PLS 140 Introduction to Comparative Politics	3
PLS 160 Introduction to International Relations	3
PLS 170 Introduction to Political Philosophy	3
(2) All of the following courses (12 credits):	
PLS 200 Introduction to Political Science	4
PLS 201 Introduction to Methods of Political Analysis	4
PLS 392 Special Topics in Political Science	4
(3) At least five additional political science courses at the 300–400 level to total at least 15 credits. Only <i>one</i> of the following courses may be counted toward this requirement:	
PLS 494 Field Experience in Political Science	
or	
PLS 495 Independent Study	
(4) One of the following courses (4 credits):	
PLS 421 Moot Court and Legal Research in Federal Law (W)	4
PLS 422 Seminar in Political Science (W)	4
NOTE: Of the courses taken to satisfy the requirements for 3.a. (1) and 3. a. (3), at least two courses must be in American politics (PLS 100 and PLS 301-339), at least two courses must be in comparative/international politics (PLS 140, PLS 160, PLS 342-359, and PLS 361-369), and at least two courses must be in political philosophy (PLS 170 and PLS 370-379). Students should consult with their academic advisor with questions concerning this requirement.	

POLITICAL SCIENCE—PRELAW

The prelaw major is designed to introduce students to the study of law and the judicial process and at the same time to provide an orientation to the law which is more general than that of most law schools. Students who elect this program may plan careers in (1)

SOCIAL SCIENCE
Department of Political Science

government and large businesses, (2) law firms, (3) individual or partnership practice of civil law, (4) trial practice, including criminal law, and (5) teaching. Since very few law schools provide information about the political, economic, societal and psychological environment in which the law exists, this background must generally be acquired prior to or after law school. The prelaw major is intended to give students the analytical skills and substantive background in those courses which will most likely contribute to their development.

Requirements for the Bachelor of Arts Degree in Political Science—Prelaw

- The University requirements for bachelor's degrees as described in the *Undergraduate Education* section of this catalog; 120 credits, including general elective credits, are required for the Bachelor of Arts degree in Political Science—Prelaw.
 The University's Tier II writing requirement for the Political Science—Prelaw major is met by completing one of the following courses: Political Science 421 or 422. Those courses are referenced in item 3.a.(5) below.
- The requirements of the College of Social Science for the Bachelor of Arts degree.
- The following requirements for the major:

CREDITS

- The following courses in the Department of Political Science: 37
 - All of the following courses (15 credits):
 - PLS 100 Introduction to American Politics 3
 - PLS 200 Introduction to Political Science 4
 - PLS 201 Introduction to Methods of Political Analysis 4
 - PLS 392 Special Topics in Political Science 4
 - One of the following courses (3 credits):
 - PLS 140 Introduction to Comparative Politics 3
 - PLS 160 Introduction to International Relations 3
 - PLS 170 Introduction to Political Philosophy 3
 - One of the following courses (3 credits):
 - PLS 320 Judicial Politics 3
 - PLS 321 Constitutional Law 3
 - At least four additional political science courses at the 300–400 level to total at least 12 credits. Only one of the following courses may be counted toward this requirement:
 - PLS 494 Field Experience in Political Science
 - or
 - PLS 495 Independent Study
 - One of the following courses (4 credits):
 - PLS 421 Moot Court and Legal Research in Federal Law (W) 4
 - PLS 422 Seminar in Political Science (W) 4

NOTE: Of the courses taken to satisfy the requirements for 3. a. (2) and 3. a. (4), at least two courses must be in comparative/international politics (PLS 140, PLS 160, PLS 342-359, and PLS 361-369), and at least two courses must be in political philosophy (PLS 170 and PLS 370-379). One of the comparative/international politics courses may be a course from an approved list of courses, offered outside the Department of Political Science. The approved list of comparative/international politics courses is available in the Department of Political Science. Students should consult with their academic advisor with questions concerning this requirement.

PUBLIC POLICY

The Public Policy major is designed to prepare students for careers in public service, advocacy, and analysis. It aims at a broad understanding of the goals and problems of public policy, the political process that leads to policy development, and the implementation and evaluation of public policy. The major is valuable preparation for those who intend to engage in research for public agencies, non-profits, or voluntary associations interested in the problems of government. A master's degree program concentrating in public policy is also available for advanced work in preparation for an executive career in these fields.

Requirements for the Bachelor of Arts Degree in Public Policy

- The University requirements for bachelor's degrees as described in the *Undergraduate Education* section of this catalog; 120 credits, including general elective credits, are required for the Bachelor of Arts degree in Public Policy.

- The University's Tier II writing requirement for the Public Policy major is met by completing Political Science 422. That course is referenced in item 3. below.
- The requirements of the College of Social Science for the Bachelor of Arts degree.
- The following requirements for the major:

CREDITS

- All of the following courses in the Department of Political Science: 37
 - All of the following courses (18 credits):
 - PLS 100 Introduction to American Politics 3
 - PLS 200 Introduction to Political Science 4
 - PLS 201 Introduction to Methods of Political Analysis 4
 - PLS 392 Special Topics in Political Science 4
 - PLS 494 Field Experience in Political Science 3
 - One of the following courses (3 credits):
 - PLS 310 Public Administration and Policy Making 3
 - PLS 313 American Public Policy 3
 - Three of the following courses (9 credits):
 - PLS 301 American State Government 3
 - PLS 302 Urban Politics 3
 - PLS 310 Public Administration and Policy Making 3
 - PLS 313 American Public Policy 3
 - PLS 324 Congress 3
 - PLS 325 The Presidency 3
 - PLS 331 Political Parties and Interest Groups 3
 - PLS 342 Comparative Political Economy 3
 - PLS 362 American Foreign Policy and National Security 3
 - PLS 363 International and Domestic Political Conflict 3
 - PLS 364 Politics of the United Nations and International Organizations 3
 - One additional political science course at the 300-400 level approved by the student's academic advisor (3 credits).
 - The following course (4 credits):
 - PLS 422 Seminar in Political Science (W) 4

WORLD POLITICS

The Bachelor of Arts degree in World Politics is designed to educate students about governments and political systems of many different nations and the interactions among them. It will prepare students for careers in international affairs in the public, private, and non-profit spheres. The major allows students to study the regions of the world that most interest them but also provides broad coverage of international relations and comparative politics.

Requirements for the Bachelor of Arts Degree in World Politics

- The University requirements for bachelor's degrees as described in the *Undergraduate Education* section of this catalog; 120 credits, including general elective credits, are required for the Bachelor of Arts degree in World Politics.
 The University's Tier II writing requirement for the World Politics major is met by completing Political Science 422. That course is referenced in item 3. below.
- The requirements of the College of Social Science for the Bachelor of Arts degree.
- The following requirements for the major:

CREDITS

- All of the following courses in the Department of Political Science (37 credits):
 - All of the following courses (18 credits):
 - PLS 140 Introduction to Comparative Politics 3
 - PLS 160 Introduction to International Relations 3
 - PLS 200 Introduction to Political Science 4
 - PLS 201 Introduction to Methods of Political Analysis 4
 - PLS 392 Special Topics in Political Science 4
 - Five of the following courses (15 credits):
 - PLS 342 Comparative Political Economy 3
 - PLS 344 Politics of Developing Areas 3
 - PLS 345 Religion and World Politics 3
 - PLS 346 Middle East Politics 3
 - PLS 347 Democratic Regimes 3
 - PLS 351 African Politics 3
 - PLS 352 Latin American Politics 3
 - PLS 354 Politics of Asia 3
 - PLS 356 Politics of Europe and the European Union 3
 - PLS 357 Politics of English Speaking Democracies 3
 - PLS 358 Politics of the U.S.S.R. and Its Successor States 3
 - PLS 362 American Foreign Policy and National Security 3
 - PLS 363 International and Domestic Political Conflict 3
 - PLS 364 Politics of the United Nations and International Organizations 3
 - The following course (4 credits):
 - PLS 422 Seminar in Political Science (W) 4

TEACHER CERTIFICATION OPTIONS

A political science disciplinary minor is available for teacher certification and is available only to students pursuing a major in Comparative Cultures and Politics, International Relations, Political Theory and Constitutional Democracy, Social Relations and Policy, Interdisciplinary Studies in Social Science, Interdisciplinary Studies in Social Science: Social Science Education, or History with a teacher certification option.

Students who elect the political science disciplinary minor must contact the Department of Political Science.

For additional information, refer to the statement on TEACHER CERTIFICATION in the *Department of Teacher Education* section of this catalog.

LINKED BACHELOR'S-MASTER'S DEGREE IN PUBLIC POLICY

Bachelor of Arts or Bachelor of Science Degree in Economics Master of Public Policy Degree in Public Policy

The department welcomes applications from Michigan State University Economics undergraduate students during the fall semester of their junior year in order to begin the program during the fall semester of their senior year. Admission to the program requires a minimum undergraduate grade-point average of 3.50 and an approved program of study for the Master of Public Policy degree in Public Policy at the time of admission. Admission to the Linked Bachelor's-Master's Program allows the application of up to 9 credits toward the master's program for qualifying 400-level and above course work taken at the undergraduate level at Michigan State University or an external accredited institution. The number of approved credits, not to exceed 9, are applied toward the credit requirement of the master's degree. Credits applied to the Linked Bachelor's-Master's Program are not eligible to be applied to any other graduate degree program.

