



College of SOCIAL SCIENCE

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In the complex and rapidly changing world of the 21st century, the educated person must gain a deeper understanding of the human and social dimensions of the world around us and the relations of those dimensions to the natural and technological worlds. The College of Social Science is a diverse and dynamic intellectual community committed to understanding and addressing the myriad challenges facing our world at local and global scales through collaborative learning and responsive engagement with people and communities. We conduct research and provide educational opportunities that foster the knowledge needed to address the problems confronting citizens of our increasingly globalized and highly technological world.

The College of Social Science offers graduate and undergraduate courses and degree programs, research initiatives, and specializations through the following units: Departments of Anthropology, Economics, Family and Child Ecology, Geography, History, Political Science, Psychology, and Sociology; Schools of Criminal Justice, Labor and Industrial Relations, Planning, Design and Construction, and Social Work; Programs in Chicano/Latino Studies and Urban and Regional Planning; Other Units such as 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 Humane Arts, Letters and Social Sciences Online (MATRIX); Remote Sensing and Geographic Information Science Research and 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 specializations, both graduate and undergraduate.

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, Education, Engineering, Human Medicine, and Natural Science; University Outreach and Engagement; International Studies and Programs; Institute for 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 Evening College.

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 minimum number of credits required varies among programs. In

SOCIAL SCIENCE Undergraduate Programs

each school, the major program consists of courses offered within the school and course work in complementary disciplines.

The **Interdisciplinary Studies in Social Science** majors require at least 42 credits. These are broadly-based majors which organize courses around a thematic concentration with a career focus in one of the following fields: Community Relations, Environmental Policy, Health Studies, Human Aging, Human Resources and Society, International Studies, Law and Society (Prelaw), and Public Policy Studies.

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.

Specializations

In addition to undergraduate major programs, the college offers several specializations, which may be combined with the requirements of a student's degree program. Specializations are offered in: African American History and Culture (see *Department of History*), African Studies, Asian Pacific American Studies, Asian Studies, Canadian Studies, Chicano/Latino Studies, Gender and Global Change, International Development, Latin American and Caribbean Studies, Peace and Justice Studies, Security Management (see *School of Criminal Justice*), and Spatial Information Processing (see *Department of Geography*).

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

Students in Social Science may also complete an Environmental Studies Specialization (see the *College of Natural Science* section of this catalog), and numerous specializations offered by other colleges.

Freshmen and Sophomores

Freshmen and sophomores at Michigan State University are enrolled in the Undergraduate University Division 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.

Admission as a Junior to the College of Social Science

1. Completion of at least 56 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 Social Work program at the junior and senior level is limited.

Students will find it difficult to complete a degree program in two years after acceptance in the college as a junior unless a minimum of 60 credits, including some of the program requirements, are earned during the first two years.

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.

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 2.00 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, Family and Child Ecology, Geography, History, 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 Community, 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 2.00 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, Family and Child Ecology, Geography, History, 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 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 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, Psychology, Sociology or the Interdisciplinary Studies in Social Science Health Studies major. Declared premed majors 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
Specialization in African Studies

SPECIALIZATION IN AFRICAN STUDIES

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

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

The undergraduate advisor for African studies in the College of Social Science, located in Room 100 International Center, coordinates the specialization on behalf of the Dean. That advisor 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 specialization must be approved in advance and in writing by the advisor for African studies.

Requirements for the Specialization in African Studies¹

The student must complete the requirements for *one* of the three alternatives, A, B, or C. Each alternative consists of specified numbers of credits from two or three of the four sections that are described below: **General Core Courses; African Language Courses; Thematic Concentrations; and Independent Study, Research, and Fieldwork.**

A - BROAD ALTERNATIVE

A minimum of 21 credits to include:

- At least 9 credits from the General Core Courses section.
- At least 9 credits from the Thematic Concentrations section.
- These 9 credits must be from two of the thematic areas.
- At least 3 credits from the Independent Study, Research, and Fieldwork section.

B - LANGUAGE EMPHASIS ALTERNATIVE

A minimum of 20 credits to include:

- At least 9 credits from the General Core Courses section.
- At least 8 credits from the African Language Courses section.
- These 8 credits must be from courses in a single language, and study must extend over one full academic year.
- At least 3 credits from either the Thematic Concentrations section or the Independent Study, Research, and Fieldwork section.

C - LANGUAGE PROFICIENCY ALTERNATIVE:

A minimum of 25 credits to include:

- At least 9 credits from the General Core Courses section.
- At least 16 credits from the African Language Courses section.
- These 16 credits must be from courses in a single language, and study must extend over two full academic years.

1. General Core Courses

ANP	416	Anthropology of Southern Africa	3
ANP	450	African Archaeology	3
EC	414	Economic Analysis of Sub-Saharan Africa	3
ENG	363	African Literature	3
GEO	338	Geography of Africa	3
HST	360	African History to 1800	3
HST	361	African History since 1800	3
HST	484	Seminar in African History (W)	3
IAH	211A	Area Studies and Multicultural Civilizations: Africa (I) ²	4
IAH	211C	Area Studies and Multicultural Civilizations: The Americas (D) ²	4
ISS	330A	Africa: Social Science Perspectives (I) ²	4
ISS	330C	Latin America: Social Science Perspectives (I) ²	4
MC	324B	Regional Politics, Cooperation, and Conflict in Sub-Saharan Africa	4

CREDITS

MC	492	Senior Seminar in International Relations (W) ³	5
PLS	351	African Politics	3
2. African Language Courses⁴			
AFR	101A	Elementary Swahili I	4
AFR	101B	Elementary African Language I	4
AFR	102A	Elementary Swahili II	4
AFR	102B	Elementary African Language II	4
AFR	151	Beginning Individualized African Language I	4
AFR	152	Beginning Individualized African Language II	4
AFR	201A	Second Year Swahili I	4
AFR	201B	Second-Year African Language I	4
AFR	202A	Second Year Swahili II	4
AFR	202B	Second-Year African Language II	4
AFR	251	Intermediate Individualized African Language I	4
AFR	252	Intermediate Individualized African Language II	4
AFR	290	Independent Study	1 to 4
AFR	450A	Advanced Swahili	1 to 5
AFR	450B	Advanced African Language	1 to 5
AFR	490	Independent Study	1 to 4
ARB	101	Elementary Arabic I	4
ARB	102	Elementary Arabic II	4
ARB	201	Second-Year Arabic I	4
ARB	202	Second-Year Arabic II	4
ARB	290	Independent Study	1 to 4
ARB	490	Independent Study	1 to 4
3. Thematic Concentrations			
Cultural, Historical, and Linguistic Studies			
ANP	416	Anthropology of Southern Africa	3
ANP	417	Anthropology of East Africa	3
ANP	420	Language and Culture ³	3
ANP	450	African Archaeology	3
ANP	491	Topics in Anthropology ²	3
ENG	363	African Literature	3
ENG	463	Studies in the Literature of Africa and the African Diaspora	3
ENG	471	Third World Cinema	4
HA	204	Asian and African Art	4
HA	470	Art of West Africa	4
HA	471	Art of Central, Southern and Eastern Africa	3
HST	208	The African Experience	4
HST	360	African History to 1800	3
HST	361	African History since 1800	3
HST	362	West Africa 1500 to 1900	3
HST	363	East Africa since 1500	3
HST	364	Southern Africa since 1800	3
HST	484	Seminar in African History (W)	3
IAH	211A	Area Studies and Multicultural Civilizations: Africa (I) ²	4
ISS	310	People and Environment (I) ²	4
ISS	330A	Africa: Social Science Perspectives (I) ²	4
JRN	475	International News Media ³	3
PLS	351	African Politics	3
REL	491	Special Topics in Religious Studies ³	3
Ecology, Demography, and Agriculture			
ANP	491	Topics in Anthropology ³	3
ANS	480	Animal Systems in International Development ²	3
EEP	260	World Food, Population and Poverty ³	3
FOR	450	Forestry in International Development ³	3
FSM	462	Agricultural Development in Less Developed Countries ³	3
GEO	338	Geography of Africa	3
GEO	435	Geography of Health and Disease ³	3
ISS	310	People and Environment (I) ²	4
Socioeconomic Change and Development			
ANP	322	Peasants and Social Change in the Developing World ³	3
MC	324B	Regional Politics, Cooperation, and Conflict in Sub-Saharan Africa	4
PLS	351	African Politics	3
Conflict and Resolution in Africa			
MC	324B	Regional Politics, Cooperation, and Conflict in Sub-Saharan Africa	4
MC	390	Advanced Topics in Public Affairs ³	4
SOC	215	Race and Ethnicity ³	3
Studies in the African Diaspora			
ENG	463	Studies in the Literature of Africa and the African Diaspora	3
FRN	440	Francophone Cultures and Civilizations ³	3
HST	310	African American History to 1876	3
HST	311	African American History Since 1876	3
HST	312	African American Women	3
HST	383	History of the Caribbean since 1500	3
IAH	211C	Area Studies and Multicultural Civilizations: The Americas (D) ²	4
ISS	330C	Latin America: Social Science Perspective (I) ²	4
SOC	215	Race and Ethnicity ³	3
4. Independent Study, Research, and Fieldwork			
Three to 5 credits in a course that is related to one of the following activities:			

- a. a research paper based on library research on or field work in Africa (3 credits).
- b. community outreach activities on Africa-related projects in Michigan (3 credits).
- c. an internship or field work related to Africa, or study in Africa (3 to 5 credits).

¹ In certifying the completion of the requirements for the Specialization in African Studies, a given course shall be counted only once.

² Only *one* of the following courses may be used to satisfy the requirements for the Specialization in African Studies: Integrative Studies in Arts and Humanities 211A, 211C; Integrative Studies in Social, Behavioral, and Economic Sciences 310, 330A, 330C. That course may also be used to satisfy university requirements.

³ This course may be counted toward the requirements for the Specialization in African Studies **only** if the topic is specifically related to or focused on Africa *and* the undergraduate advisor for African studies has approved the counting of the related credits toward the requirements for the specialization.

⁴ In addition to courses in Swahili and Arabic, courses in Hausa are currently being offered.

Upon completion of the requirements for the Specialization in African Studies as specified by the undergraduate advisor for African studies, the student should contact that advisor and request certification for the completion of the specialization. After the certification is approved by the Dean of the College of Social Science, the Office of the Registrar will enter on the student's academic record the name of the specialization and the date that it was completed. This certification will appear on the student's transcript.

SPECIALIZATION IN ASIAN PACIFIC AMERICAN STUDIES

The Specialization 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 specialization 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 specialization appealing. 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 specialization is designed to focus 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 backgrounds. The specialization 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 specialization must contact the coordinator for the Specialization in Asian Pacific American Studies. The student's program of study for the specialization 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 specialization may also be used to satisfy the requirements for a bachelor's degree. Certain courses in the specialization 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 specialization. Some requirements may be fulfilled by other courses, if approved in advance by the coordinator of Asian Pacific American Studies. A list of approved courses is available from the coordinator.

Requirements for the Specialization in Asian Pacific American Studies

CREDITS
17 to 23

Students must complete:

1. **Core Courses** (8 or 9 credits)
 - a. The following course:

SSC 291	Introduction to Asian Pacific American Studies	1
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 - b. One of the following courses:

IAH 211C	Area Studies and Multicultural Civilizations: The Americas (D)	4
ISS 335	National Diversity and Change: United States (N)	4
 - c. One of the following courses:

ANP 330	Race, Ethnicity and Nation: Anthropological Approaches to Collective Identity	3
MC 281	Immigrants, Minorities, and American Pluralism	4
MC 385	Comparative Race and Ethnic Relations	4
SOC 215	Race and Ethnicity	3
2. Two of the following courses (6 to 9 credits):

ANP 434	Contemporary Issues in Asian America (D)	3
ANP 437	Asian Emigrant Communities: A Global Perspective	3
ENG 352	Asian American Writing	3
ENG 431A	Studies in Ethnic Film	4
ENG 464	Studies in the Literature of Asia and the Asian Diaspora (W)	3
FCE 442	Ethnic Minority Families in America	3
HST 319	Asian American History	3
MC 391	Selected Topics in Public Affairs	3
MC 498	Senior Seminar in Social Relations (W)	5
SOC 499	Social Issues and Change in Contemporary Society (W)	3
SW 492	Seminar in Social Work	3
WRA 444	Writing in American Cultures: The Dynamics and Rhetoric of Ethnicity	3
3. **Capstone and Enrichment Courses** (3 to 5 credits)

One of the following:

 - a. **Internship**

SSC 493	Social Science Internship	3
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The internship (or other approved internship) should focus on experiential learning related to the Asian Pacific American community. Any core faculty member affiliated with the specialization can supervise the internship.
 - b. **Heritage Courses** (3 to 5 credits)

Heritage courses focus on Asian populations in their countries of origin, rather than in a United States or other diasporic context outside of their homeland. A substantial amount of content is on Asia. An approved list of courses is available from the coordinator of the specialization.
 - c. **Asian Language Courses** (3 to 5 credits)

Only second-year and above Asian language courses will count toward the specialization. An approved list of courses is available from the coordinator of the specialization.

Other options such as study abroad, domestic study away courses, and independent study to conduct a research project are available if they are approved in advance by the coordinator of the specialization.

Upon completion of the requirements for the Specialization in Asian Pacific American Studies, the student should contact the Dean of the College of Social Science and request certification for the completion of the specialization. After the certification is approved by the Dean of the College of Social Science, the Office of the Registrar will enter on the student's academic record the name of the specialization and the date that it was completed. This certification will appear on the student's transcript.

SOCIAL SCIENCE
Specialization in Asian Studies

SPECIALIZATION IN ASIAN STUDIES

The Specialization 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 specialization 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 specialization 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 specialization 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 specialization with the permission of the Director of the Asian Studies Center and the student's advisor.

The Specialization in Asian Studies provides an opportunity for students to create a multidisciplinary specialty with Asia as the focus. The undergraduate advisor for Asian Studies, located in Room 110 International Center, 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 specialization must be approved in advance and in writing by the advisor for Asian Studies.