LINKED BACHELOR'S-MASTER'S DEGREE IN PUBLIC POLICY

Bachelor of Arts Degree in Political Science (General) Master of Public Policy Degree in Public Policy

The department welcomes applications from Michigan State University Political Science (General) undergraduate students during the fall semester of their junior year in order to begin the program during the fall semester of their senior year. Admission to the program requires a minimum undergraduate grade-point average of 3.50 and an approved program of study for the Master of Public Policy degree in Public Policy at the time of admission. Admission to the Linked Bachelor's-Master's Program allows the application of up to 9 credits toward the master's program for qualifying 400-level and above course work taken at the undergraduate level at Michigan State University or an external accredited institution. The number of approved credits, not to exceed 9, are applied toward the credit requirement of the master's degree. Credits applied to the Linked Bachelor's-Master's Program are not eligible to be applied to any other graduate degree program.

LINKED BACHELOR'S-MASTER'S DEGREE IN PUBLIC POLICY

Bachelor of Arts Degree in Political Science-Prelaw Master of Public Policy Degree in Public Policy

The department welcomes applications from Michigan State University Political Science-Prelaw undergraduate students during the fall semester of their junior year in order to begin the program during the fall semester of their senior year. Admission to the program requires a minimum undergraduate grade-point average of 3.50 and an approved program of study for the Master of Public Policy degree in Public Policy at the time of admission. Admission to the Linked Bachelor's-Master's Program allows the application of up to 9 credits toward the master's program for qualifying 400-level and above course work taken at the undergraduate level at Michigan State University or an external accredited institution. The number of approved credits, not to exceed 9, are applied toward the credit requirement of the master's degree. Credits applied to the Linked Bachelor's-Master's Program are not eligible to be applied to any other graduate degree program.

LINKED BACHELOR'S-MASTER'S DEGREE IN PUBLIC POLICY

Bachelor of Arts Degree in Public Policy Master of Public Policy Degree in Public Policy

The department welcomes applications from Michigan State University Public Policy undergraduate students during the fall semester of their junior year in order to begin the program during the fall semester of their senior year. Admission to the program requires a minimum undergraduate grade-point average of 3.50 and an approved program of study for the Master of Public Policy degree in Public Policy at the time of admission. Admission to the Linked Bachelor's-Master's Program allows the application of up to 9 credits toward the master's program for qualifying 400-level and above course work taken at the undergraduate level at Michigan State University or an external accredited institution. The number of approved credits, not to exceed 9, are applied toward the credit requirement of the master's degree. Credits applied to the Linked Bachelor's-Master's Program are not eligible to be applied to any other graduate degree program.

LINKED BACHELOR'S-MASTER'S DEGREE IN PUBLIC POLICY

Bachelor of Arts Degree in World Politics Master of Public Policy Degree in Public Policy

The department welcomes applications from Michigan State University Public Policy undergraduate students during the fall semester of their junior year in order to begin the program during the fall semester of their senior year. Admission to the program requires a minimum undergraduate grade-point average of 3.50 and an approved program of study for the Master of Public Policy degree in Public Policy at the time of admission. Admission to the Linked Bachelor's-Master's Program allows the application of up to 9 credits toward the master's program for qualifying 400-level and above course work taken at the undergraduate level at Michigan State University or an external accredited institution. The number of approved credits, not to exceed 9, are applied toward the credit requirement of the master's degree. Credits applied to the Linked Bachelor's-Master's Program are not eligible to be applied to any other graduate degree program.

GRADUATE STUDY

The Department of Political Science offers a Master of Arts and a Doctor of Philosophy degree program in Political Science and a Master of Public Policy degree program in Public Policy.

The graduate degree programs in the Department of Political Science are designed to help students become thoroughly grounded in the knowledge base and research methods of political science. Training is given in the following major fields of political science: American politics, comparative politics, international politics, public policy, political thought, formal theory, and research methodology.

The Department of Political Science and the Department of Economics jointly offer a Master of Public Policy Degree, as well as Linked Bachelor's-Master's Degree in Public Policy. The Master of Public Policy Degree and the Linked Bachelor's-Master's Degree in Public Policy provide students with the requisite skills to address complex societal problems, reconcile conflicting political and ethical values in policymaking, make informed decisions about program activities, and provide effective leadership in policy development and implementation.

In addition to meeting the requirements of the university and of the College of Social Science, graduate students must meet the requirements specified below.

Admission

A bachelor's degree from an accredited educational institution is required for admission. Applicants should have the equivalent of an undergraduate major in political science, in a related social science, or in mathematics, statistics, or computer science. Some background in social science research methods, statistics, and/or basic mathematical operations is recommended. Normally, a minimum grade-point average of 3.20 in the last two years of undergraduate work is required for admission.

Applicants must take the Graduate Record Examination (GRE) General Test. Official results from this examination should be sent to the Department of Political Science.

Admission to the doctoral program is limited to **fall semester only**. For the Master of Public Policy program, most students are admitted for fall semester; applications for the spring semester will be considered on the basis of available openings. Applications for admission and financial aid should be submitted by March 1. Applications for admission alone will be accepted until approximately May 15.

Academic Standards

Graduate students must maintain a cumulative grade-point average of at least 3.00. Only those courses completed with a grade of 2.5 or higher may be counted toward the requirements for the master's or doctoral degree. A student who received two grades of 2.5 or below, or one grade of 2.0 or below, may be withdrawn from the program. A student who received three grades of 2.5 or below, or two grades of 2.0 or below, will be withdrawn from the program.

POLITICAL SCIENCE

Master of Arts

The Master of Arts program is designed to prepare students for doctoral studies. Those accepted are judged by the committee on admissions as qualified to enter the doctoral program, and it is anticipated they plan to complete this program at Michigan State University.

In addition to meeting the requirements of the university, of the College of Social Science, and of the Department of Political Science, students must meet the requirements specified below.

Requirements for the Master of Arts Degree in Political Science

The program is available only under Plan B (without thesis). The student must meet the requirements specified below:

	CREDITS
1. Complete at least 30 credits distributed as follows:	
a. At least 24 credits in Political Science courses at the 800–900 level including Political Science 800, 801, and 802	24
b. No more than 6 credits in courses at the 400–900 level in related disciplines	6
2. Submit two substantial research papers acceptable to the department. These papers normally will be written in graduate seminars in Political Science and will be evaluated by the instructor(s) of the courses. With the written approval of the department, a student may complete fewer than 24 credits in Political Science courses and more than 6 credits in courses in related disciplines.	

Academic Standards

The student must maintain an overall grade-point average of 3.00 or higher.

Transfer Credits

For Law College students who have been admitted to the dual J.D.-M.A. program with Michigan State University - College of Law, a maximum of 12 credits from Michigan State University - College of Law may be transferred to the M.A. program with a major in political science. A grade of 2.0 in a Law course will transfer to MSU as a passing grade. Students will be assessed at the Law College tuition rate with a graduate assistantship covering only the MSU cost of in-state tuition.

PUBLIC POLICY

The Master of Public Policy degree in Public Policy is designed to provide students with theoretical knowledge and specific skills essential for professional achievement in the public and non-profit sectors. The objective of this program is to develop an analytical approach to the public decision-making process through the systematic study of policy and policy analysis. Current professionals in the field of public policy or others who are interested in a career in public policy in the non-profit sector or in government will find this program appealing.

In addition to meeting the requirements of the university, the College of Social Science, and the Department of Political Science, students must meet the requirements specified below.

Requirements for the Master of Public Policy Degree in Public Policy

The program is available only under Plan B (without thesis). The student must complete 39 credits in courses approved by the director of the Master in Public Policy program and distributed as follows:

	CREDITS
1. Complete all of the following courses:	
PPL 801 Quantitative Methods in Public Policy	3
PPL 802 Quantitative Methods in Public Policy II	3
PPL 805 Microeconomic Theory	3
PPL 806 Policy Evaluation	3
PPL 807 Public Policy	3
PPL 808 Policy Development and Administration	3
PPL 813 Public Finance	3
PPL 890 Policy Workshop	3
PPL 891 Issues in Public Policy	6
2. Complete an additional 9 credits of course work at the 800-level or above as approved by the director of the program.	

3. Students with no professional experience will be required to complete 3 credits of Public Policy 894 Field Experience Practicum.
4. Successful completion of a final examination or evaluation.

Doctor of Philosophy

The doctoral degree is generally undertaken by students wishing to teach political science and government at the college level and by those seeking professional careers in political and social research. Special attention is given at the doctoral level to intensive training in political research.

In addition to meeting the requirements of the university, of the College of Social Science, and of the Department of Political Science, students must meet the requirements specified below.

Requirements for the Doctor of Philosophy Degree in Political Science

The doctoral student must:

- | | CREDITS |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| 1. Earn at least 45 credits in political science courses including: | |
| a. All of the following courses (15 credits): | |
| PLS 800 Proseminar: Political Theory and Research Methods | 3 |
| PLS 801 Quantitative Techniques in Public Policy and Political Science I | 3 |
| PLS 802 Quantitative Techniques in Public Policy and Political Science II | 3 |
| PLS 803 Political Thought | 3 |
| PLS 809 Proseminar in Formal Theory | 3 |
| b. At least four courses in a major field, approved by the student's guidance committee, selected from one of the following political science fields: American politics, comparative politics, international relations, public policy, or political philosophy. | |
| c. At least three courses in a minor field, approved by the student's guidance committee, selected from one of the following political science fields: American politics, comparative politics, international relations, political philosophy, public policy, research methodology, or formal theory. | |
| 2. Pass a comprehensive examination in both the major and minor field. | |
| 3. Successfully write and defend a doctoral dissertation in a public oral examination. | |

Additional requirements and evaluations are described in the Ph.D. Handbook on the department's Web site at www.pls.msu.edu.

Academic Standards

Academic standards for the Doctor of Philosophy degree program are described in the Ph.D. Handbook on the department's Web site at www.pls.msu.edu.

DEPARTMENT of PSYCHOLOGY

Juli Wade, Chairperson

As a science, psychology is concerned with theories, principles, facts and methods as they relate to understanding, predicting and influencing human behavior: how people perceive; how people learn and forget; how people think, fear, hate, and love; how people develop their individualities or personalities; and how people interpret and respond to social conditions. Psychology is both a biological and social science; it relates behavior to physiological and environmental conditions, including social factors.

As a profession, psychology involves the use of the theories, principles, facts and methods of its science to assist individuals and groups in arriving at better solutions to psychological problems and concerns.

Courses in psychology provide cultural background, supplement the training of students in many other fields concerned with

people, and sometimes become the area of major study for those who plan occupations emphasizing human relations.

The undergraduate program emphasizes the scientific method and theories of behavior. The student is advised to obtain preparation in supporting subjects such as mathematics, philosophy of science, other biological and social sciences, foreign language, and literature. The student who plans a career in psychology, as such, will find graduate education a necessity.

Graduate program descriptions are available from the departmental Web site at: www.psychology.msu.edu.

UNDERGRADUATE PROGRAMS

Requirements for the Bachelor of Arts Degree in Psychology

1. The University requirements for bachelor's degrees as described in the *Undergraduate Education* section of this catalog; 120 credits, including general elective credits, are required for the Bachelor of Arts degree in Psychology.

The University's Tier II writing requirement for the Psychology major is met by completing one of the following courses: Psychology 401, 402, 405, 409, 410, 411, 413, 424, 440, 441, 455, 475 or 493. Those courses are referenced in item 3. e. below.

2. The requirements of the College of Social Science for the Bachelor of Arts degree.

	CREDITS
3. The following required major courses:	31 or 32
a. All of the following courses:	
PSY 101 Introductory Psychology	4
PSY 295 Data Analysis in Psychological Research	3
PSY 395 Research Design and Measurement in Psychological Research	3
b. One of the following courses:	
PSY 200 Cognitive Psychology	3
PSY 209 Brain and Behavior	3
c. One of the following courses:	
PSY 235 Social Psychology	3
PSY 236 Personality	3
PSY 244 Developmental Psychology: Infancy Through Childhood	3
d. One of the following courses:	
PSY 255 Industrial and Organizational Psychology	3
PSY 270 Community Psychology	3
PSY 280 Abnormal Psychology	3
e. One of the following courses:	
PSY 401 Expertise and Skill (W)	3
PSY 402 Sensation and Perception (W)	3
PSY 405 History of Modern Psychology (W)	3
PSY 409 Psychobiology of Behavioral Development (W)	3
PSY 410 Neurobiology of Learning and Memory (W)	3
PSY 411 Hormones and Behavior (W)	3
PSY 413 Laboratory in Behavioral Neuroscience (W)	4
PSY 424 Child and Family Psychopathology (W)	3
PSY 440 Attitudes and Social Cognition (W)	3
PSY 441 Interpersonal Behavior and Groups (W)	3
PSY 455 Organizational Research Techniques (W)	3
PSY 475 Personality Theories (W)	3
PSY 493 Issues in Psychology (W)	3
f. Electives in Psychology	9

Requirements for the Bachelor of Science Degree in Psychology

1. The University requirements for bachelor's degrees as described in the *Undergraduate Education* section of this catalog; 120 credits, including general elective credits, are required for the Bachelor of Science degree in Psychology.

Students who are enrolled in the Psychology major leading to the Bachelor of Science degree in the Department of Psychology may complete an alternative track to Integrative Studies in Biological and Physical Sciences that totals 8 credits and consists of the following courses: (a) one course in Biological Science; (b) one course in Chemistry or one course in Physics (numbered 181B or higher); and (c) laboratory experience in biological or physical science totaling 2 credits. Courses taken for the alternative track may not be counted toward the College of Social Science NATURAL SCIENCE REQUIREMENT.

The completion of Mathematics 124 or 132. It may satisfy the University mathematics requirement or the College of Social Science NATURAL SCIENCE REQUIREMENT, but not both.

The University's Tier II writing requirement for the Psychology major is met by completing one of the following courses: Psychology 401, 402, 405, 409, 410, 411, 413, 424, 440, 441, 455, 475, or 493. Those courses are referenced in item 3. e. below.

2. The requirements of the College of Social Science for the Bachelor of Science degree.

The completion of the science and mathematics courses referenced in item 4. below may also be used to satisfy the College of Social Science NATURAL SCIENCE REQUIREMENT (referenced in section II. C. under the heading *Graduation Require-*

SOCIAL SCIENCE
Department of Psychology

ments for the Bachelor of Arts and Bachelor of Science Degrees in the college statement.)

	CREDITS
3. The following requirements for the major:	31 or 32
a. All of the following courses:	
PSY 101 Introductory Psychology	4
PSY 295 Data Analysis in Psychological Research	3
PSY 395 Research Design and Measurement in Psychological Research	3
b. One of the following courses:	
PSY 200 Cognitive Psychology	3
PSY 209 Brain and Behavior	3
c. One of the following courses:	
PSY 235 Social Psychology	3
PSY 236 Personality	3
PSY 244 Developmental Psychology: Infancy Through Childhood	3
d. One of the following courses:	
PSY 255 Industrial and Organizational Psychology	3
PSY 270 Community Psychology	3
PSY 280 Abnormal Psychology	3
e. One of the following courses:	
PSY 401 Expertise and Skill (W)	3
PSY 402 Sensation and Perception (W)	3
PSY 405 History of Modern Psychology (W)	3
PSY 409 Psychobiology of Behavioral Development (W)	3
PSY 410 Neurobiology of Learning and Memory (W)	3
PSY 411 Hormones and Behavior (W)	3
PSY 413 Laboratory in Behavioral Neuroscience (W)	4
PSY 424 Child and Family Psychopathology (W)	3
PSY 440 Attitudes and Social Cognition (W)	3
PSY 441 Interpersonal Behavior and Groups (W)	3
PSY 455 Organizational Research Techniques (W)	3
PSY 475 Personality Theories (W)	3
PSY 493 Issues in Psychology (W)	3
f. Electives in Psychology	9
4. Other Required Courses	15
Fifteen additional credits in science and mathematics from the College of Natural Science beyond the courses used to satisfy the University mathematics and alternative track requirements, and including at least one course selected from the following areas:	
Animal Behavior	
ZOL 313 Animal Behavior	3
ZOL 355 Ecology	3
ZOL 415 Ecological Aspects of Animal Behavior (W)	3
Genetics	
ZOL 141 Introductory Human Genetics	3
ZOL 341 Fundamental Genetics	4
ZOL 445 Evolution (W)	3
Neuroscience	
ZOL 402 Neurobiology	3
ZOL 430 Neuroendocrine Aspects of Behavior	3
Physiology	
PSL 250 Introductory Physiology	4
PSL 431 Human Physiology I	3

Honors Opportunities

Several courses are especially suitable for students pursuing honors programs in psychology. Periodically an honors section of a regularly scheduled course may be offered. Qualified students may also seek to take any course in the department with an **H-option** by making advance arrangement with the instructor.

TEACHER CERTIFICATION OPTIONS

A psychology disciplinary minor is available for teacher certification.

Students who elect the psychology disciplinary minor must contact the Department of Psychology.

For additional information, refer to the statement on *TEACHER CERTIFICATION* in the *Department of Teacher Education* section of this catalog.

GRADUATE STUDY

The primary objective of doctoral programs in the Department of Psychology is to develop psychologists who are creative scholars. At the same time, students must develop the basic skills of their particular specialty and be well prepared for job entry duties and responsibilities through carefully supervised experience in research, teaching, and consulting. Relevant learning experi-

ences are arranged in agencies such as industries, clinics, hospitals, schools, and government offices as needed by the individual student on-campus.

Our graduate programs include: behavioral neuroscience, cognition and cognitive neuroscience, clinical, ecological/community, organizational, and social/personality psychology. Students in these programs may also participate in advanced graduate training through a concentration in Quantitative Methodology and Evaluation Science (QMES).