Requirements for the Specialization in Asian Studies¹

1. The student must complete <i>one</i> of the following options.		CREDITS
a.	Language Emphasis (32 to 35 credits):	
	Core - at least one course	3 or 4
	Chinese or Japanese language-fulfillment of second-year competency	20
	Thematic Concentration - at least two courses	6 to 8
	Independent study course culminating in a research paper	3
b.	General Emphasis (21 to 29 credits):	
	Core - at least one course	3 or 4
	Thematic Concentration - select <i>one</i> of the following:	
	(1) at least five courses in the Thematic Concentration selected from two different departments	15 to 20
	(2) at least three courses in the Thematic Concentration selected from two different departments <i>and</i> a maximum of 10 credits in an Asian language	15 to 22
	Independent study course culminating in a research paper	3
2.	The courses used to fulfill either option are listed below:	
a.	Core courses (select one):	
	IAH 211B Area Studies and Multicultural Civilizations: Asia (I) ²	4
	IAH 211C Area Studies and Multicultural Civilizations: The Americas (D) ²	4
	ISS 210 Society and Individual (D) ²	4
	ISS 315 Global Diversity and Interdependence (I) ²	4
	ISS 330B Asia: Social Science Perspectives (I) ²	4
	TE 311 Growing Up and Coming of Age in Three Societies (D)	3
b.	Language courses (see item 1. for credit requirement):	
	ASN 290 Independent Study	1 to 6
	ASN 291 Special Topics in Asian Languages	1 to 4
	ASN 401 East Asian Cultures (W)	3
	ASN 464 Studies in the Literature of Asia and the Asian Diaspora (W)	3
	ASN 490 Independent Study	1 to 6
	ASN 491 Special Topics in Asian Languages	1 to 6
	CHS 101 Elementary Chinese I ³	5
	CHS 102 Elementary Chinese II ³	5
	CHS 105 Introductory Chinese with Business Emphasis	5
	CHS 201 Second-Year Chinese I ³	5
	CHS 202 Second-Year Chinese II ³	5
	CHS 301 Third-Year Chinese I ³	4
	CHS 302 Third-Year Chinese II ³	4
	CHS 350 Studies in the Chinese Language	3
	CHS 401 Fourth-Year Chinese I ³	3
	CHS 402 Fourth-Year Chinese II ³	3
	CHS 499 Senior Thesis Research	1 to 4
	JPN 101 Elementary Japanese I ³	5
	JPN 102 Elementary Japanese II ³	5
	JPN 113 Elementary Japanese II A	3
	JPN 114 Elementary Japanese II B	3
	JPN 201 Second-Year Japanese I ³	5
	JPN 202 Second-Year Japanese II ³	5
	JPN 301 Third-Year Japanese I ³	4
	JPN 302 Third-Year Japanese II ³	4
	JPN 350 Studies in Japanese Language	3
	JPN 401 Fourth-Year Japanese I ³	3

JPN 402	Fourth-Year Japanese II ³	3
JPN 499	Senior Thesis Research	1 to 4
c.	Thematic Concentration courses (see item 1. for credit requirement):	
	Department of Anthropology	
ANP 201	Sociocultural Diversity ⁴	3
ANP 414	Anthropology of South Asia	3
ANP 415	China: Culture and Society	3
	Department of Art and Art History	
HA 260	East Asian Art	3
HA 462	The Arts of China	4
HA 463	Japanese Art	4
	Department of Economics	
EC 340	Survey of International Economics ⁴	3
EC 385	International Labor Market Policy and Labor Relations ⁴	3
EC 410	Issues in Economics of Developing Countries ⁴	3
EC 413	Economic Analysis of Asia	3
	Department of English	
ENG 130	Film and Society ⁴	3
ENG 352	Asian American Writing	3
ENG 360	Postcolonial Literature and Theory ⁴	3
ENG 361	Asian Literature in English or in English Translation	3
ENG 431B	Third World Cinema	4
ENG 436B	Comparative Fiction: Non-Western ⁴	3
ENG 464	Studies in the Literature of Asia and the Asian Diaspora (W)	3
	Department of Geography	
GEO 337	Geography of East Asia	3
	Department of History	
HST 201	Historical Methods and Skills	3
HST 201H	Historical Methods and Skills for Honors Students	3
HST 209	Traditional East Asia	4
HST 210	Modern East Asia	4
HST 319	Asian American History	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 393	History of India	3
HST 451	Special Topics in Asian History	4
HST 485	Seminar in Asian History (W)	3
	Department of Human Environment and Design	
HED 465	International Consumer Distribution Systems ⁴	3
HED 471	International Buying and Product Development ⁴	3
	James Madison College	
MC 220	International Relations I: World Politics and International Security ⁴	4
MC 320	Politics, Society and Economy in the Third World ⁴	4
MC 324D	Regional Politics, Cooperation and Conflict in Asia	4
MC 492	Senior Seminar in International Relations ⁴ (W)	5
	School of Music	
MUS 425	Music of South Asia and Its Diaspora	2
MUS 429	Music of East and Southeast Asia	2
	Department of Political Science	
PLS 342	Comparative Political Economy ⁴	3
PLS 344	Politics in the Third World ⁴	3
PLS 353	Politics of Japan	3
PLS 354	Politics of Asia	3
	Department of Religious Studies	
REL 330	Islam	4
REL 340	Hinduism	4
REL 350	Buddhism in South Asia	3
REL 355	Southeast Asian Religions	3
	Women's Studies Program	
WS 403	Women and Change in Developing Countries	3
WS 491	Special Topics	3
d.	Independent Study (3 credits):	
	At least 3 credits of an independent study course approved in advance by the undergraduate advisor for Asian Studies. While enrolled in this course, the student must submit a substantial senior research paper on Asia based on primary sources, library research, or field work in Asia.	

¹ With the approval of the undergraduate advisor for Asian Studies, courses other than those listed below may be counted toward the requirements for the Specialization in Asian Studies.

² This course may also be used to satisfy university requirements.

³ In order for Chinese or Japanese language courses to be counted toward the requirements for the Specialization in Asian Studies, the student must complete two sequential courses in a language. A maximum of 10 credits in Chinese or Japanese language courses may be used to satisfy the requirements for the General Emphasis.

⁴ Allowable when taught with substantial Asian content.

Upon completion of the requirements for the Specialization in Asian Studies as specified by the undergraduate advisor for Asian studies, the student should contact that advisor and request certification for the completion of the specialization. After the certification is approved by the Dean of the College of Social

Science, the Office of the Registrar will enter on the student's academic record the name of the specialization and the date that it was completed. This certification will appear on the student's transcript.

SPECIALIZATION IN CANADIAN STUDIES

The Specialization in Canadian Studies is designed for students who plan careers with an international orientation focused on inter-American relations involving Canada. The specialization provides an opportunity for students to increase their understanding of:

1. the processes of social, economic, political, and cultural change in Canada and in Canada's international relations.
2. how the structure of the contemporary world system influences Canadian affairs.
3. how culture shapes the process of national development in one of the major world regions.

Multidisciplinary in theory and practice, the specialization is based on the methodologies, theories, and literatures of the social sciences and liberal arts. It involves faculty from the social sciences, arts, languages, and applied professional fields.

The specialization is available as an elective to students who are enrolled in bachelor's degree programs at Michigan State University. The specialization is administered by the College of Social Science.

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

Students who elect the specialization are encouraged to study French or another language spoken by a significant minority in Canada.

The academic advisor for Canadian studies in the College of Social Science, located in Room 205 South Kedzie Hall, coordinates the specialization on behalf of the Dean. That advisor 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 specialization must be approved **in advance and in writing** by both the advisor for Canadian studies and the Associate Dean for Academic and Student Affairs in the College of Social Science.

Requirements for the Specialization in Canadian Studies

The student must complete a minimum of 18 credits at the 200 level or above, distributed as follows:

- | | CREDITS |
|--|---------|
| 1. Core courses: | 10 |
| a. The following course: | |
| ISS 336 Canada: Social Science Perspectives (I) | 4 |
| Integrative Studies in Social, Behavioral and Economic Sciences 336 may be used to satisfy both the requirements for the Specialization in Canadian Studies and university requirements. | |
| b. Six credits from the following courses: | |
| ENG 465 Canadian Literature | 3 |
| GEO 230 Geography of United States and Canada | 3 |
| HST 329 History of Canada | 3 |
| 2. Eight additional credits in courses relevant to Canadian studies including 4 credits related to one of the following options: | |
| a. A study abroad experience. | |
| b. An internship with a public or private sector agency or organization. | |

Upon completion of the requirements for the Specialization in Canadian Studies as approved by both the advisor for Canadian studies and the Associate Dean in the College of Social Science, the student should contact the advisor for Canadian studies and request certification for the completion of the specialization. After the certification is approved by the Dean of the College of Social Science, the Office of the Registrar will enter on the student's academic record the name of the specialization and the date that it was completed. This certification will appear on the student's transcript.

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 |
| <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 |
| SSC 499 Directed Research in Interdisciplinary Studies in Social Science (W) | 3 |

Upon completion of the requirements for the Specialization in Gender and Global Change as approved by both the Director of Women and International Development and the Associate Dean in the College of Social Science, the student should contact the Director of Women and International Development and request

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Specialization in Gender and Global Change

certification for the completion of the specialization. After the certification is approved by the Dean of the College of Social Science, the Office of the Registrar will enter on the student's academic record the name of the specialization and the date that it was completed. This certification will appear on the student's transcript.

SPECIALIZATION IN INTERNATIONAL DEVELOPMENT

The Specialization in International Development, 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 specialization should be attractive to students who plan careers with an international orientation and who, therefore, wish to add a strong international 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 specialization may also be used to satisfy the requirements for the bachelor's degree.

The Specialization in International Development 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, Eastern Europe, and Latin America. The specialization provides an opportunity for students to learn how the structure of the contemporary world system influences international relations and national development, as well as how culture shapes the process of national development in one of the major world regions. Multidisciplinary in theory and practice, the specialization is based on the methodologies, theories, and literatures of the social sciences and liberal arts and involves faculty from the social sciences, arts, languages, and applied professional fields.

The academic advisor for international development in the College of 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 specialization must be approved in advance and in writing by the advisor for international development.

Requirements for the Specialization in International Development

The student must meet the requirements specified below:

- | | | |
|----|--|---------|
| | | CREDITS |
| 1. | Complete a minimum of 18 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 18 credits may be in 200-level courses. | |
| 2. | 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. | |
| 3. | Conceptual/Descriptive Courses: Complete at least one of the following courses (3 or 4 credits): | |
| | ANP 322 Peasants and Social Change in the Developing World | 3 |
| | ANP 470 Food, Hunger, and Society | 3 |
| | EC 410 Principles of Economic Development | 3 |
| | EEP 260 World Food, Population and Poverty | 3 |
| | ISS 315 Global Diversity and Interdependence (I) | 4 |
| | MC 320 Politics, Society and Economy in the Third World | 4 |
| | PLS 344 Politics in the Third World | 3 |
| | SOC 362 Developing Societies | 3 |
| 4. | Applied Courses: Complete at least one of the following courses that is a field other than the student's major (2 or 3 credits): | |
| | ANP 370 Culture, Health, and Illness | 3 |
| | ANR 481 Agricultural Research Systems in Developing Countries | 2 |
| | ANS 480 Animal Systems in International Development | 3 |

- | | | | |
|---------------------------------|--|---|---|
| EC | 411 | Issues in Economic Development | 3 |
| FOR | 450 | Forestry in International Development | 3 |
| FSM | 462 | Agricultural Development in Less Developed Countries | 3 |
| GEO | 435 | Geography of Health and Disease | 3 |
| GEO | 445 | Environment and Development Policy | 3 |
| PLS | 342 | Comparative Political Economy | 3 |
| SOC | 452 | Environment and Society | 3 |
| UP | 408 | Comparative Urban Development Planning | 3 |
| WS | 403 | Women and Change in Developing Countries | 3 |
| 5. | International Area 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 | 417 | Anthropology of East Africa | 3 |
| EC | 414 | Economic Analysis of Sub-Saharan Africa | 3 |
| GEO | 338 | Geography of Africa | 3 |
| HST | 208 | The African Experience | 4 |
| HST | 361 | African History since 1800 | 3 |
| HST | 364 | Southern Africa since 1800 | 3 |
| HST | 373 | The Middle East 1250-1914 | 3 |
| HST | 484 | Seminar in African History (W) | 3 |
| ISS | 330A | Africa: Social Science Perspectives (I) | 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 |
| PLS | 351 | African Politics | 3 |
| Asia | | | |
| ANP | 413 | Cultures of Southeast Asia | 3 |
| ANP | 414 | Anthropology of South Asia | 3 |
| ANP | 415 | China: Culture and Society | 3 |
| EC | 413 | Economic Analysis of Asia | 3 |
| GEO | 337 | Geography of East Asia | 3 |
| HST | 368 | China since 1900 | 3 |
| HST | 485 | Seminar in Asian History (W) | 3 |
| ISS | 330B | Asia: Social Science Perspectives | 4 |
| MC | 324D | Regional Politics, Cooperation and Conflict in Asia | 4 |
| PLS | 354 | Politics of Asia | 3 |
| Eastern Europe | | | |
| EC | 406 | Economic Analysis of the Soviet Union and Transition Economy | 3 |
| HST | 342 | Eastern Europe | 3 |
| HST | 344 | Russia and the Twentieth Century | 3 |
| Latin America and the Caribbean | | | |
| ANP | 410 | Revolution and Social Change in Latin America | 3 |
| EC | 412 | Economic Analysis of Latin America | 3 |
| GEO | 335 | Geography of Latin America | 3 |
| HST | 381 | Latin America since 1820 | 3 |
| HST | 382 | History of Brazil since 1822 | 3 |
| HST | 384 | History of Mexico since 1810 | 3 |
| HST | 385 | Modern Spanish Central and South America | 3 |
| HST | 486 | Seminar in Latin American History (W) | 3 |
| ISS | 330C | Latin America: Social Science Perspectives (I) | 4 |
| MC | 324C | Regional Politics, Cooperation, and Conflict in Latin America and the Caribbean | 4 |
| 6. | Field Experience, Internship, Thesis, or Independent Study (3 or 4 credits): Complete one of the following three options: | | |
| | a. | An overseas field experience or internship in one of the four geographic areas listed in item 5. above. | |
| | b. | A domestic internship that involves working on local development issues. | |
| | c. | A thesis or independent study under the direction of a faculty member. | |
| 7. | Senior-level Seminar or Capstone Course (3 or 4 credits). Complete one course with significant international development content. | | |

Only **one** of the following four courses may be used to satisfy the requirements for the international development specialization: Integrative Studies in Social, Behavioral, and Economic Sciences 315, 330A, 330B, or 330C. That course may also be used to satisfy university requirements.

Upon completion of the requirements for the Specialization in International Development as specified by the undergraduate advisor for international development, the student should contact the Dean of the College of Social Science and request certification for the completion of the specialization. After the certification is approved by the Dean of the College of Social Science, the Office of the Registrar will enter on the student's academic record the name of the specialization and the date that it was completed. This certification will appear on the student's transcript.

SPECIALIZATION IN LATIN AMERICAN AND CARIBBEAN STUDIES

The Specialization 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. Although the specialization complements a number of major fields, students who plan graduate study related to Latin America and the Caribbean, or who wish to pursue careers in the Foreign Service or with corporations in those geographic areas, may find the specialization 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 specialization may also be used to satisfy the requirements for the bachelor's degree.

The Specialization in Latin American and Caribbean Studies provides an opportunity for students to create a multidisciplinary specialty with Latin America and the Caribbean as the focus.

The undergraduate advisor for Latin American and Caribbean studies in the College of Social Science, located in Room 300 International Center, 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 specialization must be approved in advance and in writing by the undergraduate advisor for Latin American and Caribbean studies.

Requirements for the Specialization in Latin American and Caribbean Studies

The student must complete a total of 24 credits as specified below:

	CREDITS
1. Demonstrate proficiency in Spanish or Portuguese equivalent to two years 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.	
2. Complete a minimum of 14 credits in courses from at least <i>three</i> of the departments listed below:	
Department of Anthropology	
ANP 410 Revolution and Social Change in Latin America	3
ANP 453 Mesoamerican Archaeology	3
Department of Art and Art History	
HA 444 Latin American and Latino Art	3
Department of Economics	
EC 412 Economic Analysis of Latin America	3
Department of Geography	
GEO 335 Geography of Latin America	3
Department of History	
HST 380 Colonial Latin America	3
HST 381 National Latin America	3
HST 382 Modern Brazil	3
HST 383 The Caribbean	3
HST 384 Modern Mexico	3
HST 385 Modern Spanish Central and South America	3
HST 486 Seminar in Latin American History	3
Integrative Studies in Arts and Humanities	
IAH 211C Area Studies in the Americas	4
Integrative Studies in the Social, Behavioral and Economic Sciences	
ISS 330C Latin America: Social Science Perspectives	4
James Madison College	
MC 324C Regional Politics, Cooperation, and Conflict in Latin America and the Caribbean	4
School of Journalism	
JRN 391 Current Issues in Journalism	3
To be counted toward the requirements for the specialization, the content of Journalism 391 must be specifically related to or focused on Latin America or the Caribbean.	
School of Music	
MUS 430 Music of the Caribbean	2
Department of Political Science	
PLS 352 Latin American Politics	3
Department of Spanish and Portuguese	
PRT 340 Topics in Luso-Brazilian Language and Culture	3
SPN 432 Latin America and its Literature	3
SPN 472 Topics in Literature of the Americas	3
3. Complete at least 6 additional credits from the courses listed in item 2. above or with the approval of the undergraduate advisor for Latin American and Caribbean studies, other courses having substantial Latin American or Caribbean content may be used to satisfy this requirement.	