A fully online master's program and graduate certificate in Program Evaluation are available. See <http://progeval.msu.edu>.

Students who are enrolled in master's or doctoral degree programs in the Department of Psychology may elect an Interdepartmental Specialization in Cognitive Science. For additional information, refer to the statement on *Interdepartmental Graduate Specializations in Cognitive Science*. For additional information, contact the Department of Psychology.

Students who are enrolled in Master of Arts and Doctor of Philosophy degree programs in the Department of Psychology may elect specializations in Infancy and Early Childhood. For additional information, refer to the statement on *Interdepartmental Graduate Specializations in Infancy and Early Childhood*.

PSYCHOLOGY

Master of Arts and Doctor of Philosophy

Students are accepted for graduate study in psychology only if judged by a departmental committee to be qualified to complete a doctoral degree, and programs of study are planned with this goal in mind; the master's sequence is generally developed as an integral part of the doctoral program with special attention given to the plans and needs of each student. Additional details are given under the doctoral program as outlined below. There is no terminal master's program.

In addition to meeting the requirements of the university and of the College of Social Science, students must meet the requirements specified below.

Admission

Factors given major consideration for admission to the graduate program at the first-year level include (1) an approved bachelor's degree from a recognized college or university, (2) a junior-senior undergraduate grade-point average of 3.20 or better in academic studies, (3) undergraduate courses in experimental psychology and statistics, (4) satisfactory scores on the Graduate Record Examination General Test and Subject Test in Psychology, and (5) approval by a departmental committee. The same factors are considered for entrance at an advanced level, plus a record of scholarly achievements in the graduate study of psychology. That an applicant has achieved the above is not sufficient for admission. The number of applicants with superior qualifications exceeds the number of students that can be accommodated.

The department is especially interested in quality students and generally accepts them regardless of their undergraduate majors provided that they have adequate background for graduate study in psychology. Students meeting only the requirements for admission to provisional status are not generally accepted.

Students planning to apply for admission to graduate work in psychology should correspond with the department by October in order to meet the January 5 application deadline. This will allow time for tests and other formalities which must be completed before admission. Completed applications must be received by January 5 for consideration for the subsequent fall semester. Only rarely are new students admitted for semesters other than fall semester.

Requirements for the Master of Arts and Doctor of Philosophy Degrees in Psychology

To meet individual needs, every student has a guidance committee with the student's advisor as chairperson. The committee develops a program of studies in consultation with the student. In the doctoral program, a comprehensive examination is required.

There is no general language requirement. Where acquaintance with a foreign language is necessary for advancing the special interest of a particular student, the guidance committee may impose foreign language requirements.

Psychology graduate students may participate in advanced graduate training through a concentration in Quantitative Methodology and Evaluation Science (QMES). Students selecting this concentration must complete two prerequisite courses, three advanced training courses, and one student-developed project under the supervision of two members of the Quantitative Methodology and Evaluation Science faculty. For additional information on specific requirements, refer to the Quantitative Methodology and Evaluation Science Web site at www.psychology.msu.edu/GraduateProgram/Quant.htm.

Clinical psychology graduate students also participate in two concentrations: Multiculturalism and Diversity in Clinical Psychology (Psychology 828, 853, 854, 855, 952, 954, and 3 credits of Psychology 994) and Research Methods in Clinical Psychology (Psychology 818, 828, 853, 854, 855, 952, and 954).

Transfer Credits

For Law College students who have been admitted to the dual J.D. - M.A. program with Michigan State University - College of Law, a maximum of 9 credits from Michigan State University - College of Law may be transferred to the M.A. program with a major in psychology. A grade of 2.0 in a Law course will transfer to MSU as a passing grade. Students will be assessed at the Law College tuition rate with a graduate assistantship covering only the MSU cost of in-state tuition.

PROGRAM EVALUATION

Graduate Certificate

The Graduate Certificate in Program Evaluation prepares students for evaluation careers in diverse settings including government, education, social services, and evaluation consulting firms. It emphasizes professional development in history, theory, and standards of evaluation practice, evaluation methods, and evaluation practice skills.

Admission

To be admitted to the Graduate Certificate in Program Evaluation, applicants must have:

1. an academic record equivalent to at least 3.00 (B) in undergraduate course work in their junior and senior year. This requirement is waived for students currently pursuing a master's or doctoral degree program at MSU.
2. submitted three letters of recommendation and a personal statement about their academic and professional goals and experience. This requirement is waived for students currently pursuing a master's or doctoral degree program at MSU. Students currently pursuing a graduate degree at MSU should submit a letter from their program adviser or chairperson indicating that the student is in good standing and they agree the certificate is an appropriate adjunct training opportunity.

Admission to the program is selective and meeting the minimum standards does not guarantee admission. The applicant's overall record is considered, including the student's personal statement, recommendations, academic transcripts, and other documentation as required.

Requirements for the Graduate Certificate in Program Evaluation

The Graduate Certificate in Program Evaluation is available only online. A total of 12 credits are required for the certificate.

	CREDITS
1. The following course (3 credits):	
PSY 880 Foundations of Evaluation Practice	3
2. One of the following courses (3 credits):	
PSY 881 Evaluation Design	3
PSY 884 Qualitative and Mixed Method Evaluation Methods	3
3. Two of the following courses (6 credits):	
PSY 881 Evaluation Design	3
PSY 882 Evaluation Data Collection Methods	3
PSY 883 Statistics for Evaluators I	3
PSY 884 Qualitative and Mixed Method Evaluation Methods	3
PSY 885 Communicating and Reporting	3
PSY 887 Statistics for Evaluators II	3
PSY 888 Evaluation Management	3
Courses used to fulfill requirement 1. above may not be used to fulfill this requirement.	

Master of Arts

The Master of Arts degree in Program Evaluation prepares students for evaluation careers in diverse settings including government, education, social services, and evaluation consulting firms. It emphasizes professional development in history, theory, and standards of evaluation practice; evaluation methods; effective interpersonal and communication skills; and management of evaluation activities. Students will obtain direct practice experience under the supervision of program faculty.

In addition to meeting the requirements of the university and the College of Social Science, students must meet the requirements specified below.

Admission

To be admitted to the Master of Arts degree in Program Evaluation, applicants must have:

1. a bachelor's degree from a recognized educational institution.
2. an academic record equivalent to at least 3.00 (B) in undergraduate course work in their junior and senior year.
3. at least 12 undergraduate credits in a social science such as anthropology, sociology, or psychology.
4. submitted three letters of recommendation and a personal statement about their academic and professional goals and experience.
5. submitted Test of English as a Foreign Language (TOEFL) scores if they are an international student.

Admission to the program is selective and meeting the minimum standards does not guarantee admission. The applicant's overall record is considered, including the student's personal statement, recommendations, academic transcripts, and other documentation as required.

Requirements for the Master of Arts Degree in Program Evaluation

The Master of Arts degree in Program Evaluation is available only online and only under Plan B (non-thesis). A total of 37 credits are required for the degree.

	CREDITS
1. Students must complete 37 credits from the following courses:	
PSY 880 Foundations of Evaluation Practice	3
PSY 881 Evaluation Design	3
PSY 882 Evaluation Data Collection Methods	3
PSY 883 Statistics for Evaluators I	3

SOCIAL SCIENCE
Department of Psychology

- PSY 884 Qualitative and Mixed Method Evaluation Methods 3
 - PSY 885 Communicating and Reporting 3
 - PSY 886 Evaluation Practicum Preparation 1
 - PSY 887 Statistics for Evaluators II 3
 - PSY 888 Evaluation Management 3
 - PSY 889 Evaluation Practicum 12
2. Completion of a final oral examination or evaluation.

SCHOOL of SOCIAL WORK

Steven G. Anderson, Director

Social work is a profession that assists people in improving life circumstances through both personal and social changes. Social work's area of expertise is found at the interface of the person and the person's environment. Social workers use a variety of practice methods, in numerous settings, with diverse population groups encountering a multitude of social problems.

The priority of the Michigan State University School of Social Work in education, research, and service, concerns the welfare of vulnerable, disenfranchised, and oppressed peoples in the state, nation, and international communities. The school's primary focus is providing educational leadership in meeting direct practice, clinical practice, community practice, policy, and research needs of social workers, social service agencies, and consumers, especially related to populations at risk. Understanding the value base and ethical code fundamental to social work practice likewise is essential. The School of Social Work values and seeks a diverse student population in terms of gender, ethnicity, race, age, sexual orientation, ability, and socio-economic class, with various life and educational experiences and from all geographical areas.

UNDERGRADUATE PROGRAM

The Bachelor of Arts Degree in Social Work is accredited by the Council on Social Work Education. The primary educational goal of the program is to prepare students for beginning generalist social work practice. Students apply for admission to the social work major and primarily complete course work in their junior and senior years. Students also complete a field practicum in their senior year. For a detailed program description visit www.socialwork.msu.edu.

Admission as a Junior

The number of students who can be admitted as juniors to the bachelor's degree program in social work is limited. Applications are accepted and reviewed **only** during the spring semester of each year.

All persons who are interested in applying for admission as juniors to the bachelor's degree program in social work must request a special application form and detailed information regarding admission requirements and procedures from the School of Social Work Website at www.socialwork.msu.edu/basw.

Students who are enrolled in colleges and universities other than Michigan State University should contact Michigan State University's Office of Admissions and the School of Social Work regarding admission to the bachelor's degree program in social work as transfer students.

To be considered for admission as a junior to the bachelor's degree program in social work, a student must have:

- Submitted a completed application form by the deadline specified by the school.

- Completed Social Work 200, which is a prerequisite for the 300–400 level courses required for the bachelor's degree.
- Completed the courses in related areas referenced in items 3. b. (1), (2), (3), and (4) under the heading *Requirements for the Bachelor of Arts Degree in Social Work*.

Admission to the bachelor's degree program in social work is competitive, and there is no guarantee that students with a major preference in social work will be admitted to the bachelor's degree program as juniors. In making admissions decisions, the faculty considers the relative qualifications of applicants, their suitability for the program, and the enrollment capacity of the program.

A student who has been admitted to the bachelor's degree program in social work for a given semester, but then decides not to enroll for that semester, would need to reapply for admission to the program. There is no guarantee that the student would be admitted to the program again.

Honors Study

Students interested in honors study in social work should consult with academic advisors in the school.

Requirements for the Bachelor of Arts Degree in Social Work

- The University requirements for bachelor's degrees as described in the *Undergraduate Education* section of this catalog; 120 credits, including general elective credits, are required for the Bachelor of Arts degree in Social Work.
The University's Tier II writing requirement for the Social Work major is met by completing Social Work 440. That course is referenced in item 3. below.
- The requirements of the College of Social Science for the Bachelor of Arts degree.
- The following required major courses:

	CREDITS
a. The following courses in related areas	20 or 21
(1) All of the following courses (11 credits):	
PLS 100 Introduction to American Politics	3
PSY 101 Introductory Psychology	4
SOC 100 Introduction to Sociology	4
(2) One of the following courses (3 or 4 credits):	
MMG 141 Introductory Human Genetics	3
PSL 250 Introductory Physiology	4
PSY 209 Brain and Behavior	3
(3) One of the following courses (3 credits):	
EC 201 Introduction to Microeconomics	3
EC 202 Introduction to Macroeconomics	3
(4) One of the following courses (3 credits):	
PSY 200 Cognitive Psychology	3
PSY 235 Social Psychology	3
PSY 236 Personality	3
PSY 244 Developmental Psychology: Infancy Through Childhood	3
PSY 270 Community Psychology	3
PSY 280 Abnormal Psychology	3
b. All of the following Social Work courses:	38
A grade of 2.0 must be earned in each of the following courses: Social Work 310, 320, 420, 430, 431, 440, 441, 494A, and 494B. A minimum of 2.0 must be earned to progress to a course for which one of these courses is a prerequisite.	
SW 200 Introduction to Social Work	3
SW 310 Human Behavior and Social Environment	3
SW 320 Social Work and Social Policy I	3
SW 340 Foundations of Social Work Practice	3
SW 420 Social Work and Social Policy II	3
SW 430 Research Methods in Social Work I	4
SW 431 Research Methods in Social Work II	3
SW 440 Social Work Practice with Individuals, Families, and Groups (W)	3
SW 441 Social Work Practice with Task Groups, Organizations and Communities	3
SW 494A Social Work Field Education: Foundation I	5
SW 494B Social Work Field Education: Foundation II	5
c. One of the following courses (3 credits):	
ANP 201 Introduction to Cultural Anthropology	3
HDFS 442 Ethnic Families in America	3
SOC 215 Race and Ethnicity	3
SOC 216 Sex and Gender	3

GRADUATE STUDY

The Master of Social Work (MSW) degree program is accredited by the Council on Social Work Education. The primary educational goal of the MSW graduate program is to prepare students for advanced social work practice. Students select either Clinical Social Work or Organization and Community Leadership as an advanced concentration. The Clinical Social Work concentration is designed to prepare students to work with individuals, families, and small groups, using strategies of intervention that range from advocacy to psychotherapy. The Organization and Community Leadership concentration is designed to prepare students to engage in administrative, community development, policy, and advocacy change processes and interventions.

There are different paths of completion for the MSW degree. The School offers a part-time MSW program in Flint, Michigan, and full-time and part-time Accelerated Advanced Standing Programs in Oakland County and in Saginaw.

The school also offers the Blended Statewide and Weekend accredited MSW degree programs, which are available in many sites across Michigan. This program format combines face-to-face activities, videoconferencing, and online instruction, structured in a unique learning community. The program requires year-round participation for three years in a part-time model designed to accommodate working professionals. Field placements are arranged near where students live or work. There is a required one-week summer institute for three consecutive summers, generally held in June.

The MSW program requires 57 credits for degree completion. Students who are admitted to this program after having completed the equivalent of the first year of this program at another university are required to complete a minimum of 31 credits while enrolled in the MSW degree program at Michigan State University. A maximum of 26 credits of graduate-level work in another program accredited by the Council on Social Work Education may be applied to the credit requirements under the MSW degree.

Students who hold a bachelor's degree in social work from a program that is accredited by the Council on Social Work Education and meet admission requirements may apply for admission to the Accelerated Master of Social Work Advanced Standing Program. This program requires a minimum of 38 credits for the MSW degree and can be completed full-time over one year or part-time over two-years.

Students who are enrolled in the MSW degree program in the School of Social Work may elect to complete an optional certificate program in a variety of areas including school social work, law and social work, advanced clinical practice with families, social work with older adults, substance abuse, social work and health, or trauma-focused social work practice.

Students who are enrolled in the Master of Social Work degree program in the School of Social Work may elect specializations in Infancy and Early Childhood. For additional information, refer to the statement on *Interdepartmental Graduate Specializations in Infancy and Early Childhood*.

The Doctor of Philosophy degree in Social Work, which is open to students who already have earned an MSW degree, emphasizes the development, analysis, and application of social work knowledge, and is designed to prepare social workers for professional leadership positions in the academy and/or in other research settings.

Master of Social Work

The Master of Social Work degree program includes extensive required courses and course sequences in social work. Only Plan B (without thesis) is available.

In addition to meeting the requirements of the university and of the College of Social Science, students must meet the requirements specified below.

Admission to the Master of Social Work Degree Program

All students, with the exception of those applying for the Blended Statewide Clinical program and the Weekend Program with a major in organization and community leadership, begin the Master of Social Work degree program in the fall semester to align their enrollment with the sequencing of required courses. Therefore, applicants should seek admission during the previous fall semester. Applicants interested in the Blended Statewide Clinical program should apply for summer admission because it begins in a summer session. Students wishing to be considered for admission must submit the application materials requested on the School of Social Work Web site at www.socialwork.msu.edu. Although an undergraduate major or concentration in the social sciences or in social work may be helpful, it is not required.

To be considered for admission to the Master of Social Work degree program, a person must have:

1. A bachelor's degree from a recognized institution.
2. A grade-point average of at least 3.0 (on a 4.0 scale) during undergraduate study or in 14 or more credits of graduate study. The grade-point average in the last 60 credits or their equivalents of undergraduate course work is primarily considered.
3. Prior academic record including at least 19 credits in liberal arts.

Applicants will be evaluated on a combination of factors:

1. Grade-point average in undergraduate study or in 14 or more credits of graduate study.
2. Evidence of personal qualities considered important for the practice of social work.
3. Judgments by the faculty of the candidate's commitment to social work and suitability for the profession, based on a reading of the application.
4. Length and type of work and volunteer experience.
5. Three letters of reference.

In addition to these requirements, applicants to the Blended Statewide Clinical program must:

1. Live more than 50 miles from both the East Lansing and Flint campuses.
2. Have regular access to high-speed internet service.
3. Have at least two years of full-time experience, or equivalent, in human services during the last five years, generally after completion of the bachelor's degree.
4. Complete an online assessment and orientation program on how to learn effectively in the online environment.
5. Participate in a personal interview.

Requirements for the Master of Social Work Degree Program

The student must complete 57 credits in specified instruction in social work. Detailed plans of study are available in the Master of Social Work Manual which is available at www.socialwork.msu.edu. Required course work for both the Clinical Social Work major and the Organization and Community Leadership major are taken in the following areas: social work practice methods, human behavior and the social environment, social welfare policy, research methods, and field education.

Admission to the Accelerated Master of Social Work Degree Program

Persons who hold a recent bachelor's degree in social work from a program that is accredited by the Council on Social Work Education (CSWE) may apply for admission to the Accelerated Master of Social Work Advanced Standing Program.

Students are admitted only for summer session. Applicants should therefore seek admission during the previous fall semester. Students wishing to be considered for admission must submit all the application materials available on the School of Social Work Web site (www.socialwork.msu.edu), as well as the application to the university for Graduate Study.

To be considered for admission to the Accelerated Master of Social Work Advanced Standing program, a person must have:

1. A bachelor's degree in social work from a program that is accredited by the Council on Social Work Education (CSWE) and was granted within the last six years.
2. A grade-point average of at least 3.25 (on a 4.0 scale) during undergraduate study. The grade-point average in the last 60 credits or their equivalents of undergraduate course work is also considered.