- Complete at least 4 credits of advanced study courses approved by the undergraduate advisor for Latin American and Caribbean Studies. At least 2 credits of advanced study must be earned through enrollment in Anthropology 491 Latin American and Caribbean Studies Seminar. An additional 2 credits may be completed by repeating Anthropology 491 or completion of advanced study such as independent study, research, or guided reading.

Upon completion of the requirements for the Specialization in Latin American and Caribbean Studies as specified by the undergraduate advisor for Latin American and Caribbean studies, the student should contact the Dean of the College of Social Science and request certification for the completion of the specialization. After the certification is approved by the Dean of the College of Social Science, the Office of the Registrar will enter on the student's academic record the name of the specialization and the date that it was completed. This certification will appear on the student's transcript.

SPECIALIZATION IN CHICANO/LATINO STUDIES

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

The Specialization 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 specialization draws on research, teaching, and community service among Chicano/Latinos that:

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

Students wishing to be advised should consult the Director of the Chicano/Latino specialization in 200 S. Kedzie Hall. The Director, in conjunction with the advisor, 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 specialization must be approved **in advance and in writing** by both the advisor for Chicano/Latino studies and the Associate Dean for Academic and Student Affairs in the College of Social Science.

Requirements for the Specialization in Chicano/Latino Studies

	CREDITS
The student must complete a total of 20 credits including:	
1. Both of the following courses:	8
IAH 211C Area Studies and Multicultural Civilizations: The Americas (D)	4
ISS 335 National Diversity and Change: United States (N)	4
These courses must focus on Chicano/Latino content.	
2. Three of the following courses:	9
ANP 412 Social and Cultural Status of Latinos in the U.S.	3

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Specialization in Chicano/Latino Studies

ENG	351	Chicano and Latino Literatures in English.	3
FCE	442	Ethnic Minority Families in America	3
HST	327	History of Mexican Americans in the United States	3
HST	383	The Caribbean	3
HST	385	Modern Spanish Central and South America	3
SOC	215	Race and Ethnicity	3
SPN	345	Spanish American Culture	3
SPN	346	Hispanic Cultures in the United States	3
SPN	485	Topics in Hispanic Literatures of the Americas	3

This requirement may be fulfilled by other courses with a Chicano/Latino focus, if approved in advance by the Coordinator of Chicano/Latino studies and the advisor. 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. Typically, courses in the College of Agriculture and Natural Resources, Arts and Letters, and Social Science are used to satisfy the requirement. A list of approved courses is available from the advisor.

3. One of the following three options: 3

- A supervised internship 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 Coordinator and the advisor for Chicano/Latino studies.
- 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 Coordinator and the advisor for Chicano/Latino studies.
- A research experience 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 Associate Dean in the College of Social Science.

Upon completion of the requirements for the Specialization in Chicano/Latino Studies as approved by the Director and the advisor, and the Associate Dean of the College of Social Science, the student should contact the advisor for Chicano/Latino studies and request certification for the completion of the specialization. After the certification is approved by the Dean of the College of Social Science, the Office of the Registrar will enter on the student's academic record the name of the specialization and the date that it was completed. This certification will appear on the student's transcript.

SPECIALIZATION IN PEACE AND JUSTICE STUDIES

The Specialization 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 specialization is devoted to analyzing the causes and manifestations of violence, war, oppression, and injustice and to studying and working toward theoretical and practical alternatives, locally and globally, to create a more peaceful and just world. The specialization complements a wide range of majors and is especially suited for students who plan to include peace and justice issues in their study of law, in international service, or as a member of society.

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

The Specialization in Peace and Justice Studies includes course work, a capstone paper, and electives such as an internship, study abroad, service learning, and independent study. Students in this specialization will focus on the exploration of such interdisciplinary topics as environmental justice, representative democracy and globalism, morality and ethics, conflict resolution, human rights and humanitarian law.

The undergraduate advisor for the Peace and Justice specialization is located in the College of Social Science and will assist the student in planning a program of study tailored to the student's interests, major, and career objectives. The undergraduate advisor for the specialization must approve the student's program of study in writing.

Requirements for the Specialization in Peace and Justice Studies

All courses must be approved by the undergraduate advisor for Peace and Justice Studies before enrollment.

- The student must complete the following (15 credits):
 - Core Course** (3 credits). One 400-level course 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.
 - Complete the following (12 credits):
 - At least nine credits at the 300-400 level.
 - at least three of these credits must be in a subject outside the student's major.
 - Two courses focusing on themes of violence and domination and/or justice and domination.
 - Capstone Paper**. This paper may derive from one of the courses completed for requirements 1.a. or 1.b. It is intended to synthesize themes the student examined in the specialization. A faculty member affiliated with the Specialization in Peace and Justice Studies must approve the paper and inform the undergraduate advisor for Peace and Justice Studies of its satisfactory completion.
 - Electives**. (1 to 3 credits) An internship, study abroad course, service learning option or independent study. These may be counted toward requirement 1.b. above.

Upon completion of the requirements for the Specialization in Peace and Justice Studies, the student should contact the undergraduate advisor for Peace and Justice Studies and request certification for the completion of the specialization. After the certification is approved by the Dean of the College of Social Science, the Office of the Registrar will enter on the student's academic record the name of the specialization and the date it was completed. This information will appear on the student's transcript.

TEACHER CERTIFICATION OPTIONS

Teacher certification can be attained through the Child Development, Economics, History, or Interdisciplinary Studies in Social Science (IDS) major. Students who elect the IDS major for teacher certification must contact the Interdisciplinary Studies in Social Science office; those who elect the Economics major must contact the Department of Economics.

The following minors in the College of Social Science also are available for teacher certification: anthropology, 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 Labor Relations and Human Resources, 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 programs are co-sponsored by the College of Social Science and Michigan State University-College of Law: M.A. in Political Science and J.D., Ph.D. in Political Science and J.D., Master of Labor Relations and Human Resources and J.D.

For information about the following interdisciplinary specializations 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 for all master's and doctoral students at Michigan State University (see statement on this specialization in the *Department of Sociology* section)
- (2) Interdepartmental Specialization in Applied Developmental Science, for master's or doctoral students in anthropology, geography, political science, psychology, sociology, or a MSW program in the School of Social Work (see statement on this specialization, below)
- (3) 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 (see statement on this specialization, below)
- (4) Specialization in International Development, for all master's or doctoral students at Michigan State University (see statement on this specialization, below)
- (5) Interdepartmental Specialization in Cognitive Science, for master's or doctoral students in Geography or Psychology (see statement on this specialization, below)
- (6) 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)
- (7) 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)
- (8) 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)
- (9) Graduate Specialization in Global Urban Studies, for doctoral students enrolled in doctoral degree programs at Michigan State University (see statement on this specialization below)

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

- (1) Interdepartmental Graduate Specialization in Ecology, Evolutionary Biology and Behavior for master's students in Anthropology or Psychology (see statement on this specialization in the *College of Natural Science* section)
- (2) 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)
- (3) Specialization in Food Safety for master's students in Sociology (see statement on this specialization in the *College of Veterinary Medicine* section)

- (4) Interdepartmental Ph.D. degree program in Neuroscience (see statement on this doctoral program in the *College of Natural Science* section)
- (5) 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)
- (6) Interdisciplinary Graduate Specialization in Women and Gender, which is administered by the Women's Studies Program, for master's or doctoral students (see statement on this specialization in the *College of Arts and Letters* section)
- (7) Master of Arts degree program in Bioethics, Humanities, and Society (see statement on this master's program in the College of Human Medicine section)
- (8) Graduate Specialization in Food and Agricultural Standards for master's and doctoral students enrolled in master's and doctoral degree programs at Michigan State University (see statement on this specialization, below)

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

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

1.	Students must complete 30 credits from the following:	CREDITS
a.	All of the following courses:	
	SSC 810 Introduction to Chicano/Latino Studies I	3
	SSC 811 Introduction to Chicano/Latino Studies II	3
	SSC 893E Readings in Chicano/Latino Studies	1 to 4
	SSC 894 Chicano/Latino Studies Fieldwork	1 to 4
	SSC 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 SSC 999 Doctoral Dissertation Research.
- 5. Submit the dissertation proposal to the guidance committee and successfully pass the oral examination in defense of the dissertation.

**CENTER for
 INTEGRATIVE STUDIES
 in SOCIAL SCIENCE**

Thomas Summerhill, 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

UNDERGRADUATE PROGRAM

The global and area studies-social science major focuses on the study of global systems and processes as they are expressed in local places. The major offers concentrations in world regions and global topics. World region concentrations include African studies, Asian studies, European studies, Latin American and Caribbean studies, and Russian and Eurasian studies. Global topical concentrations include gender and global change, and international development.

In this major, students select a concentration to gain knowledge of a particular world region and a foreign language relevant to that region or of a global theme that is important across world regions. 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. The major also requires a disciplinary cognate that introduces students to the major theories and research methods of one discipline in the social sciences and its perspective and applicability to global and area studies.

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.

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 Bachelor of Arts or Bachelor of Science Degree in Global and Area Studies

- 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 Global and Area Studies-Social Science.
 The University's Tier II writing requirement for the Global and Area Studies major is met by completing one of the following courses as specified below:
 African Studies: One of the following courses: History 484, Political Science 461, or Social Science 499.
 Asian Studies: One of the following courses: History 485 or Political Science 460.
 Latin American and Caribbean Studies: One of the following courses: Geography 432 or History 486.
 European Studies: One of the following courses: History 482 or 483, or Political Science 440 or 460.
 Russian and Eurasian Studies: One of the following courses: History 483 or Political Science 460.
 Gender and Global Change: One of the following courses: Geography 432, Political Science 461 or Social Science 499.
 International Development: One of the following courses: Geography 432 or Social Science 499.
 Credits applied toward the general education Integrative Studies requirement cannot be counted toward the total credits of the major or concentrations in the major. With the approval of a Global and Area Studies-Social Science advisor, students who change their major to Global and Area Studies-Social Science, or who seek to add Global and Area Studies-Social Science as an additional major, may request that courses used to fulfill the Integrative Studies requirement of the previous major be applied towards the completion of the Integrative Studies requirement for the Global and Area Studies-Social Science major.
- The requirements of the College of Social Science for the Bachelor of Arts or Bachelor of Science degree. Students must choose from a list of approved courses available in the Center for Integrative Studies in Social Science in the College of Social Science.
- Complete 6 to 8 credits of introductory and survey courses. Students must select two courses, one lower division and one upper division from a list available from the Global and Area Studies-Social Science advisor. One course must be in a discipline in the College of Social Science. No more than one course may be at the 100-level and no more than one may be from the same discipline. Courses used to satisfy the introductory and survey course requirement may not also be used to meet the requirements of a concentration.

- Complete one of the following world region or global topical concentrations (minimum of 24 credits). The student's concentration must be approved by the Global and Area Studies-Social Science advisor.

World Region Concentrations

Each of the five world region concentrations requires second-year competency in a foreign language relevant to that region. Students may fulfill this language requirement by successfully completing Michigan State University courses or equivalent courses or language study at an approved intensive summer institute or approved study abroad program. 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 the Global and Area Studies-Social Science advisor to discuss placement.

African Studies

Students must complete a minimum of 24 credits of non-language courses selected from the following:

- Both of the following courses (8 credits):
 IAH 211A Area Studies and Multicultural Civilizations: Africa (I) 4
 ISS 330A Africa: Social Science Perspectives (I) 4
 Students who have completed one or both of these courses to fulfill their Integrative Studies requirement should select courses from the list of courses in items 2. and 3. in order to complete a minimum of 24 credits that can be counted toward the concentration.
- Complete a minimum of 8 to 10 credits in three courses with not more than two courses in one of the following: anthropology, economics, English, geography, history, James Madison College, music, political science, or religious studies.
- Complete a minimum of 6 to 8 credits in two elective courses from a list maintained by the Global and Area Studies-Social Science advisor. Students must obtain approval from the Global and Area Studies-Social Science advisor before enrolling in any elective courses to ensure sufficient focus on Africa.
- Students must complete a 3-credit capstone experience including the writing of a research paper, via an independent study with a faculty member of the African Studies Center. The paper may be based on experience in a study abroad program, internship, or other experience in an African country. With approval of the Global and Area Studies-Social Science advisor, this requirement may be fulfilled by enrolling in Social Science 499.

Asian Studies

Students must complete a minimum of 24 credits of non-language courses selected from the following:

- One of the following courses (8 credits):
 IAH 204 Asia and the World (I) 4
 IAH 211B Area Studies and Multicultural Civilizations: Asia (I) 4
 ISS 330B Asia: Social Science Perspectives (I) 4
 Students who have completed one or both of these courses to fulfill their Integrative Studies requirement should select courses from the list of courses in item 2. in order to complete a minimum of 24 credits that can be counted toward the concentration.
- Complete a minimum of 13 credits in five elective courses from a list maintained by the Global and Area Studies-Social Science advisor. At least two of the courses must be at the 300-level or above. Students must obtain approval from the Global and Area Studies-Social Science advisor before enrolling in any elective courses to ensure sufficient focus on Asia.
- Students must complete a 3-credit capstone experience including the writing of a research paper, via an independent study with a faculty member of the Asian Studies Center. The paper may be based on experience in a study abroad program, internship, or other experience in an Asian country.

Latin American and Caribbean Studies

Students must complete a minimum of 24 credits of non-language courses selected from the following:

- Two of the following courses (8 credits):
 IAH 203 Latin America and the World (I) 4
 IAH 211C Area Studies and Multicultural Civilizations:
 The Americas (D) 4
 ISS 330C Latin America: Social Science Perspectives (I) 4
 Students who have completed one or both of these courses to fulfill their Integrative Studies requirement should select courses from the list of courses in items 2. and 3. in order to complete a minimum of 24 credits that can be counted toward the concentration.
- Complete a minimum of 8 to 10 credits in three courses with not more than two courses in one of the following: anthropology, Arts and Letters, economics, history, history of art, Integrative Studies in Arts and Hu-

SOCIAL SCIENCE

Global and Area Studies-Social Science

manities, Integrative Studies in Social, Behavioral and Economic Sciences, James Madison College, journalism, music, political science, Portuguese, or Spanish.

3. Complete a minimum of 6 to 8 credits in two elective courses from a list maintained by the Global and Area Studies-Social Science advisor. Students must obtain approval from the Global and Area Studies-Social Science advisor before enrolling in any elective courses to ensure sufficient focus on Latin America.
4. Students must complete 2 credits by enrolling in Social Science 490 Special Topics in Social Science, section on Latin America and Caribbean Studies seminar.