Applicants will be evaluated on a combination of factors:

1. Judgments by the faculty of the candidate's commitment to social work and suitability for the profession, based on a reading of the application.
2. Length and type of work and volunteer experience.
3. Two letters of reference and a field/practicum employment evaluation from the undergraduate faculty or agency practicum instructor or from the most recent social work agency at which the applicant was employed.
4. Evidence of personal qualities considered important for the practice of social work.

Persons who are admitted to the Accelerated Master of Social Work Advanced Standing program must have successfully completed an undergraduate course in statistics or an approved equivalent at the time of matriculation.

Requirements for the Accelerated Master of Social Work Advanced Standing Program

The student must complete 38 credits in specified instruction in social work. Detailed plans of study are available in the *Master of Social Work Manual* which is located at www.socialwork.msu.edu. Required course work for both the Clinical Social Work major and the Organization and Community Leadership major are taken in the following areas: social work practice methods, social welfare policy, research methods, and field education.

Residence

One year of residence consisting of two consecutive semesters and involving at least 7 credits of graduate course work each semester is required. If students attend part-time, the residency requirement must be met in the year that the advanced methods and practicum courses are being completed.

Part-Time Students

Both the Master of Social Work program and the Accelerated Master of Social Work Advanced Standing program are available on a part-time basis.

At the time of admission, students must apply for either part-time or full-time study. Students may not transfer between part-time and full-time study without approval of the school.

Part-time students must progress through a plan of study as specified by the school. All students must meet their residence requirements during the year in which they are enrolled in the advanced practice and field instruction courses.

Doctor of Philosophy

The Doctor of Philosophy in Social Work is an interdisciplinary program rooted in the historical, epistemological, and philosophical bases of social work. It is designed to prepare social workers for leadership positions in the profession as educators, researchers, policy makers, and/or administrators. It places emphasis on the development, analysis, and application of social work knowledge related to professional practice, and is designed to contribute to the advancement of knowledge in the social work profession and field of social welfare.

In addition to meeting the requirements of the university and the College of Social Science, students must meet the requirements specified below.

Admission

The doctoral program in social work invites applications from experienced social workers who hold a Master of Social Work (MSW) degree from a Council on Social Work Education (CSWE) accredited graduate program. Applicants must provide evidence of outstanding professional competence, academic excellence and a capacity to develop concepts and articulate issues related to the social work profession, and an interest in advanced social work research, education, and practice. Applicants with outstanding academic records may be admitted to the program provisionally and permitted to make up deficiencies on a collateral basis.

Requirements for the Doctor of Philosophy Degree in Social Work

The program requires 21 credits in post-master's social work education, including the completion of a research internship. Students must also take 18 credits of course work outside the School of Social Work including 6 credits of statistics and 12 credits in a social science discipline or focused cognate. In addition, students must complete a comprehensive examination administered by the student's guidance committee, complete 24 credits of dissertation research, and successfully defend the dissertation.

DEPARTMENT of SOCIOLOGY

Dean Rehberger, Acting Chairperson

The world is rapidly changing. Global processes are transforming societies, changing cities and forms of economic production, creating new ways to communicate and precipitating new migration patterns, impacting human health and life chances, reshaping the environment, increasing social inequalities, and posing new risks and opportunities. New forms of labor, social movements, family life, health care delivery, military conflicts, and ways to distribute food and services are emerging. These global forces are changing the character of sociology itself.

The MSU Department of Sociology examines these changing social dynamics through domestic and international scholarship. To signify this perspective, the department has adopted the theme of global transformation to indicate what unifies the diverse activities of our faculty and students.

Global transformation implies a commitment to global and cross-national projects and programs. Our research analyzes global social, political, and cultural differences as well as how a global system often shapes social and environmental processes and movements, change, racial and ethnic inequalities, gender relations, social and economic conflict, and innovation.

UNDERGRADUATE PROGRAM

Sociologists study how societies are created, maintained, and challenged. They think about the ways in which individuals and social structures interact. The department's undergraduate program is designed to give students an understanding of these processes throughout the world and of the major patterns of social behavior and organization in the United States. Courses deal with a range of topics including the basic institutions of society such as the economy and industry, education, family, health care and medicine, politics, sciences, mass media, the arts, and technology. Students examine how change occurs in rural and urban communities, in the environment, and in bureaucracies. They consider how knowledge may be used to bring about change. Courses on international development, sex and gender, racial and ethnic inequality, and changes in the lifecycle focus on the rich cultural and social diversity of individual and group behavior. Courses in social psychology and personality enable students to understand how individual behavior is affected by group life. Courses that focus on fundamental methods and techniques of research are important for understanding how to collect and interpret data on individual and group behavior. Opportunities are also available for participation in faculty research projects where the knowledge and skills learned in the classroom can be applied to real world situations. Some students have used their bachelor's degrees in sociology as a foundation for graduate and professional study in medicine, law, business, urban planning, social work, labor and industrial relations, and public health, or for advanced graduate study in preparation for careers as college teachers and researchers. Others may pursue positions in business, public service, sales research, teaching, public relations, and administration.

A Minor in Sociology is available as an elective to students who are enrolled in bachelor's degree programs at Michigan State University other than the Bachelor of Arts or Bachelor of Science degree in Sociology. With the approval of the department and college that administer the student's degree program, the courses that are used to satisfy the minor may also be used to satisfy the requirements for the bachelor's degree. A total of 19 credits in

the Department of Sociology are required for the minor. For further information about the minor in Sociology, visit www.soc.msu.edu.

Requirements for the Bachelor of Science Degree in Sociology

- The University requirements for bachelor's degrees as described in the *Undergraduate Education* section of this catalog; 120 credits, including general elective credits, are required for the Bachelor of Science degree in Sociology.
The University's Tier II writing requirement for the Sociology major is met by completing Sociology 488 or 499. Those courses are referenced in item 3. a. below.
The completion of Statistics and Probability 200, 201, 421 or 422, referenced in item 4. below may also satisfy the University mathematics requirement.
- The requirements of the College of Social Science for the Bachelor of Science degree.

	CREDITS
3. The following required major courses:	33
a. All of the following courses:	
SOC 100 Introduction to Sociology	4
SOC 241 Social Psychology	3
SOC 281 Methods of Social Research I	4
SOC 282 Methods of Social Research II	4
SOC 488 Sociological Theory (W)	3
SOC 499 Social Issues and Change in Contemporary Society (W)	3
b. One of the following courses that are related to diversity:	
SOC 215 Race and Ethnicity	3
SOC 216 Sex and Gender	3
SOC 330 Social Stratification	3
c. A minimum of three additional Sociology courses at the 300 level or higher, at least one of which must be at the 400 level	9
4. Complete 15 additional credits in the natural sciences selected as follows:	
a. One of the following courses in computer science:	
CSE 101 Computer Concepts and Competencies	3
CSE 131 Technical Computing and Problem Solving	3
CSE 231 Introduction to Programming I	4
b. One of the following courses:	
STT 200 Statistical Methods I	3
STT 201 Statistical Methods II	4
STT 421 Statistics I	3
STT 422 Statistics II	3
c. At least 11 or 12 additional credits in the following departments or programs: Biochemistry and Molecular Biology, Biological Science, Chemistry, Entomology, Geological Sciences, Mathematics, Microbiology and Molecular Genetics, Physics and Astronomy, Plant Biology, Plant Pathology, Statistics and Probability, and Zoology. The completion of courses taken in fulfillment of the University Mathematics requirement may not apply towards this requirement. Students should see their academic advisor to obtain a list of approved courses which will meet this requirement.	

Requirements for the Bachelor of Arts Degree in Sociology

- The University requirements for bachelor's degrees as described in the *Undergraduate Education* section of this catalog; 120 credits, including general elective credits, are required for the Bachelor of Arts degree in Sociology.
The University's Tier II writing requirement for the Sociology major is met by completing Sociology 488 or 499. Those courses are referenced in item 3. a. below.
- The requirements of the College of Social Science Bachelor of Arts degree.

	CREDITS
3. The following required major courses:	33
a. All of the following courses:	
SOC 100 Introduction to Sociology	4
SOC 241 Social Psychology	3
SOC 281 Methods of Social Research I	4
SOC 282 Methods of Social Research II	4
SOC 488 Sociological Theory (W)	3
SOC 499 Social Issues and Change in Contemporary Society (W)	3
b. One of the following courses that are related to diversity:	
SOC 215 Race and Ethnicity	3
SOC 216 Sex and Gender	3
SOC 330 Social Stratification	3
c. A minimum of three additional Sociology courses at the 300 level or higher, at least one of which must be at the 400 level	9

MINOR IN SOCIOLOGY

The Minor in Sociology, which is administered by the Department of Sociology, provides a fundamental understanding of the linkages between agency and structure in society. Students obtain knowledge of the principles of sociology, sociological inquiry, diversity in society, and the ways in which global forces are transforming modern society.