European Studies

Students must complete a minimum of 24 credits of non-language courses selected from the following:

1. Social Science requirement (minimum of 9 credits). Students must see the Global and Area Studies-Social Science advisor for an approved listing of courses and must complete a minimum of three courses from at least two disciplines.
2. Humanities requirement (minimum of 9 credits). Students must see the Global and Area Studies-Social Science advisor for an approved listing of courses and must complete a minimum of three courses from at least two disciplines.
3. Students must complete a 3-credit capstone experience via an independent study by submitting a research paper on a topic related to Europe, via study abroad by submitting a research paper completed as part of an Michigan State University study abroad program in Europe, via an internship by submitting a research paper completed as part of a Michigan State University approved field experience or internship related to Europe, or by completing a capstone course including submission of a research paper on Europe completed as part of the course. The students capstone experience must be approved by the Global and Area Studies-Social Science advisor.

Russian and Eurasian Studies

Students must complete a minimum of 24 credits of non-language courses selected from the following:

1. Social Science requirement (minimum of 9 credits). Students must see the Global and Area Studies-Social Science advisor for an approved listing of courses and must complete a minimum of three courses from at least two disciplines.
2. Humanities requirement (minimum of 9 credits). Students must see the Global and Area Studies-Social Science advisor for an approved listing of courses and must complete a minimum of three courses from at least two disciplines.
3. Students must complete a 3-credit capstone experience via independent study by submitting a research paper on a topic related to Russia or Eurasia, via study abroad by submitting a research paper completed as part of an Michigan State University study abroad program in Russia or Eurasia, via an internship by submitting a research paper completed as part of a Michigan State University approved field experience or internship related to Russia or Eurasia, or by completing a capstone course including submission of a research paper on Russia or Eurasia completed as part of the course. The students capstone experience must be approved by the Global and Area Studies-Social Science advisor.

Global Topical Concentrations

Each global topical concentration requires significant foreign language or international experience. Students may choose (1), (2), or (3) as follows: (1) second-year competency in a relevant foreign language. Students may fulfill this language requirement by successfully completing Michigan State University courses or equivalent courses or language study at an approved intensive summer institute or approved study abroad program. 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 the Global and Area Studies-Social Science advisor to discuss placement; (2) a period of study, internship, or research experience in one or more developing countries, either a one-semester program or two programs of at least five weeks each, with a faculty sponsor. Students must consult the Global and Area Studies-Social Science advisor in advance to determine how the experience might meet the requirement of this concentration; (3) beginning-level competency in a foreign language by placing into a 200-level language course and an experience in a developing country of at least five weeks. Students must see the Global and Area Studies-Social Science advisor for a list of eligible developing countries.

Gender and Global Change

Students must complete a minimum of 24 credits of non-language courses selected from the following:

1. Complete a minimum 8 to 10 credits in three courses with not more than two in one of the following: anthropology, James Madison College, sociology, or women's studies. At least one course must be at the 300-level or above.
2. Complete four courses from one of the five following themes: Gender, Health, and Hunger; Gender and Environment; Global Feminisms; Gender, Nation, and Democracy; or Gender and Human Rights. An approved listing of courses is available from the Global and Area Studies-Social Science advisor.
3. Complete 3 credits of Social Science 499 Directed Research in Interdisciplinary Studies in Social Science (W) to fulfill the capstone requirement.

International Development

Students must complete a minimum of 24 credits of non-language courses selected from the following:

1. Complete a minimum of 8 to 10 credits in three courses with not more than two in one of the following: anthropology, economics, environmental economics and policy, geography, James Madison College, political science, sociology, or women's studies. At least two courses must be at the 300-level or above.
2. Complete four elective courses from a list maintained by the Global and Area Studies-Social Science advisor. No more than two of the courses may be in the same discipline.
3. Complete 3 credits of Social Science 499 Directed Research in Interdisciplinary Studies in Social Science (W) to fulfill the capstone requirement.

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. Many faculty in the college participate in interdisciplinary research focused on scholarly and public concerns shared by several related disciplines. For these reasons, the college offers a broadly based, coherent, multidepartmental, undergraduate major in interdisciplinary social science.

The interdisciplinary studies in social science major consists of 42 required credits including 24 credits in one of the majors referenced below and an 18-credit disciplinary cognate. The following disciplinary cognates are available to students in the major: anthropology, economics, geography, history, political science, psychology, or sociology.

1. **Community Relations.** Students investigate the organizational, environmental, cultural, public policy, and socioeconomic forces that define, characterize, shape, and reshape contemporary communities. This major is designed for students who plan to pursue careers or advanced study in public and municipal administration, human services, social work, and urban planning.
2. **Environmental Policy.** Students pursue a wide variety of interests including environmental law, resource ecology, social impact study, policy analysis, geomorphology, and natural resource development and management.

Students may elect to participate in Michigan State University's living-learning environmental studies residential program. Students in this program enroll in numerous

courses on the environment. They also participate in a variety of academic enrichment and social activities with faculty who are associated with the program.

3. **Health Studies.** Students explore areas of interest such as organizational and institutional analysis of health care providers and delivery systems, social-cultural dimensions of health care, and the economics of health care. This major is designed for students who plan to pursue careers or advanced study in medicine, allied health fields, public health, medical industries, health care administration, and public administration.
4. **Human Aging.** Students study demographic shifts in the United States that have led to a population growing ever older. As Americans live longer, they often require more health-related services and other kinds of services in contrast to younger people. This major is designed for students who plan careers related to the direct care of older persons. Sites for direct care include nursing homes, hospitals, senior citizen community centers, and retirement communities.
5. **Human Resources and Society.** Students pursue interests in the dynamics of human resources in, and other social and behavioral factors related to, the study of the workplace and the community. Issues such as inequality, pluralism, race, ethnicity, and gender are addressed.
6. **International Studies.** Students pursue interests in international relations, international economic and social development, selected major world areas, or other topical and thematic issues in which the social sciences contribute understanding to concerns involving several nations and the comparative study of societies and cultures around the world.
7. **Law and Society.** Students may emphasize preparation for law school, for graduate study, for careers related to law and the justice system, or for careers in the public, private, and nonprofit sectors.
8. **Public Policy Studies.** Students examine public policy issues and concerns from several analytical and theoretical perspectives. They also examine policy-making processes in a variety of organizational contexts. This major is designed for students who plan to pursue policy-related careers in the public, private, and nonprofit sectors. The major is also designed for students who plan to pursue advanced degrees in public policy, public administration, urban planning, and law. Particular emphasis is placed on analytical, quantitative, and research design skills.

Business Emphasis. An optional emphasis in business within the interdisciplinary social science major is available. For additional information, refer to the statement on the Business Emphasis listed below.

Academic advisors in the college's Interdisciplinary Studies office assist students in developing individualized programs of study, taking into consideration students' interests and career or educational objectives. Students are required to consult with one of these academic advisors on enrollment in the major and once a year thereafter. Each student's program of study, and any changes in the program, must be approved in writing by an academic advisor in the Interdisciplinary Studies office.

To meet the requirements of the major, students select courses from extensive lists of courses that are periodically reviewed and revised by college faculty. Those lists are available in the Interdisciplinary Studies office.

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 *one* of the Tier II writing courses that are identified in item a. below or *one* of the clusters of courses that are identified in item b. below. The course or cluster must be included in the student's **Major** or **Disciplinary Cognate** referenced below:

- a. One of the following Tier II writing courses: Geography 432, History 480, 481, 482, 483, 484, 485, 486, 487, 488; Political Science 420, 421, 440, 460, 461, 470; Psychology 401, 402, 409, 410, 442, 455; Social Science 499; Urban Planning 343, 365.
- b. One of the following clusters of courses:
 - (1) Two of the following Anthropology courses: 320, 370, 412, 422, 429.
 - (2) Two of the following Geography courses: 335, 336, 337, 338.
 - (3) Two of the following Sociology courses: 321, 322, 330, 424, 452.
2. The graduation requirements of the College of Social Science for the Bachelor of Arts or Bachelor of Science degree. Credits in certain courses referenced in the **major** or **disciplinary cognate** below may also be counted toward requirement I.C.1. or requirement II.D.1. under the heading **Graduation Requirements for the Bachelor of Arts and Bachelor of Science Degrees** in the college's statement. Students should consult with an academic advisor in the Interdisciplinary Studies office concerning courses that are strongly recommended for completing requirements I. A. and B.; or requirements II. A., B., and C.; under the heading **Graduation Requirements for the Bachelor of Arts and Bachelor of Science Degrees** in the college's statement.
3. Disciplinary Cognate: 18
 A minimum of 18 credits in courses in *one* of the following disciplines: anthropology, economics, geography, history, political science, psychology, or sociology. The Tier II writing course or the cluster of courses that is used to satisfy the University's Tier II writing requirement for the Interdisciplinary Studies in Social Science major referenced in item 1. above must be included in the student's **Major** or **Disciplinary Cognate**. Courses in the discipline that are selected to meet the **Disciplinary Cognate** requirement may *not* be included with the additional courses that the student selects from a list of approved courses to complete the requirements for a **Major**. The courses that are used to satisfy the Disciplinary Cognate requirement must be selected from a list of approved courses that is available in the Interdisciplinary Studies office. At least one introductory course, one course in methodology, and two 300–400 level courses must be included in the Disciplinary Cognate.
4. A minimum of 24 credits in *one* of the majors referenced below. At least 12 credits in courses in the College of Social Science, at least two courses in each of two different departments or schools, at least 12 credits in 300–400 level courses, and at least two 400-level courses must be included in the major.

Community Relations (24 credits):

- (1) At least two of the following seven courses (6 or 7 credits):

EC	335	Taxes, Government Spending and Public Policy	3
GEO	413	Urban Geography	3
PLS	302	Urban Politics	3
PLS	310	Public Bureaucracy in the Policy Process	3
PSY	270	Community Psychology	3
SOC	361	Contemporary Communities	3
UP	201	The Role of Planning in Urban and Regional Development	4

- (2) Additional credits in approved courses (17 or 18 credits). The Tier II writing course or the cluster of courses that is used to satisfy the University's Tier II writing requirement for the Interdisciplinary Studies in Social Science major referenced in item 1. above must be included in the student's **Major** or **Disciplinary Cognate**. Courses in the discipline that are selected to meet the **Disciplinary Cognate** requirement may *not* be included with the additional courses that the student selects from a list of approved courses to complete the requirements for a **Major**. The additional courses that are used to satisfy the Community Relations major must be selected from a list of approved courses that is available in the Interdisciplinary Studies office. Included in this list is GBL 323 Introduction to Business Law (3 credits).

Environmental Policy (24 credits):

- (1) At least two of the following eight courses (6 credits):

EC	335	Taxes, Government Spending and Public Policy	3
EEP	255	Ecological Economics	3
FW	211	Introduction to Gender and Environmental Issues	3
GEO	432	Environmental Ethics (W)	3
HST	391	Environmental History of North America	3
PLS	313	Public Policy Analysis	3
RD	320	Resource Management and Planning	3
SOC	452	Environment and Society	3
- (2) Additional credits in approved courses (18 credits). The Tier II writing course or the cluster of courses that is used to satisfy the University's Tier II writing requirement for the Inter-

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Interdisciplinary Studies in Social Science

disciplinary Studies in Social Science major referenced in item 1. above must be included in the student's **Major or Disciplinary Cognate**. Courses in the discipline that are selected to meet the **Disciplinary Cognate** requirement may *not* be included with the additional courses that the student selects from a list of approved courses to complete the requirements for a **Major**. The additional courses that are used to satisfy the Environmental Policy major must be selected from a list of approved courses that is available in the Interdisciplinary Studies office.

Health Studies (24 credits):

- (1) At least two of the following eight courses (6 or 7 credits):
 - ANP 370 Culture, Health, and Illness 3
 - EC 335 Taxes, Government Spending and Public Policy 3
 - EC 498 Economics of Health Care 3
 - GEO 435 Geography of Health and Disease 3
 - PHL 344 Ethical Issues in Health Care 4
 - PLS 313 Public Policy Analysis 3
 - PSY 320 Health Psychology 3
 - SOC 475 Sociology of Health Care Systems 3
- (2) Additional credits in approved courses (17 or 18 credits). The Tier II writing course or the cluster of courses that is used to satisfy the University's Tier II writing requirement for the Interdisciplinary Studies in Social Science major referenced in item 1. above must be included in the student's **Major or Disciplinary Cognate**. Courses in the discipline that are selected to meet the **Disciplinary Cognate** requirement may *not* be included with the additional courses that the student selects from a list of approved courses to complete the requirements for a **Major**. The additional courses that are used to satisfy the Health Studies major must be selected from a list of approved courses that is available in the Interdisciplinary Studies office. Included in this list is MGT 325 Management Skills and Processes (3 credits).

Human Aging (24 credits):

- (1) The following course (3 credits):
 - SSC 493 Social Science Internship 3
- (2) At least two of the following eight courses (6 to 8 credits):
 - EC 498 Economics of Health Care 3
 - FCE 413 Adult Development and the Family: Middle and Later Years 4
 - GEO 435 Geography of Health and Disease 3
 - ISS 210 Society and the Individual (D) 4
 - NUR 891 Selected Topics 3
 - PHL 344 Ethical Issues in Health Care 4
 - PSY 401 Memory and Skill (W) 3
 - PSY 409 Psychobiology of the Life Span (W) 3
- (3) Additional credits in approved courses (13 to 15 credits). The Tier II writing course or the cluster of courses that is used to satisfy the University's Tier II writing requirement for the Interdisciplinary Studies in Social Science major referenced in item 1. above must be included in the student's **Major or Disciplinary Cognate**. Courses in the discipline that are selected to meet the **Disciplinary Cognate** requirement may *not* be included with the additional courses that the student selects from a list of approved courses to complete the requirements for a **Major**. The additional courses that are used to satisfy the Human Aging major must be selected from a list of approved courses that is available in the Interdisciplinary Studies office. Included in this list is GBL 323 Introduction to Business Law (3 credits).

Human Resources and Society (24 credits):

- (1) At least two of the following seven courses (6 credits):
 - EC 380 Labor Relations and Labor Market Policy 3
 - EEP 453 Women and Work: Issues and Policy Analysis 3
 - HST 213 U.S. Business and Economic History 3
 - MGT 325 Management Skills and Processes 3
 - PLS 310 Public Bureaucracy in the Policy Process 3
 - PSY 255 Industrial and Organizational Psychology 3
 - SOC 322 Sociology of Work 3
- (2) Additional credits in approved courses (18 credits). The Tier II writing course or the cluster of courses that is used to satisfy the University's Tier II writing requirement for the Interdisciplinary Studies in Social Science major referenced in item 1. above must be included in the student's **Major or Disciplinary Cognate**. Courses in the discipline that are selected to meet the **Disciplinary Cognate** requirement may *not* be included with the additional courses that the student selects from a list of approved courses to complete the requirements for a **Major**. The additional courses that are used to satisfy the Human Resources and Society major must be selected from a list of approved courses that is available in the Interdisciplinary Studies office. Included in this list are: ACC 230 Survey of Accounting Concepts (3 credits); FI 320 Introduction to Finance (3 credits); GBL 323 Introduction to Business Law (3 credits); MGT 315 Managing Human Resources and Organizational Behavior (3 credits); MGT 325 Management Skills and Processes (3 credits); and MSC 327 Introduction to Marketing (3 credits).

International Studies (24 credits):

- (1) At least two of the following seven courses (6 credits):
 - ANP 201 Sociocultural Diversity 3
 - EC 340 Survey of International Economics 3
 - GEO 113 Introduction to Economic Geography 3
 - HST 390 History of International Relations 3
 - PLS 342 Comparative Political Economy 3
 - PLS 362 Foreign Policy 3
 - SOC 362 Developing Societies 3
- (2) Additional credits in approved courses (18 credits). The Tier II writing course or the cluster of courses that is used to satisfy the University's Tier II writing requirement for the Interdisciplinary Studies in Social Science major referenced in item 1. above must be included in the student's **Major or Disciplinary Cognate**. Courses in the discipline that are selected to meet the **Disciplinary Cognate** requirement may *not* be included with the additional courses that the student selects from a list of approved courses to complete the requirements for a **Major**. The additional courses that are used to satisfy the International Studies major must be selected from a list of approved courses that is available in the Interdisciplinary Studies office.
- (3) Second-year competency in a foreign language. The requirement may be satisfied by placing into a 300-level foreign language course based on a Michigan State University placement test.

Law and Society (24 credits):

- (1) At least two of the following eight courses (6 credits):
 - EC 360 Private Enterprise and Public Policy 3
 - EC 425 Law and Economics 3
 - GBL 323 Introduction to Business Law 3
 - HST 318 United States Constitutional History 3
 - PHL 354 Philosophy of Law 3
 - PLS 320 The American Judicial Process 3
 - PLS 321 American Constitutional Law 3
 - SOC 481 Intentional Social Change 3
- (2) Additional credits in approved courses (18 credits). The Tier II writing course or the cluster of courses that is used to satisfy the University's Tier II writing requirement for the Interdisciplinary Studies in Social Science major referenced in item 1. above must be included in the student's **Major or Disciplinary Cognate**. Courses in the discipline that are selected to meet the **Disciplinary Cognate** requirement may *not* be included with the additional courses that the student selects from a list of approved courses to complete the requirements for a **Major**. The additional courses that are used to satisfy the Law and Society major must be selected from a list of approved courses that is available in the Interdisciplinary Studies office. Included in this list are: ACC 230 Survey of Accounting Concepts (3 credits); FI 320 Introduction to Finance (3 credits); and GBL 323 Introduction to Business Law (3 credits).

Public Policy Studies (24 credits):

- (1) At least two of the following seven courses (6 credits):
 - EC 335 Taxes, Government Spending and Public Policy 3
 - EC 360 Private Enterprise and Public Policy 3
 - PHL 350 Introduction to Social and Political Philosophy 3
 - PLS 310 Public Bureaucracy in the Policy Process 3
 - PLS 313 Public Policy Analysis 3
 - SOC 331 Political Sociology 3
 - SOC 481 Intentional Social Change 3
- (2) Additional credits in approved courses (18 credits). The Tier II writing course or the cluster of courses that is used to satisfy the University's Tier II writing requirement for the Interdisciplinary Studies in Social Science major referenced in item 1. above must be included in the student's **Major or Disciplinary Cognate**. Courses in the discipline that are selected to meet the **Disciplinary Cognate** requirement may *not* be included with the additional courses that the student selects from a list of approved courses to complete the requirements for a **Major**. The additional courses that are used to satisfy the Public Policy Studies major must be selected from a list of approved courses that is available in the Interdisciplinary Studies office. Included in this list is GBL 323 Introduction to Business Law (3 credits).

Business Emphasis

A minimum of 15 credits is required for the Business Emphasis that 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.

This optional emphasis is recommended strongly for students enrolled in any of the above-listed majors. Business emphasis students will be able to enroll in courses offered in the Eli Broad College of Business. These courses provide a basic understanding of the forces and operations that shape and govern the character of contemporary business practice.

The Business Emphasis can be a valuable supplement and/or complement to any of the majors in the interdisciplinary studies in social science. Therefore, credits earned in these courses may be

applied to 3. and 4. above, if approved by the student's academic advisor.

Many employers in the public and private sectors and many graduate school programs in business, health care administration, labor and industrial relations, law, public policy, and urban affairs are especially interested in interdisciplinary studies students who have included a significant amount of business-related course work in their undergraduate degree programs.

To enroll in the business emphasis, students must meet with an interdisciplinary studies advisor in order to file a program completion form. Students must meet with an interdisciplinary studies advisor to determine if individual courses may be applied to more than one degree program requirement.

Requirements for the Business Emphasis

- | | |
|--|----|
| 1. A minimum of 15 credits..... | 15 |
| 2. Both of the following courses (6 credits): | |
| ACC 230 Survey of Accounting Concepts | 3 |
| EC 201 Introduction to Microeconomics | 3 |
| 3. Three of the following courses (9 credits): | |
| EC 202 Introduction to Macroeconomics | 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 |

After the student has completed the requirements for the Bachelor of Arts or Bachelor of Science degree with a major in interdisciplinary studies in social science, an academic advisor in the Interdisciplinary Studies office will initiate the certification of the completion of one of the eight Interdisciplinary majors referenced above. After the certification is approved by the Dean of the College of Social Science, the Office of the Registrar will enter on the student's academic record the name of the major and the date that it was completed. This certification will appear on the student's transcript.

Students who have fulfilled the requirements for the Business Emphasis, will also receive a business emphasis certificate prepared by the Interdisciplinary Studies in Social Science program.

TEACHER CERTIFICATION OPTION

The interdisciplinary studies in social science major leading to the Bachelor of Arts or Bachelor of Science degree is available for teacher certification.

Students with an interdisciplinary studies in social science major must complete the following additional disciplinary requirements: a minimum of 36 credits in courses in economics, geography, history, and political science combined and a minimum of two courses in each of those disciplines; those courses must be approved in advance by the College of Social Science. The approved courses may also be used to satisfy the requirements referenced in item 3. under the heading *Requirements for the Bachelor of Arts or Bachelor of Science Degree in Interdisciplinary Studies in Social Science*, as well as the requirements for teacher certification.

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

GRADUATE PROGRAM

In cooperation with the School of Labor and Industrial Relations, the School of Social Work, and the urban and regional planning faculty in the Department of Geography, the College of Social Science offers a Master of Arts degree program with a major in interdisciplinary studies in social science: global applications. The program is designed for international mid-career specialists, managers, and executives who are employed in the public and private sectors in various large-scale, national-level organizations that involve globalization in multilingual situations. The objective of the program is to provide an opportunity for individuals to study the way applied fields of social science may contribute to

the resolution of problems that are created by rapid economic globalization. The program focuses on the areas of public housing and urban planning, social service delivery, and labor and industrial relations. The program, which requires full-time study for a period of one year (two semesters and one summer), is available only under Plan B (without thesis).

The Associate Dean for Academic and Student Affairs in the college has administrative responsibility for the Master of Arts degree program with a major in interdisciplinary studies in social science: global applications. The Associate Dean confers with an advisory committee composed of representatives of the faculty in labor and industrial relations, social work, and urban and regional planning on student admissions and program requirements. A program coordinator assists students in planning their programs of study.

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 in interdisciplinary studies in social science: global applications, an applicant must:

1. Be employed full-time in the public or private sector as an international mid-level specialist, manager, or executive in a large-scale, national-level organization that involves globalization in multilingual situations.
2. Be nominated by his or her employing organization. The employing organization must submit to the college a statement to the effect that if the applicant is admitted to the program the applicant would be granted a one-year absence from the organization and the organization would sponsor the applicant while he or she is enrolled in the program.
3. Take the Graduate Record Examination (GRE) General Test and have the scores submitted to the college.
4. Submit to the college a statement that addresses the applicant's:
 - a. reasons for applying for admission to the program.
 - b. willingness to pursue the program full-time during a one-year absence from his or her employing organization and willingness to meet the residence requirement for the program on Michigan State University's East Lansing campus during that year, if he or she is admitted to the program.

To be admitted to the master's degree program in interdisciplinary studies in social science: global applications on regular status, an applicant must have:

1. Completed a bachelor's degree with an acceptable record from a recognized educational institution. Although the field of undergraduate study is not critical for acceptance, an applicant should have completed at least 12 credits in the social sciences.
2. Professional experience acceptable to the college.
3. Demonstrated to the satisfaction of the college quantitative skills (typically algebra or introductory calculus, and statistics) and computer competence sufficient for completing master's level methods courses in the social sciences.
4. Demonstrated to the satisfaction of the college advanced competence in a language other than English.

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 by having a total score of 580 (paper version) or 237 (computer version) or above on the **Test of English as a Foreign Language** and having the approval of the English Language Center.

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Global Applications

However, meeting the minimum standards referenced above does not guarantee admission to the program. Admission to the program is determined by a careful case-by-case review of each applicant's credentials. Particular emphasis is given to the applicant's grade-point average during the junior and senior years of the undergraduate program, scores on the GRE, and statement of objectives.

A cumulative grade-point average of 3.00 or higher for the undergraduate program of study is preferred for admission on regular status. However, an applicant with a grade-point average below 3.00 may be admitted if other components of the application are especially strong.

Requirements for the Master of Arts Degree in Interdisciplinary Studies in Social Science: Global Applications

The student must complete a total of 30 credits under Plan B in a program of study developed in consultation with the program coordinator and approved in advance by the Associate Dean. The student's program of study must ensure exposure to the concerns of labor and industrial relations, social work, and urban and regional planning and must include:

	CREDITS
1. At least 21 credits in courses in the College of Social Science.	
2. Core.	
a. The following course:	
SW 821 Social Welfare Policy and Service Delivery Systems	2
b. One of the following courses:	
LIR 824 Human Resource Strategies and Decisions	3
LIR 858 Collective Bargaining	3
c. One of the following courses:	
UP 801 Concepts and Issues in Planning and Development	4
UP 823 Urban Land Management	4
3. Concentration: Six to 9 credits in <i>one</i> of the following three concentrations. A list of approved courses for each of the concentrations is available from the college.	
Concentration A: Human Resource Development/Industrial Relations	
Concentration B: Comparative Human Service Programs	
Concentration C: Urban and Regional Development	
4. Guided Electives: Six to 9 credits in courses from the following departments within the college: Anthropology, Criminal Justice, Geography, Political Science, Psychology, and Sociology. With the approval of the Associate Dean, credits in courses that are administered by other academic units may be used to satisfy this requirement.	
5. Field Experience: Three credits in an internship, practicum experience, or field experience while enrolled on the East Lansing campus. The related course must be approved in advance by the Associate Dean. A policy paper or report based on the field experience is required.	
6. Additional Electives: Three credits in an additional internship, practicum, or field experience; in independent study; or in an experiential learning opportunity. The related course must be approved in advance by the Associate Dean.	

Academic Standards

Students are expected to maintain a minimum grade-point average of 3.00 each semester, in addition to maintaining a cumulative grade-point average of 3.00.

INTERDEPARTMENTAL GRADUATE SPECIALIZATIONS

INTERDEPARTMENTAL GRADUATE SPECIALIZATIONS IN APPLIED DEVELOPMENTAL SCIENCE

The interdepartmental graduate specializations in applied developmental science are available as electives to students who are enrolled in the master's and doctoral degree programs in the departments of Agricultural and Extension Education; Agricultural Economics; Anthropology; Audiology and Speech Sciences; Communication; Counseling, Educational Psychology and Special Education; Crop and Soil Sciences; Educational Administration; Family and Child Ecology; Food Science and Human Nutrition; Geography; History; Kinesiology; Linguistics and Germanic, Slavic, Asian and African Languages; Marketing and Supply Chain Management; Political Science; Psychology; Community, Agriculture, Recreation and Resource Studies; Sociology; Statistics and Probability; Telecommunication, Information Studies and Media; and Zoology; in the master's and doctoral degree programs in the School of Music; 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 program in the College of Human Medicine.

The College of Social Science administers the specializations. The specializations are supervised by an interdisciplinary faculty coordinating committee representing the graduate programs involved. Students must meet the requirements of both the degree program and the specialization. Students should work closely with their academic advisors to ensure that meaningful experiences that are directly related to applied developmental science are included in their degree programs. 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 student's degree program.

American society is faced with pervasive and burgeoning problems of individuals, families, and communities. Issues of child and youth development, of economic competitiveness, of environmental quality, and of health and health care require creative research and the design, deployment, and evaluation of innovative public policies and intervention programs. As a consequence, there has been increasing societal pressure for universities, and for the scholars within them, to design and deliver knowledge applications addressing these problems.

One of the most fruitful areas for such knowledge application involves examining the problems of individuals and communities across the life span. These applications require the ability to understand and assist the development of individuals who vary with respect to cultural and ethnic background, economic and social opportunity, physical and cognitive abilities, and conditions of living. Infants at biopsychosocial risk, gifted children or those with developmental disabilities, adolescents considering health-compromising behaviors, single- and dual-worker parents, the frail elderly, ethnic minorities, and impoverished families are just some of the populations requiring applications of knowledge based on the work of scholars in fields such as criminal justice, human nutrition, medicine, and psychology. There is a need

within those fields for scholars who adopt a development perspective to their science.

The five components of applied developmental science are described below:

Developmental systems theory deals with the continuities and discontinuities of development, i.e., with the process of change. There is a temporal component to individual, family, institutional, and community experiences. Some aspects of development remain stable over time; other aspects change. Systems theory provides an approach to modeling stability and change, and to the identification of factors that causally influence organizational processes. The temporality of change has important implications for research design, service provision, and program evaluation because it is dependent upon use of longitudinal methods and keyed by multivariate models of the developmental process.

Competence in diversity involves issues related to diversity, whether that diversity is generated by culture, gender, age, socioeconomic status, disability, race or ethnicity, or community. All of those factors potentially affect individual differences among persons, families, communities, and neighborhoods and potentially contribute to program successes and failures. Competence in diversity refers to a set of academic and interpersonal skills that allow individuals to increase their understanding and appreciation of cultural differences and similarities within, among, and between groups.

Contextualism involves the centrality of context in terms of individuals, families, and family functioning. Context exists at all levels—biological, physical/ecological, social-cultural, political, economic, etc., and invites systemic approaches to research and program design and implementation. Contextual variables such as poverty, family size, birth order, single parenthood, supplemental child care, parental psychopathology, unemployment, and workplace stress all help to set the context within which individuals, families, and social groups behave and develop.

Asset building emphasizes identification of assets so that the capacity to act is strengthened at the most basic level possible, whether that level is the individual person, or a local school, human service agency, neighborhood, or community. Applied developmental science stresses normative developmental processes as primary prevention rather than remediation. It rejects deficit model approaches to individual and social preventive-interventions. Universities exist to disseminate knowledge through instruction. From an applied developmental science perspective, asset building requires the learner (community) to be implicitly involved in the development of educational programs so that there is an explicit match between educational materials and needs of the consumer.

University-community partnerships stresses the principle that models for community intervention must be tested in the community setting in full collaboration with community partners. In short, communities must participate as full partners in the design and evaluation of community programs. From this perspective, application of knowledge generates new questions that demand generation of new knowledge (i.e., new approaches, new strategies, new program designs). The activities of applied developmental science span a continuum of knowledge generation to knowledge application which includes, but is not limited to, research on the applicability of scientific theory to human growth and development in ecologically valid contexts; the study of developmental correlates of phenomena of social import; the construction and utilization of developmentally and contextually sensitive assessment instruments; the design and evaluation of developmental interventions and enhancement programs; and the dissemination of developmental knowledge to individuals, families, communities, practitioners, and policymakers through developmental education, written materials, the mass media, expert testimony, and community collaborations.

All of these five components converge to a research environment that values longitudinal designs by which one can track individuals over time, assess normative trends, evaluate different contextual influences on intraindividual change as well as normative trends, and assess the dynamic bi-directional processes that regulate organization of individual, dyadic, family, and social systems.