The minor is available as an elective to students who are enrolled in bachelor's degree programs at Michigan State University other than the Bachelor of Arts or Bachelor of Science Degree in Sociology. With the approval of the department and college that administers the student's degree program, the courses that are used to satisfy the minor may also be used to satisfy the requirements for the bachelor's degree.

Students who plan to complete the requirements for the minor should consult an undergraduate advisor in the Department of Sociology.

Requirements for the Minor in Sociology

Complete a minimum of 19 credits in the Department of Sociology from the following:

	CREDITS
1. Both of the following courses (7 credits):	
SOC 100 Introduction to Sociology	4
SOC 131 Social Problems	3
2. One of the following courses (3 credits):	
SOC 215 Race and Ethnicity	3
SOC 216 Sex and Gender	3
3. Complete three elective courses in Sociology at the 300-400 level. At least one course must be at the 400-level. Students may use SOC 281 Methods of Social Research I to fulfill this requirement. The courses must be approved by the student's academic advisor.	

TEACHER CERTIFICATION OPTIONS

A sociology disciplinary minor is available for teacher certification.

Students who elect the sociology disciplinary minor must contact the Department of Sociology.

For additional information, refer to the statement on *TEACHER CERTIFICATION* in the *Department of Teacher Education* section of this catalog.

GRADUATE STUDY

The MSU graduate sociology program seeks to develop professionals who will be creative researchers, teachers, and practitioners in knowledge production. The department has five areas of concentration and a number of specialties:

1. **Community and Urban.** Areas of study include community development, decline and environmental justice; community health; creative communities and fostering creativity; urban and regional economic and transportation networks; expressive cultural behaviors of U.S. African American communities; international development and community change; international urban transformations; social stratification and race in communities; gangs, violence, criminal justice in urban communities; urban food systems and food security.
2. **Environment.** Areas of study include food and energy production; land use; our interactions with other species; climate change, pollution, and changes in ecosystem structure and function; and human environment intersections.
3. **Family.** Areas of study include cultural production and maintenance among minority families; domestic violence; family formation and dissolution; gender; health and aging; impact of social change on the family structure, dynamics, and effectiveness; intergenerational transfer; intersectionality and social inequality; LGBT families; marriage and cohabitation;

divorce and widowhood; migration and family; religion and family; work-family conflict.

4. **Health and Medicine.** Areas of study include the social context of health, illness, and health care, with a central focus on health disparities by race/ethnicity, social class, gender, and marital status; political, economic, and environmental circumstances that threaten health; and societal forces that impact the health care system.
5. **Migration.** Areas of study include the African diaspora; the demography of migration; development and migration; the environment and migration; gender and migration; health and migration; migrant ethnic entrepreneurship, communities, and conflict; migrant integration; migration, race, and refugees; migration research methods.

Students who are enrolled in Master of Science degree programs in the Department of Sociology may elect a Specialization in Food Safety. For additional information, refer to the statement on the specialization in the *College of Veterinary Medicine* section of this catalog.

Students who are enrolled in Master of Arts and Doctor of Philosophy degree programs in the Department of Sociology may elect specializations in Infancy and Early Childhood. For additional information, refer to the statement on *Interdepartmental Graduate Specializations in Infancy and Early Childhood*.

For further information about graduate study in sociology, consult the department's Graduate Manual or visit www.sociology.msu.edu.

SOCIOLOGY

Although the department views the Doctor of Philosophy degree as the terminal degree in sociology, a master's degree program with a major in sociology is available.

Master of Arts

In addition to meeting the requirements of the university and of the College of Social Science, students must meet the requirements specified below.

Requirements for the Master of Arts Degree in Sociology

The program is available only under Plan A (with thesis). The student must meet the requirements specified below:

1. Complete 30 credits including:
 - a. All of the following courses (12 credits):

SOC 801 Global Transformations	3
SOC 815 Classical Sociological Theory	3
SOC 881 Analysis of Social Data I	3
SOC 885 Methods of Sociological Inquiry	3
 - b. One of the following courses (3 credits):

SOC 954 Techniques of Population Analysis	3
SOC 985 Qualitative Field Research	3
SOC 986 Survey Research Principles	3
SOC 989 Topics in Sociological Methodology	3
 - c. At least three courses in **one** of the department's major research theme areas of concentration.
 - d. Complete 4 to 8 credits of Sociology 899 Master's Thesis Research.
2. Present the thesis at a colloquium of the faculty who are associated with the student's major research theme area of concentration. The presentation must be acceptable to the faculty and be suitable for presentation at a professional meeting or publication in a professional journal.
3. Participate in the teaching assistant workshop offered by the department.
4. Participate in the Sociology Graduate Seminar for First-Year Students.

Doctor of Philosophy

The doctoral degree program in sociology is designed to give the student a general background in sociological theory and methodology, as well as training in a major substantive area of the discipline.

While there is no language requirement, where acquaintance with a foreign language is necessary for advancing the special interest of the student, the student, in consultation with the guidance committee, may decide upon the study of a foreign language appropriate to their research and career development.

In addition to meeting the requirements of the university and of the College of Social Science, students must meet the requirements specified below.

Requirements for the Doctor of Philosophy Degree in Sociology

In addition to completing the requirements for the Master of Arts Degree in Sociology noted above, the student must meet the requirements specified below:

1. Complete both of the following courses (6 credits):
 - SOC 816 Contemporary Sociological Theory 3
 - SOC 995 Professional Training Seminar 3
2. Complete one of the following, either a. or b. (3 credits):
 - a. SOC 882 Analysis of Social Data II 3
 - b. One of the following courses (3 credits):
 - SOC 954 Techniques of Population Analysis 3
 - SOC 985 Qualitative Field Research 3
 - SOC 986 Survey Research Principles 3
 - SOC 989 Topics in Sociological Methodology 3
 Students must select one of the courses that was not used to fulfill the requirements for the Master of Arts Degree in Sociology.
3. Two additional courses selected from the department's major research theme areas of concentration that were not used to satisfy the requirements for the Master of Arts Degree in Sociology. The courses must be approved by the student's guidance committee.
4. Complete 24 credits of Sociology 999 Doctoral Dissertation Research.
5. Successful completion of the comprehensive examination.
6. Successful defense of the dissertation.

GRADUATE SPECIALIZATION IN ANIMAL STUDIES: SOCIAL SCIENCE AND HUMANITIES PERSPECTIVE

The Graduate Specialization in Animal Studies: Social Science and Humanities Perspective, which is administered by the Department of Sociology, provides graduate students with basic knowledge in relationships between humans and animals and how they are linked together in a fragile biosphere.

The graduate specialization is available as an elective for students who are enrolled in master's or doctoral degree programs at Michigan State University. With the approval of the department and college that administers the student's degree program, the courses that are used to satisfy the specialization may also be used to satisfy the requirements for the master's or doctoral degree.

Students who plan to complete the requirements for the graduate specialization should consult the graduate advisor for the specialization in the Department of Sociology.

Requirements for the Graduate Specialization in Animal Studies: Social Science and Humanities Perspective

- | | CREDITS |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Complete a total of 12 credits from the following: | |
| 1. Both of the following courses (6 credits): | |
| SOC 840 Animals and Social Transformations. | 3 |
| SOC 989 Topics in Sociological Methodology | 3 |
| 2. One of the following courses (3 credits): | |
| ACR 823 Contemporary Issues in Animal-Human Relationships. . . | 3 |
| ANS 805 Animal Welfare Assessment | 3 |
| LAW 565A Animal Law | |
| 3. Complete 3 credits of additional course work that focuses on any aspect of the human-animal relationship that meets the interests of the student. A list of available courses can be found on the specialization Web site. The course must be approved by the student's academic advisor for the specialization. | |

PROGRAM in WOMEN, GENDER, and SOCIAL JUSTICE

Lisa Fine, Director

The Women, Gender, and Social Justice program is a cross-disciplinary academic unit that is administered jointly by the College of Social Science and the College of Arts and Letters. The College of Arts and Letters is the primary administrative unit and the Center for Gender in Global Context oversees advising. The program offers a cross-disciplinary major in women's and gender studies leading to the Bachelor of Arts degree. In addition, an undergraduate minor in women's and gender studies is offered. For additional information, refer to the *Women, Gender, and Social Justice Program* statement in the *College of Arts and Letters* section of this catalog.

CENTER FOR ADVANCED STUDY OF INTERNATIONAL DEVELOPMENT

Robert S. Glew, Director

The Center for Advanced Study of International Development (CASID) is a multidisciplinary unit, organized within the College of Social Science in cooperation with the Office of the Dean of International Studies and Programs and strengthened by the participation of scholars from a variety of other colleges. CASID works to facilitate and catalyze MSU faculty research and scholarship in fields related to international development. The Center is a national and international center of excellence and supports the creation, dissemination, and application of knowledge about international development. CASID seeks to advance knowledge and transform lives through collaborative learning and responsive engagement with peoples and communities around the globe. Established in 1981, CASID has been funded by the U.S. Department of Education to operate as a National Resource Center for Foreign Language and International Studies and continues to award Foreign Language and International Studies Fellowships under Title VI of the Higher Education Act.