The interdepartmental graduate specializations in applied developmental science are designed to provide a knowledge base that will facilitate the work of graduates who pursue careers in educational, agency, institutional, and governmental organizations that are integral to preventive-intervention programs, longitudinal studies of human development, and developmental evaluation. Specifically, the specializations are designed to:

1. Provide an opportunity for graduate students to obtain a comprehensive and contemporary academic experience in the field of applied developmental science.
2. Help graduate students with an interest in applied developmental science to become sensitive to their professional obligations and responsibilities.
3. Develop an intellectual environment that will foster the growth of research and teaching in the area of applied developmental science, as well as sensitize students to issues related to the rich diversity of human ethnic and racial populations, to social problems and social policy issues related to human development, and to the variety of contexts within which human development occurs.
4. Increase public awareness of the benefits of university-community partnerships to solve problems of social living and human development.

A student who is enrolled in one of the master's, Educational Specialist, doctoral, or graduate-professional degree programs referenced above and who wishes to complete the requirements for an Interdepartmental Graduate Specialization in Applied Developmental Science must petition the admission committee for the specialization for acceptance. To be considered for acceptance into the specialization, the student should have completed the Graduate Record Examination including the Subject Test in the student's discipline. To be accepted into the specialization, the student must have had academic preparation in experimental design and statistical analysis. If in the judgment of the coordinating committee the student's academic preparation is inadequate, the student may be required to complete some courses in addition to the courses that are used to satisfy the requirements for the specialization.

Although separate interdepartmental graduate specializations in applied developmental science have been developed 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. If a student has completed some of the requirements for the specialization that is available to master's students, but is subsequently admitted to a doctoral program and plans to complete the requirements for the specialization that is available to doctoral students, the requirements that the student has completed may be counted toward the requirements for the specialization that is available to doctoral students.

The student and the major professor select a guidance committee that will oversee the student's program of study for the specialization. In the event that a guidance committee has responsibility for overseeing a student's master's degree program, that same guidance committee may also oversee the student's program of study for the specialization, provided that the membership of the committee has been expanded to include at least one additional person who is a member of the applied developmental science faculty and who will represent that faculty on the committee. The same guidance committee that has responsi-

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bility for overseeing a student's Educational Specialist or doctoral degree program may also oversee the student's program of study for the specialization, provided that the membership of the committee has been expanded to include at least two additional persons who are members of the applied developmental science faculty and who will represent that faculty on the committee. For those students who are enrolled in master's degree programs that do not require that a guidance committee be established to oversee the student's program; for students who are enrolled in the graduate–professional degree program in the College of Human Medicine; and for master's, Educational Specialist, and doctoral students for whom guidance committees will be established for the sole purpose of overseeing programs of study for the specializations, the coordinator for applied developmental science will be responsible for establishing the students' guidance committees.

Students who are pursuing interdepartmental graduate specializations in applied developmental science are strongly encouraged to participate in twice monthly seminars with members of the applied developmental science faculty and other students who are pursuing the specializations. At those seminars, faculty and invited guests address issues related to design, methodology, statistical analysis of longitudinal data, evaluation, and techniques for building community–university research collaborations.

Requirements for the Interdepartmental Graduate Specializations in Applied Developmental Science

Master's Students

The student must:

1. Complete 18 credits of course work as specified below.
2. Complete a field research experience during at least one semester at an approved applied developmental science–community partnership site. This requirement may be met by completing one or more courses that have been approved by the student's guidance committee or by completing an alternative experience approved by the coordinator for applied developmental science.

In addition to meeting the requirements referenced above, the thesis of a student on Plan A must reflect the integration of the student's discipline and applied developmental science.

Doctoral Students

The student must:

1. Complete 18 credits of course work as specified below.
2. Complete a field research experience during at least one semester at an approved applied developmental science–community partnership site. This requirement may be met by completing one or more courses that have been approved by the student's guidance committee or by completing an alternative experience approved by the coordinator for applied developmental science.
3. Pass a written comprehensive examination in applied developmental science.
4. Complete a dissertation that reflects the integration of the student's discipline and applied developmental science.

Students who are enrolled in the Educational Specialist degree program in the Department of Counseling, Educational Psychology and Special Education and students who are enrolled in the graduate–professional degree program in the College of Human Medicine must meet the requirements for the specialization that are specified for master's students on Plan B.

Required Core Courses

The courses that are used to satisfy the requirements for an Interdepartmental Graduate Specialization in Applied Developmental Science must be approved by the student's guidance committee for the specialization. The courses should be selected within the context of the student's educational and career goals and with the goal of demonstrating competence in developmental systems theory, research methods, and quantitative and qualitative analytic methods.

GROUP A: HUMAN DEVELOPMENT EMPHASIS

The courses listed below treat human development from a multidisciplinary perspective. The student must complete a minimum of three courses totaling at least 9 credits.

	CREDITS
Human Development Focus	
ANP 820 Language and Cultural Meaning	4
FCE 801 Family Ecosystems	3
SOC 863 Community Theory and Research	3
Assessment and Evaluation Focus	
ASC 823E Assessment of Childhood Language Disorders	3
FCE 822 Assessment of the Young Child	3
HNF 843 Community Nutritional Assessment	3
PSY 818 Psychometric Theory and Test Construction	3
SW 892 Graduate Seminars in Social Work	3
Theory Focus	
AEC 861 Agriculture in Economic Development	3
ANP 836 Theories of Sociocultural Change	3
ANP 840 Biocultural Evolution	3
FCE 847 Theories of the Family	3
SOC 863 Community Theory and Research	3
Diversity and Context Focus	
ANP 820 Language and Cultural Meaning	4
ANP 832 Class and Ethnicity in Social Differentiation	3
ANP 839 Age and Gender	3
COM 828 Cross–Cultural Communication	3
GEO 418 The Ghetto	3
KIN 865 Curriculum and Instruction in Adapted Physical Education	3
PLS 853 Political Economy of Development Policy	3
PSY 926 Scientific and Professional Ethics	3

GROUP B: STATISTICAL AND METHODOLOGICAL EMPHASIS

The courses listed below treat methodology and statistics applicable to research in applied developmental science. The student must complete a minimum of three courses totaling at least 9 credits.

Multivariate Analysis	
CEP 934 Multivariate Data Analysis I	4
CEP 935 Advanced Topics in Multivariate Data Analysis II	4
MSC 907 Causal Modeling in Marketing	3
STT 843 Multivariate Analysis	3
STT 841 Linear Statistical Models	3
Qualitative Analysis	
EPI 810 Introduction to Descriptive and Analytical Epidemiology	3
EPI 812 Causal Inference in Epidemiology	3
SOC 985 Qualitative Field Research	3
Family and Child Ecology 980 may be counted toward the requirements for the specialization only when the topic deals with qualitative research methods.	
Systems Analysis	
AEC 810 Institutional and Behavioral Economics	3
STT 844 Time Series Analysis	3
STT 861 Theory of Probability and Statistics I	3
STT 862 Theory of Probability and Statistics II	3
Survey and Field Methods	
AEC 874 Field Data Collection and Analysis in Developing Countries	3
ANP 829 Research Methods in Cultural Anthropology	3
ANP 833 Ethnographic Analysis	3
CEP 937 Survey Research Methods in Education	4
SOC 881 Analysis of Social Data I	3
SOC 882 Analysis of Social Data II	4
SOC 986 Survey Research Principles	3
SW 830 Applied Social Work Research: Experimental and Quasi–Experimental Designs	3
SW 831 Applied Social Work Research: Design and Evaluation	2
SW 832 Applied Social Work Research: Survey and Field Designs	3
Research Methods	
ASC 803 Research Methods in Communication Sciences and Disorders	3
CEP 933 Quantitative Methods in Educational Research II	3
CEP 939 Seminar in Educational Measurement	3
COM 801 Communication Research I	4
COM 802 Communication Research II	4
COM 902 Communication Research Design II	4
GEO 865 Advanced Quantitative Methods in Geography	4
PLS 801 Quantitative Techniques in Public Policy and Political Science I	3
PLS 802 Quantitative Techniques in Public Policy and Political Science II	3

PSY	815	Quantitative Research Design and Analysis in Psychology	4
PSY	817	Psychometric Methods	4
UP	814	Applied Research Methods for Planning and Development	3

Upon completion of the requirements for the degree program and of the Interdepartmental Graduate Specialization in Applied Developmental Science, the student should contact the administrator of the department, school, or college in which he or she is enrolled and request certification for the completion of the specialization. After the certification is approved by the administrator of the department, school or college in which the student is enrolled and by the Dean of the College of Social Science, the Office of the Registrar will enter on the student's academic record the name of the specialization and the date that it was completed. This certification will appear on the student's transcript.

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.	

Upon completion of the requirements for the Graduate Specialization in Environmental Policy, the student should contact the Dean of the College of Social Science and request certification for the completion of the specialization. After the certification is approved by the Dean, the Office of the Registrar will enter on the student's academic record the name of the specialization and the date that it was completed. This certification will appear on the student's transcript.

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.

Requirements for the Graduate Specialization in Environmental Science and Policy

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

	CREDITS
ESP 801 Physical, Chemical and Biological Processes of the Environment	3
ESP 802 Human Systems and the Environment	3
ESP 803 Human and Ecological Health Assessment and Management	3
ESP 804 Environmental Applications and Analysis	3

Students may apply to waive no more than 3 credits in Environmental Science and Policy 801, 802 or 803 if they demonstrate competence in the materials covered by the course. Students should contact an advisor in the program to apply for a waiver. The topical focus of Environmental Science and Policy 804 will vary from year to year and students may enroll in it twice for credit.

Upon completion of the requirements for the Graduate Specialization in Environmental Science and Policy, the student should contact the Dean of the College of Social Science and request certification for the completion of the specialization. After the certification is approved by the Dean of the College of Social Science, the Office of the Registrar will enter on the student's academic record the name of the specialization and the date that it was completed. This certification will appear on the student's transcript.

GRADUATE SPECIALIZATION IN FOOD AND AGRICULTURAL STANDARDS

The Graduate Specialization in Food and Agricultural Standards is administered by the College of Agriculture and Natural Resources and the College of Social Science. The primary administrative unit for this specialization is the College of Social Science.

The Graduate Specialization in Food and Agricultural Standards is available as an elective for students who are enrolled in master's and doctoral programs at Michigan State University. This specialization is designed for graduate students who wish to explore connections among the political, ethical, strategic, and technical considerations presented by food and agricultural standards. Students enrolled in this specialization will develop their understanding of the relationships that connect science and technology to the creation, maintenance, and modification of agrifood standards; the ethical and value issues raised by standards in domestic and international agricultural production and marketing; the cultural and sociopolitical dynamics surrounding the development, maintenance, and change of agrifood standards; and the policy implications of global agrifood standards, including how the process of standards creation and implementation may be made more accountable, transparent, and democratic.

Students who are interested in the specialization must contact the advisor for the Graduate Specialization in Food and Agricul-

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tural Standards in the College of Social Science. To be admitted to the specialization, a student must have been admitted to a graduate program at Michigan State University. Each student's program of study must be approved by the adviser for the specialization. Students are not permitted to take all elective courses within their own discipline.

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 master's or doctoral degree.

Requirements for the Graduate Specialization in Food and Agricultural Standards

The student must complete a total of 15 credits. At least three courses or 9 credits must be in 800-level courses.

	CREDITS
1. Complete the following course :	
SSC 820 Proseminar in Food and Agricultural Standards	3
2. Complete at least 3 credits from each of the following three areas:	
Regulatory Frameworks	
ANR 811 U.S. Food Laws and Regulations	3
FSC 420 Quality Assurance	2
FSC 421 Food Laws and Regulations	3
FSC 490 Special Problems in Food Science	3
LIR 868 Employment Law	3
SOC 890 Individual Readings	3
Economic and Political Approaches	
AEC 817 Political Economy of Agricultural and Trade Policy	3
AEC 831 Food Marketing Management	3
AEC 841 Analysis of Food System Organization and Performance	3
EC 840 International trade: Theory and Commercial Policy	3
GEO 415 Location Theory and Land Use Analysis	3
PLS 902 Research Seminar in Evaluation Research	3
Human Dimensions and Social Perspectives	
ANP 867 Social Impact Analysis	3
GEO 402 Agricultural Climatology	3
GEO 432 Environmental Ethics in Geography (W)	3
GEO 454 Spatial Aspects of Regional Development	3
HNF 406 Sociocultural Aspects of Food	3
HRT 486 Biotechnology in Agriculture: Applications and Ethical Issues	3
RD 444 Pesticides, People and Politics	3
SOC 861 Agricultural Structure and Change	3
SOC 868 Science and Technology	3
VM 828 Food Safety Seminar Series	1
VM 829 Problems in Food Safety	1
3. Complete the following course:	
SSC 891 Food and Agricultural Standards	3

Upon completion of the requirements for the Graduate Specialization in Food and Agricultural Standards, the student should contact the Dean of the College of Social Science and request certification for the completion of the specialization. After the certification is approved by the Dean of the College of Social Science, the Office of the Registrar will enter on the student's academic record the name of the specialization and the date it was completed. This certification will appear on the student's transcript.

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 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 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

Upon completion of the requirements for the Graduate Specialization in Global Urban Studies, the student should contact the Dean of the College of Social Science and request certification for the completion of the specialization. After the certification is approved by the Dean of the College of Social Science, the Office of the Registrar will enter on the student's academic record the name of the specialization and the date that it was completed. This certification will appear on the student's transcript.

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 3.00. 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.

Upon completion of the requirements for the Graduate Specialization in Infancy and Early Childhood, the student should contact the chairperson of the department in which he or she is enrolled and request certification for the completion of the specialization. After the certification is approved by the chairperson of department in which the student is enrolled and by the Dean of the College of Social Science, the Office of the Registrar will enter on the student's academic record, the name of the specialization and the date that it was completed. This certification will appear on the student's transcript.

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.

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- 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. 6
 - (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

Upon completion of the requirements for the Graduate Specialization in International Development, the student should contact the graduate academic advisor for international development in the College of Social Science and request certification for the completion of the specialization. After the certification is ap-

proved by the Dean of the College of Social Science, the Office of the Registrar will enter on the student's academic record the name of the specialization and the date that it was completed. This certification will appear on the student's transcript.

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:

- Complete 18 credits of course work as specified below.
- Participate in a research project **outside** their major department, either by completing one semester of work in a labora-

tory 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.

Upon completion of the requirements for the degree program and of the Interdepartmental Graduate Specialization in Cognitive Science, the student should contact the administrator of the department, school, or college in which he or she is enrolled and request certification for the completion of the specialization. After the certification is approved by the Cognitive Science Graduate Affairs Committee, the Director of the program, and the Dean of the College of Social Science, the Office of the Registrar will enter on the student's academic record the name of the specialization and the date that it was completed. This certification will appear on the student's transcripts.

DEPARTMENT of ANTHROPOLOGY

Robert K. Hitchcock, 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 has signature programs in culture, resources and power; great lakes anthropology; medical anthropology; and forensic anthropology and bioarchaeology. Visit www.anthropology.msu.edu.

UNDERGRADUATE PROGRAM

Requirements for the Bachelor of Arts Degree in Anthropology

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 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.
2. 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 Sociocultural Diversity	3
ANP 202 Biocultural Evolution	3
ANP 489 Anthropology Capstone Course (W)	3
 - b. One area course from Anthropology 410, 411, 412, 414, 415, 416, 432, 433, 434, 450, 451, 452, 453.
 - c. One topical/analytical course from Anthropology 203, 320, 321, 322, 330, 340, 361, 363, 370, 420, 422, 423, 424, 426, 428, 430, 431, 440, 441, 442, 460, 461, 462, 470, 480.
 - 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

1. 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. f. below may also 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 Anthropology major is met by completing Anthropology 489. That course is referenced in item 3. a. below.
2. The College of Social Science requirements for the Bachelor of Science degree.
The College's NATURAL SCIENCE REQUIREMENT for the Anthropology major is met by completing 15 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, Entomology, Geological Sciences, Mathematics, Microbiology and Molecular Genetics, Physics and Astronomy, Plant Biology, Plant Pathology, 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. CREDITS
3. The following requirements for the major: 30
 - a. All of the following courses:

ANP 201 Sociocultural Diversity	3
ANP 202 Biocultural Evolution	3
ANP 489 Anthropology Capstone Course (W)	3

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Department of Anthropology

- b. One area course from Anthropology 410, 411, 412, 414, 415, 416, 432, 433, 434, 450, 451, 452, 453.
- c. One topical/analytical course from Anthropology 203, 320, 321, 322, 330, 340, 361, 363, 370, 420, 422, 423, 424, 426, 428, 430, 431, 440, 441, 442, 460, 461, 462, 470, 480.
- 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. 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. At least 12 unique credits counted towards the requirements for a student's minor must not be used to fulfill the requirements for that student's major.

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 19 or 20 credits in the Department of Anthropology from the following:	
1. Both of the following courses (7 credits):	
ANP 201 Sociocultural Diversity	3
ANP 320 Social and Cultural Analysis	4
2. One of the following courses (3 or 4 credits):	
ANP 202 Biocultural Evolution	3
ANP 340 Introduction to Physical Anthropology	4
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.	

TEACHER CERTIFICATION OPTIONS

An anthropology disciplinary minor is available for teacher certification.

Students who elect the anthropology disciplinary minor must contact the Department of Anthropology.

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

Anthropology majors are encouraged, with the consent of their guidance committees, to complete a cognate in a field outside the department. Similarly, the department offers a cognate in anthropology to individuals with majors in other disciplines.

The Department of Anthropology is affiliated with the Doctor of Philosophy degree program with a major in ecology, evolutionary biology and behavior. For information about a Doctor of Philoso-

phy degree program that involves ecology, evolutionary biology and behavior and a major in the Department of Anthropology, refer to the statement on the doctoral program in ecology, evolutionary biology and behavior in the *College of Natural Science* section of this catalog.

Students who are enrolled in the Master of Arts degree program in the Department of Anthropology may elect a Specialization in Ecology, Evolutionary Biology and Behavior. For additional information, refer to the statement on the specialization in the *College of Natural Science* section of this catalog.

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 3.00 or better in academic studies.

Requirements for the Master of Arts Degree for Students Who Are Enrolled in the Master of Arts Degree Program with a Major in Anthropology

Students who are enrolled in the Master of Arts degree program with a major in Anthropology must complete 30 credits under Plan A (with thesis). The Plan B option is available **only** to students who are enrolled in the Doctor of Philosophy degree program with a major in Anthropology and who wish to meet the requirements for the Master of Arts degree as part of the Doctor of Philosophy degree program. Normally students complete the requirements for the Master of Arts degree in three to four years.

Plan A requirements include:

- 1. A minimum of four anthropological foundation courses as specified by the department according to the student's subdiscipline.
- 2. Anthropology 840.
- 3. A methods course in anthropology or a substitute approved by the student's guidance committee.

Requirements for the Master of Arts Degree for Students Who Are Enrolled in the Doctor of Philosophy Degree Program with a Major in Anthropology

Students who are enrolled in the Doctor of Philosophy degree program with a major in Anthropology and who wish to meet the requirements for a Master of Arts degree with a major in Anthropology as part of the Doctor of Philosophy degree program must complete 30 credits under Plan B (without thesis). The Plan B option is available **only** to students who are admitted to the Doctor of Philosophy degree program with a major in Anthropology. Normally students meet the requirements for the Master of Arts degree during the third year of study in the doctoral program.

Plan B requirements include:

- 1. A minimum of 4 anthropological foundation courses as specified by the department according to the student's subdiscipline.

2. Anthropology 840.
3. A methods course in anthropology or a substitute approved by the student's guidance committee.
4. Completion of all additional required courses to a minimum of 30 credits as specified by the guidance committee.
5. Pass the doctoral evaluation procedure at the end of both the first and second years in residence.
6. Satisfactorily complete the Ph.D. comprehensive examination administered by the student's guidance committee and approved by the faculty.

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

A master's degree is not a prerequisite for admission to the doctoral program in anthropology. Students who wish to transfer into the doctoral degree program from the master's degree program must complete the regular application procedure for admission to the doctoral program.

Requirements for the Doctor of Philosophy Degree in Anthropology

1. Complete five anthropological foundation courses chosen from a departmentally approved list in consultation with the guidance committee. The courses are designed to provide a strong postgraduate foundation in anthropology's subdisciplines, as well as to serve students' individual needs. The courses must be distributed in accordance with the student's subdisciplinary focus and must be completed before the comprehensive examination.
2. Complete Anthropology 840.
3. Complete at least one methods course as specified by the department in accordance with the student's subdisciplinary focus.
4. Pass the doctoral evaluation procedure at the end of both the first and second years in residence.
5. Complete a flexible program of elective study related to the student's special areas of interest.
6. Complete an original field research program as the basis for a dissertation.

Academic Standards

The student's performance in courses during both the first and second academic years of residence is evaluated to determine the student's ability to proceed with the doctoral program. Passing the doctoral evaluation procedure at the end of the second year in residence qualifies the student to proceed with the doctoral program.

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. 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 3.00 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

Edmund F. McGarrell, 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 undergraduate and graduate specializations in security management, a graduate specialization in forensic science, and in judicial administration, a Master of Science degree in Forensic Science, 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

- 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 434, 445, 456, 466, or 485. Those courses are referenced in item 3. a. (3) below.
- The requirements of the College of Social Science for the Bachelor of Arts degree.
- The following requirements for the major:

CREDITS	
a.	The following courses in the School of Criminal Justice: 30

- 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
- Two or three of the following courses (6 to 9 credits):

CJ 335	Policing	3
CJ 365	Corrections	3
CJ 355	Juvenile Justice	3
CJ 385	Private Security	3
- Nine to 12 credits from the following courses including 3 credits in Criminal Justice 434, 445, 456, 466, or 485. At least 9 credits must be at the 400-level.

CJ 210	Introduction to Forensic Science	4
CJ 235	Investigation Procedures	3
CJ 400H	Honors Study	1 to 3
CJ 421	Minorities, Crime, and Social Policy	3
CJ 422	Comparative and Historical Criminal Justice	3
CJ 425	Women and Criminal Justice	3
CJ 432	Community Policing	3
CJ 433	Law Enforcement Intelligence Operations	3
CJ 434	Police Administration (W)	3
CJ 445	Cyber-Crime and Cyber-Security (W)	3
CJ 455	Delinquency and Treatment Approaches	3
CJ 456	Criminal Careers and Career Criminals (W)	3
CJ 465	Correctional Programming and Analysis	3
CJ 466	Corrections Organizations and Systems (W)	3
CJ 471	Law of Corrections	3
CJ 474	Law and Criminal Justice Policy	4
CJ 485	Asset Protection Management (W)	3
CJ 490	Independent Study	1 to 3
CJ 491	Topics in Criminal Justice	2 to 4

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 Undergraduate 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 bachelor'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, and to students who are enrolled in the Bachelor of Science degree program in computer science.

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

- The business and technical aspects of protecting private and government assets.
- The administrative, management, technical, and legal problems of asset protection and loss prevention.
- Concepts related to protecting personal and personnel rights, proprietary information, facilities, and other assets of an organization.
- 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 bachelor's degree.

Requirements for the Undergraduate Specialization in Security Management

The student must complete:

- | | CREDITS |
|---|---------|
| 1. All of the following courses (18 credits): | |
| ACC 230 Survey of Accounting Concepts | 3 |
| CJ 335 Policing | 3 |
| CJ 385 Introduction to Private Security | 3 |
| CJ 435 Investigation Procedures | 3 |
| CJ 485 Asset Protection Management (W) | 3 |
| CJ 494 Criminal Justice Practicum | 3 |
| 2. One of the following courses (3 or 4 credits): | |

CSE 101	Computing Concepts and Competencies	3
CSE 231	Introduction to Programming I	4
3.	One of the following courses (3 credits):	
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

Upon completion of the requirements for the Specialization in Security Management, the student should contact the Director of the School of Criminal Justice and request certification for the completion of the specialization. After the certification is approved by the Director of the School and the Dean of the College of Social Science, the Office of the Registrar will enter on the student's academic record the name of the specialization and the date that it was completed. This certification will appear on the student's transcript.

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 forensics offers programs in forensic biology and chemistry.

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 legal 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.

The school also offers a graduate specializations in security management, forensic science, and in judicial administration; a Master of Science in Forensic Science; and a Master of Science in Law Enforcement Intelligence and Analysis.

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

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.

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 re-

SOCIAL SCIENCE
School of Criminal Justice

search 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, and 908.
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 Medical Technology 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 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 only under Plan A (with 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 course (3 credits):	
CJ 805 Survey in Forensic Science	3
2. One of the following concentrations:	
Forensic Chemistry (17 credits)	
CEM 835 Spectrochemical Methods of Analysis	3
CJ 817 Law and Forensic Science	2
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 (20 credits):	
BMB 801 Molecular Biology	3
CJ 817 Law and Forensic Science	2
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 (25 credits):	
ANP 441 Osteology and Forensic Anthropology	4
ANP 840 Biocultural Evolution	3
ANP 841 Physical Anthropology	3
ANP 842 Human Osteology	5
ANP 844 Topics in Forensic Anthropology	4
ANTR 551 Medical Gross Anatomy	6
Students must enroll for Anthropology 844 twice, in increments of 2 credits.	
3. Complete 6 credits in Forensic Science 899 Master's Thesis Research.	
4. Complete an additional 4 to 12 credits of electives chosen in consultation with the student's academic advisor.	
5. Pass an oral examination in defense of the thesis.	

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 439 Homeland Security 3
 - CJ 810 Proseminar in Criminal Justice 3
 - CJ 837 Counterterrorism and Intelligence 3
2. One of the following courses (3 credits):
 - CJ 801 Crime Causation, Prevention, and Control 3
 - CJ 822 Comparative Criminal Justice 3
 - CJ 823 Globalization of Crime 3
 - CJ 838 Issues in Terrorism 3
 - CJ 873 Legal Issues in Criminal Justice 3
3. All of the following courses (12 credits):
 - CJ 433 Law Enforcement Intelligence Operations 3
 - CJ 811 Design and Analysis in Criminal Justice Research 3
 - CJ 839 Analytic Thinking and Intelligence 3
 - CJ 887 Quantitative Methods in Criminal Justice Research 3
4. The following course (3 credits):
 - CJ 896 Policy Analysis under Conditions of Change 3
5. Complete an additional 3 credits of electives as approved by the student's guidance committee.
6. 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 Sci-

ence, 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 student's 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.

Upon completion of the requirements for the Graduate Specialization in Forensic Science, the student should contact the School of Criminal Justice and request certification for the completion of the specialization. After the certification is approved by the Chairperson of the School of Criminal Justice and the Dean of the College of Social Science, the Office of the Registrar will enter on the student's academic record the name of the specialization and the date that it was completed. This certification will appear on the student's transcript.

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. 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 809 Issues in Criminal Justice	3
CJ 812 Criminal Justice Management Seminar	3
CJ 814 Seminar in Management Topics	3
CJ 829 National and Global Trends in Court Planning	3
Equivalent courses may be substituted with approval of the Criminal Justice academic advisor.	

Upon completion of the requirements for the Graduate Specialization in Judicial Administration, the student should contact the Director of the School of Criminal Justice and request certification for the completion of the specialization. After the certification is approved by the Director of the School of Criminal Justice and the Associate Dean of the College of Social Science, the Office of the Registrar will enter on the student's academic record the name of the specialization and the date that it was completed. This certification will appear on the student's transcript.

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:

	CREDITS
The student must complete:	
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

Upon completion of the requirements for the master's degree and the requirements for the Graduate Specialization in Security Management, the student should contact the Director of the School of Criminal Justice and request certification for the completion of the specialization. After the certification is approved by the Director of the School and the Dean of the College of Social Science, the Office of the Registrar will enter on the student's academic record the name of the specialization and the date that it was completed. This certification will appear on the student's transcript.

DEPARTMENT of ECONOMICS

Carl Davidson, Chairperson

UNDERGRADUATE PROGRAMS

The Department of Economics offers Bachelor of Arts and Bachelor of Science degrees in Economics. These 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, law, management, and consulting; for careers in national, state, and local governments; in teaching; and for 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, data analysis or 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 and the university. All students are encouraged to develop programs of study that are tailored to their individual needs and interests.

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
Capstone Course	
EC 499	Senior Seminar for Economics Majors (W)

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.

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 499. That course is referenced in item 3. a. below.
- The requirements of the College of Social Science for the Bachelor of Arts degree.
Students pursuing the Bachelor of Arts Degree in Economics are required to complete a minimum of 6 credits from the following courses for the College of Social Science NATURAL SCIENCE REQUIREMENT.
One of the following courses (3 credits):
CSE 101 Computing Concepts and Competencies 3
CSE 131 Technical Computing and Problem Solving 3
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

CREDITS
30

- The following requirements for the major: 30
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. a. below, students must have a grade-point average of 2.0 in all attempted Economics courses.
 - All of the following courses in the Department of Economics (18 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
EC 499 Senior Seminar for Economics Majors (W) 3
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. c. 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. c.
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. c. by completing at least 3 credits in Economics courses at the 300-400 level, in addition to the 9 credits referenced in item 3. c.
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. c. 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. c.
 - One of the following courses in the international area (3 credits): Economics 306, 310, 340, 406, 410, 412, 413, 414, 440, and 441.
 - Nine additional credits in economics courses, of which at least 6 credits must be at the 400-level.

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

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 Economics 499, referenced in item 3. a. 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
CSE 232 Introduction to Programming II 4
MTH 133 Calculus II 4
MTH 153H Honors Calculus II 3
MTH 234 Multivariable Calculus 4
MTH 235 Differential Equations 3
MTH 254H Honors Multivariable Calculus 3
MTH 255H Honors Differential Equations 3
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
STT 471 Statistics for Quality and Productivity 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.

CREDITS

- The following requirements for the major: 30
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. a. below, students must have a grade-point average of 2.0 in all attempted Economics courses.
 - All of the following courses in the Department of Economics (18 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
EC 499 Senior Seminar for Economics Majors (W) 3
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. c. 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. c.
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. c. by completing at least 3 credits in Economics courses at the 300-400 level, in addition to the 9 credits referenced in item 3. c.
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. c. 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. c.
 - One of the following courses in the international area (3 credits): Economics 306, 310, 340, 406, 410, 412, 413, 414, 440, and 441.
 - Nine additional credits in economics courses, of which at least 6 credits must be at the 400-level.

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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.

TEACHER CERTIFICATION OPTIONS

The economics disciplinary major leading to the Bachelor of Arts or Bachelor of Science degree is available for teacher certification. An economics disciplinary minor is also available for teacher certification. Students who elect the economics disciplinary major or 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.

GRADUATE STUDY

The Department of Economics offers work leading to the Master of Arts and Doctor of Philosophy degrees in preparation for professional careers in business, government, teaching, or research.

The fields of specialization are:

- History of Economic Thought
- Advanced Economic Theory
- Econometrics
- Labor Economics
- Industrial Organization
- Advanced Macro and Monetary Economics
- Public Economics
- International Economics
- Economic Development

Doctoral students must qualify in general economic theory, methods, and in two fields of specialization. Substitution of a field in another discipline is possible.