CASID also promotes undergraduate and graduate programs focusing on issues of international development, works with academic units to assure continued availability and quality of relevant course offerings, coordinates issue-oriented interest groups, and supports scholarly presentations, and outreach programming.

A undergraduate Minor in Global Studies in Social Science and Graduate Specialization in International Development is available to interested students. For additional information, refer to the statement on *Minors and Specializations* in the *College of Social Science* section of this catalog.

CENTER FOR GLOBAL CHANGE AND EARTH OBSERVATIONS

Jianguo Qi, Director

The Center for Global Change and Earth Observations (CGCEO) is an interdisciplinary research unit administered by the College of Social Science, and which collaborates closely with other units at MSU. Faculty from across the university participate in research focused on the study of global environmental change and its impacts using geospatial information technologies, earth observation satellites, and process-based models to measure, analyze, and predict the human and physical processes of global environmental change. The Center strives to strengthen interdisciplinary approaches for addressing global change at all scales, from the local to the global and from daily to decadal, using the tools of the social and physical sciences.

The Center promotes basic and applied research on global environmental change in key areas including land-use and –cover change dynamics, urbanization and sustainability, land degradation and social-ecological processes; climate change and modeling; assessment and analyses of coupled human and natural systems, assessment and modeling of ecosystem services, carbon sequestration, biodiversity, water and energy fluxes; sustainable development, environmental monitoring and natural resource management. It also seeks to promote the coupling of global scale environmental research with local applications and problem solving. Research is supported through external funding from federal agencies, international organizations, the private sector, and foundations.

The Center develops and uses new tools of geographic information sciences, including open and distributed geographic information systems, satellite remote sensing, spatial and agent-based numerical modeling, field-based sampling, and internet-based spatial decision support systems. It conducts research around the world, with special focus on developing countries in Latin America, Africa (East and West Africa), Eurasia and Asia (Southeast Asia, Central Asia, and East Asia), and Australia, as well as in the Great Lakes and throughout the United States. The Center provides support to graduate research, education and training within the three collaborating colleges and provides academic support for curricula in geographic information science, global change science, and environmental science.

MATRIX: THE CENTER for DIGITAL HUMANITIES and SOCIAL SCIENCES

Dean Rehberger, Director

Matrix: The Center for Digital Humanities and Social Sciences at Michigan State University seeks to advance critical understanding and promote access to knowledge through world-class research in digital humanities and cultural informatics. Digital humanities and cultural informatics bring together the humanist's quest for deeper understanding of human nature, thought, expression, and behavior with the tools, methods and applications of computer science, user experience design, and information and library sciences. Matrix researchers use information and communication technologies to advance, mediate, and inform the humanist disciplines, as well as disciplines within the arts, social sciences, and education. At MSU, Matrix partners in music, history, anthropology and archaeology, education, international studies, museum studies, archives and libraries to build new, global, networked resources, services, and platforms that give life to the metaphor of "Matrix" as the multiple intersections and applications of interdisciplinary research. Matrix therefore applies humanities technology to all the elements of MSU's mission: research, education, outreach, and service to multiple public and professional communities. Guided by basic scholarly and humanist values of excellence, education, access, and inclusiveness, and conducted according to proven, collaborative, scholarly methods and principles, Matrix has become one of the most prestigious humanities technology centers in the world.

To this end, the mission of Matrix: The Center for Digital Humanities and Social Sciences serves as a catalyst for and incubator of the emerging fields of the digital humanities and cultural heritage informatics. In pursuing the Center's vision, Matrix is guided by five broad strategic goals that describe the national research agenda in digital humanities and cultural heritage informatics:

1. Broaden and advance the creation, preservation, access to and interpretation of the human record (both past and present), through collaborative research and development of major digital cultural heritage tools and resources.
2. Forge and strengthen interdisciplinary partnerships, pioneer research and development of pedagogical applications of new digital technologies for the arts, humanities, and social sciences in order to transform teaching and learning.
3. Research, develop, and implement tools and platforms to advance scholarly networking within and across disciplines, develop new forms of online publication within the academy and the broader public.
4. Research, develop and apply information and communication technologies to build domestic and international linkages, promote public involvement, ensure digital equity, and support civil society.
5. Foster a new generation of scholars to research, develop, and implement new technologies, platforms, and approaches for research and teaching, and to pioneer a new type of interdisciplinary humanities scholarship.

For additional information, visit www.matrix.msu.edu.

REMOTE SENSING and GEOGRAPHIC INFORMATION SCIENCE RESEARCH and OUTREACH SERVICES

Justin Booth, Director

Remote Sensing and Geographic Information Science Research and Outreach Services (RS&GIS) is administered by the Department of Geography in the College of Social Science. The program was established to strengthen and support the utilization of geospatial technologies in research, instruction, and extension activities.

RS&GIS promotes interdisciplinary research through the collaborative efforts of faculty investigators, research staff, and students. Technical expertise includes geospatial database creation and analysis, web-mapping application development, aerial imagery processing and interpretation, and cartographic and graphic design. Thematic expertise includes land/water use and change detection, planned economic development, inventory and assessment of natural and human systems, Great Lakes coastal management, and terrain analysis. RS&GIS also maintains the Aerial Imagery Archive, a repository of historical imagery dating back to the 1930s.

Professional staff is available for consultation and technical assistance to faculty, staff, and students. The program sponsors many technical and thematic seminars and short courses.

INSTITUTE FOR PUBLIC POLICY AND SOCIAL RESEARCH

Matthew Grossmann, Director

The Institute for Public Policy and Social Research is a university-wide research institute located within the College of Social Science. The institute provides research and technical assistance programs aimed at state, regional, and local levels of government, and research on national and international comparative issues. Institute personnel have economic, tax policy and analysis, public policy analysis and evaluation, computer programming, data management, statistical, survey analysis, and methodological expertise. The Institute includes the following units:

Michigan Political Leadership Program. This scholarship-funded certificate program is designed for those seeking greater involvement in the public policy process, particularly while serving in public office. Every year, 24 successful applicants participate in a curriculum that provides a solid foundation in practical politics, public policy analysis and process, personal leadership development, and effective governance. The 10-month program is co-directed by two people, one Republican and one Democrat experienced in public leadership and governance.

Legislative Leadership Program. Sponsored with Michigan State University Extension and MSU's Office of Governmental Affairs, this program links scholars, legislators, and practitioners in a discussion of public policy issues and the policy making process. The program kicks off every two years shortly after state elections. It invites newly elected state legislators for a multi-day session on current public policy issues.

Student Fellows. Competitively selected graduate and undergraduate students are engaged in work to enrich and expand leadership, policy and research. Their engagement focuses on compiling, analyzing and publishing research and writing for academic and public audiences.

Public Policy Forums. The institute organizes and carries out regular forums on topics of timely interest for legislators and other governmental decision-makers. They have focused on such issues as energy, education, tax policy, and the state of the nation's infrastructure and economic development.

Office for Survey Research. The institute specializes in telephone interviews, web-based surveys, and mailed questionnaires in support of both of applied and basic research. It also provides consultation in sampling design, question sequencing, statistical analysis, and other technical aspects of survey research. Projects span needs assessments, epidemiological studies, opinion surveys, client feedback surveys, cognitive interview testing, social or economic impact studies, various aspects of focus group design and operation, and political polls. The Office for Survey Research maintains and operates a state-of-the-art research lab.

State of the State Survey. This telephone survey of approximately 1,000 adult residents of Michigan is the only survey conducted to systematically monitor the public mood on important issues in major regions of the state. The quarterly survey runs about 20 minutes in length, and a portion of that time is devoted to questions monitoring the public's satisfaction with public leaders and existing economic conditions. Results are published online. MSU faculty, administrators, profit and nonprofit organizations are consistent sponsors of SOSS questions, research contributors and collaborators.

Visit <http://www.ippsr.msu.edu>.

INSTITUTE of PUBLIC UTILITIES

Janice A. Beecher, Director

Established at Michigan State University in 1965, The Institute of Public Utilities supports informed, effective, and efficient regulation of the infrastructure-intensive network industries providing vital utility services – electricity, natural gas, water, and telecommunications. Its mission is to provide the regulatory policy community with integrative and interdisciplinary educational programs and applied research on the institutions, theory, and practice of modern utility regulation. Public utilities are essential for human health, welfare, and development. Economic regulation is essential in the context of persistent market constraints and

evolving social objectives. The institute is dedicated to regulation in the public interest and is uncompromising with respect to the obligations of diligence and integrity in regulatory governance. It takes a principled approach to regulatory practice, an empirical approach to regulatory analysis, and a reasoned approach to regulatory change. Institute forums address today's biggest challenges, including the complex integration of markets and regulation and the need to enhance oversight capacity. The institute's guiding philosophy is that regulation is well-served by university-based research and education. The institute specializes in providing peer-based learning and networking opportunities, as well as professional education credits. Certificates of participation can lead to a Certificate of Continuing Regulatory Education to recognize commitment to lifelong learning. Diverse program faculty members include nationally recognized university educators and experienced practitioners known for their insight, expertise, and teaching ability.