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.

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ENG 351	Chicano and Latino Literatures in English	3
ENG 352	Asian American Writing	3
ENG 353	Woman and Literature	3
ENG 354	Native American Literature	3
ENG 360	Postcolonial Literature and Theory	3
ENG 361	Asian Literature in English or in English Translation	3
ENG 363	African Literature	3
ENG 379	American Woman Writers	3
ENG 426B	Comparative Drama: Renaissance and Baroque	3
ENG 426D	Comparative Drama: Ibsen to World War II	3
ENG 426E	Comparative Drama: 1945 to the Present	3
ENG 436A	Comparative Fiction: Western	3
ENG 463	Studies in the Literature of Africa and the African Diaspora	3

Additional courses required to complete the Professional Education and Planned Program Course Requirements for Elementary and Teacher Certification:

GEO 204	World Regional Geography	3
IAH 241A	Creative Arts and Humanities: Music and Society in the Modern World (D)	4
or		
IAH 241C	Creative Arts and Humanities: Cultural and Artistic Traditions of Europe	4
or		
IAH 241E	Creative Arts and Humanities: The Creative Process	4
ISS 220	Time, Space and Change in Human Society (D)	4
SME 301	Science for Elementary Schools	3
Integrative Studies in Arts and Humanities 241A, 241C and 241E and Integrative Studies in Social, Behavioral and Economic Sciences 220 may also be used to fulfill the University requirement for integrative studies.		

Integrated Teaching Major in Social Studies. The student must complete at least 37 or 38 credits in the Integrated Teaching Major in Social Studies and meet the following requirements:

Complete one of the following concentrations:

History (38 credits):

- (1) All of the following courses (15 credits):

EC 201	Introduction to Microeconomics	3
EC 202	Introduction to Macroeconomics	3
GEO 204	World Regional Geography	3
PLS 100	Introduction to American National Government	3
PLS 324	American Legislative Process	3
- (2) One of the following courses (3 credits):

GEO 206	Physical Geography	3
GEO 330	Geography of the United States and Canada	3
GEO 333	Geography of Michigan and the Great Lakes Region	3
- (3) All the following history courses (17 credits):

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
HST 413	Families in Historical Perspective	3
- (4) Elective. Additional 3 credits of History at the 300-400 level.

Geography (37 credits):

- (1) All of the following courses (12 credits):

EC 201	Introduction to Microeconomics	3
EC 202	Introduction to Macroeconomics	3
PLS 100	Introduction to American National Government	3
PLS 324	American Legislative Process	3
- (2) One of the following courses (4 credits):

HST 202	U.S. History to 1876	4
HST 203	U.S. History since 1876	4
- (3) One of the following courses (3 credits):

HST 320	History of Michigan	3
HST 413	Families in Historical Perspective	3
- (4) One of the following geography courses (3 credits):

GEO 113	Introduction to Economic Geography	3
GEO 151	Cultural Geography	3
- (5) One of the following courses (3 credits):

GEO 330	Geography of the United States and Canada	3
GEO 333	Geography of Michigan and the Great Lakes Region	3
- (6) All of the following courses (9 credits):

GEO 204	World Regional Geography	3
GEO 206	Physical Geography	3
GEO 221	Introduction to Geographic Information	3
- (7) Elective. Additional 3 credits of Geography at the 300-400 level.

Additional courses required to complete the Professional Education and Planned Program Course Requirements for Elementary and Teacher Certification:

CSD 333	Oral Language Development	3
or		
ENG 302	Introduction to English Language Studies	3
or		
LIN 200	Introduction to Language	3

IAH 241A	Creative Arts and Humanities: Music and Society in the Modern World (D)	4
or		
IAH 241C	Creative Arts and Humanities: Cultural and Artistic Traditions of Europe	4
or		
IAH 241E	Creative Arts and Humanities: The Creative Process	4
ISS 220	Time, Space and Change in Human Society (D)	4
SME 301	Science for Elementary Schools	3
TE 348	Reading and Responding to Children's Literature	3
Integrative Studies in Arts and Humanities 241A, 241C and 241E and Integrative Studies in Social, Behavioral and Economic Sciences 220 may also be used to fulfill the University requirement for integrative studies.		

FAMILY COMMUNITY SERVICES

The family community services program offers students the opportunity to earn a Bachelor of Science or a Bachelor of Arts degree in Family Community Services.

In either 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. Students select a concentration to focus on early childhood education, child and youth development, or adult development and are expected to work in community agencies as a volunteer during the course of their study.

Requirements for the Bachelor of Arts Degree in Family Community Services

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 Family Community Services.

The University's Tier II writing requirement for the Family Community Services major is met by completing either Family and Child Ecology 321 or 347. Those courses are referenced in item 3. below.

The completion of Computer Science and Engineering 101 and Human Nutrition and Foods 150 fulfills the College of Social Science NATURAL SCIENCE REQUIREMENT, referenced in section I. A. 2. under the heading *Graduation Requirements for the Bachelor of Arts and Bachelor of Science Degrees* in the college statement.

The completion of Interior Design 458, Psychology 101, Sociology 100 and 330 fulfills the College of Social Science SOCIAL SCIENCE REQUIREMENT, referenced in section I.C. under the heading *Graduation Requirements for the Bachelor of Arts and Bachelor of Science Degrees* in the college statement.

The completion of Mathematics 110 or Statistics and Probability 200 or 201 referenced in item 3. below may also satisfy the university mathematics requirement.
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:	24
	FCE 145 The Individual, Marriage, and the Family	3
	FCE 270 Introduction to Family Community Services	4
	FCE 345 Principles of Family Studies	3
	FCE 442 Ethnic Families in America	3
	FCE 472 Evaluation of Human Service Programs	3
	FCE 491 Internship Preparation	1
	FCE 492 Internship Seminar	1
	FCE 493 Internship	6
b.	One of the following courses:	3
	FCE 280 Community as Context for Individual and Family Development	3
	PSY 270 Community Psychology	3
c.	One of the following courses:	3 to 5
	MTH 110 Finite Mathematics and Elements of College Algebra	5
	STT 200 Statistical Methods	3
	STT 201 Statistical Methods	4
d.	One of the following concentrations:	34 to 42

Early Childhood Education (34 credits)

- (1) All of the following courses (25 credits):

FCE 211	Child Growth and Development: Conception Through Early Childhood	3
FCE 320	Interaction Processes with Children in Groups	3
FCE 320L	Interaction with Children - Laboratory	1
FCE 321	Curriculum for Early Childhood Programs	3
FCE 321L	Curriculum for Early Childhood Programs - Laboratory	1
FCE 322	Infant Development and Program Planning	3
FCE 411	Developmental Study of a Child	2
FCE 424	Student Teaching in an Early Childhood Program	6
FCE 473	Administration of Early Childhood Programs	3
- (2) One of the following courses (3 credits):

FCE 405	Work and Family	3
FCE 414	Parenting	3
FCE 448	Child and Family Policy	3
FCE 449	Children and Youth with Special Needs and Their Families	3
FCE 470	Current Issues in Family and Child Ecology	3
Family and Child Ecology 470 may only be taken with advisor approval.		
(3)	Both of the following courses (6 credits):	
CSE 101	Computing Concepts and Competencies	3
HNF 150	Introduction to Human Nutrition	3
Child and Youth Development (35 or 36 credits)		
(1)	All of the following courses (16 credits):	
FCE 211	Child Growth and Development: Conception Through Early Childhood	3
FCE 212	Children, Youth and Family	3
FCE 238	Personal Finance	3
FCE 347	Programming in Family Community Services	4
FCE 447	Management of Family Community Services Programs	3
(2)	One of the following (3 or 4 credits):	
FCE 346	Help Skills in Family Community Services	3
or		
FCE 320	Interaction Processes with Children in Groups	3
and		
FCE 320L	Interaction Children – Laboratory	1
(3)	One of the following courses (3 credits):	
FCE 414	Parenting	3
FCE 449	Children and Youth with Special Needs and Their Families	3
(4)	One of the following courses (3 credits):	
FCE 405	Work and Family	3
FCE 444	Interpersonal Relationships in the Family	3
FCE 445	Human Sexuality	3
FCE 448	Child and Family Policy	3
FCE 470	Current Issues in Family and Child Ecology	3
Family and Child Ecology 470 may only be taken with advisor approval.		
(5)	Both of the following courses (6 credits):	
CSE 101	Computing Concepts and Competencies	3
HNF 150	Introduction to Human Nutrition	3
(6)	One of the following courses (4 credits):	
PSY 101	Introductory Psychology	4
SOC 100	Introduction to Sociology	4
Adult Development (42 credits)		
(1)	All of the following courses (23 credits):	
FCE 238	Personal Finance	3
FCE 346	Helping Skills in Family Community Services	3
FCE 347	Programming in Family Community Services	4
FCE 413	Adult Development and the Family: Middle and Later Years	4
FCE 447	Management of Family Community Services Programs	3
FCE 448	Child and Family Policy	3
FCE 454	Family Financial Management	3
(2)	One of the following courses (3 credits):	
FCE 225	Ecology of Lifespan Human Development in the Family	3
FCE 414	Parenting	3
FCE 449	Children and Youth with Special Needs and Their Families	3
(3)	One of the following courses (3 credits):	
FCE 405	Work and Family	3
FCE 444	Interpersonal Relationships in the Family	3
FCE 445	Human Sexuality	3
FCE 470	Current Issues in Family and Child Ecology	3
Family and Child Ecology 470 may only be taken with advisor approval.		
(4)	Both of the following courses (6 credits):	
CSE 101	Computing Concepts and Competencies	3
HNF 150	Introduction to Human Nutrition	3
(5)	One of the following courses (4 credits):	
PSY 101	Introductory Psychology	4
SOC 100	Introduction to Sociology	4
(6)	One of the following courses (3 credits):	
IDES 458	Housing from a Human Ecological Perspective	3
SOC 330	Social Stratification	3

Requirements for the Bachelor of Science Degree in Family Community Services

- 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 Family Community Services.
The University's Tier II writing requirement for the Family Community Services major is met by completing either Family and Child Ecology 321 or 347. Those courses are referenced in item 3. below.
The completion of Computer Science and Engineering 101 and Human Nutrition and Foods 150 fulfills the College of Social Science NATURAL SCIENCE REQUIREMENT, referenced in section II. A. 2. under the heading *Graduation Requirements for the Bachelor of Arts and Bachelor of Science Degrees* in the college statement.

The completion of Interior Design 458, Psychology 101, Sociology 100 and 330 fulfills the College of Social Science SOCIAL SCIENCE REQUIREMENT, referenced in section I.C. under the heading *Graduation Requirements for the Bachelor of Arts and Bachelor of Science Degrees* in the college statement.

- The completion of Mathematics 110 or Statistics and Probability 200 or 201 referenced in item 3. below may also satisfy the university mathematics requirement.
- The requirements of the College of Social Science for the Bachelor of Science degree.
- The following requirements for the major.

		CREDITS
a.	All of the following courses:	24
FCE 145	The Individual, Marriage, and the Family	3
FCE 270	Introduction to Family Community Services	4
FCE 345	Principles of Family Studies	3
FCE 442	Ethnic Families in America	3
FCE 472	Evaluation of Human Service Programs	3
FCE 491	Internship Preparation	1
FCE 492	Internship Seminar	1
FCE 493	Internship	6
b.	One of the following courses:	3
FCE 280	Community as Context for Individual and Family Development	3
PSY 270	Community Psychology	3
c.	One of the following courses:	3 to 5
MTH 110	Finite Mathematics and Elements of College Algebra	5
STT 200	Statistical Methods	3
STT 201	Statistical Methods	4
d.	One of the following concentrations:	34 to 38
Early Childhood Education (34 credits)		
(1)	All of the following courses (25 credits):	
FCE 211	Child Growth and Development: Conception Through Early Childhood	3
FCE 320	Interaction Processes with Children in Groups	3
FCE 320L	Interaction with Children – Laboratory	1
FCE 321	Curriculum for Early Childhood Programs	3
FCE 321L	Curriculum for Early Childhood Programs – Laboratory	1
FCE 322	Infant Development and Program Planning	3
FCE 411	Developmental Study of a Child	2
FCE 424	Student Teaching in an Early Childhood Program	6
FCE 473	Administration of Early Childhood Programs	3
(2)	One of the following courses (3 credits):	
FCE 405	Work and Family	3
FCE 414	Parenting	3
FCE 448	Child and Family Policy	3
FCE 449	Children and Youth with Special Needs and Their Families	3
FCE 470	Current Issues in Family and Child Ecology	3
Family and Child Ecology 470 may only be taken with advisor approval.		
(3)	Both of the following courses (6 credits):	
CSE 101	Computing Concepts and Competencies	3
HNF 150	Introduction to Human Nutrition	3
Child and Youth Development (35 or 36 credits)		
(1)	All of the following courses (16 credits):	
FCE 211	Child Growth and Development: Conception Through Early Childhood	3
FCE 212	Children, Youth and Family	3
FCE 238	Personal Finance	3
FCE 347	Programming in Family Community Services	4
FCE 447	Management of Family Community Services Programs	3
(2)	One of the following (3 or 4 credits):	
FCE 346	Help Skills in Family Community Services	3
or		
FCE 320	Interaction Processes with Children in Groups	3
and		
FCE 320L	Interaction with Children – Laboratory	1
(3)	One of the following courses (3 credits):	
FCE 414	Parenting	3
FCE 449	Children and Youth with Special Needs and Their Families	3
(4)	One of the following courses (3 credits):	
FCE 405	Work and Family	3
FCE 444	Interpersonal Relationships in the Family	3
FCE 445	Human Sexuality	3
FCE 448	Child and Family Policy	3
FCE 470	Current Issues in Family and Child Ecology	3
Family and Child Ecology 470 may only be taken with advisor approval.		
(5)	Both of the following courses (6 credits):	
CSE 101	Computing Concepts and Competencies	3
HNF 150	Introduction to Human Nutrition	3
(6)	One of the following courses (4 credits):	
PSY 101	Introductory Psychology	4
SOC 100	Introduction to Sociology	4
Adult Development (38 credits)		
(1)	All of the following courses (23 credits):	
FCE 238	Personal Finance	3
FCE 346	Helping Skills in Family Community Services	3
FCE 347	Programming in Family Community Services	4
FCE 413	Adult Development and the Family: Middle and Later Years	4

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	FCE 447	Management of Family Community Services Programs	3
	FCE 448	Child and Family Policy	3
	FCE 454	Family Financial Management	3
(2)	One of the following courses (3 credits):		
	FCE 225	Ecology of Lifespan Human Development in the Family	3
	FCE 414	Parenting	3
	FCE 449	Children and Youth with Special Needs and Their Families	3
(3)	One of the following courses (3 credits):		
	FCE 405	Work and Family	3
	FCE 444	Interpersonal Relationships in the Family	3
	FCE 445	Human Sexuality	3
	FCE 470	Current Issues in Family and Child Ecology	3
	Family and Child Ecology 470 may only be taken with advisor approval.		
(4)	Both of the following courses (6 credits):		
	CSE 101	Computing Concepts and Competencies	3
	HNF 150	Introduction to Human Nutrition	3
(5)	One of the following courses (3 credits):		
	IDES 458	Housing from a Human Ecological Perspective	3
	SOC 330	Social Stratification	3

TEACHER CERTIFICATION OPTIONS

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

Child Development students applying to the Teacher Certification Program in the College of Education must take Family and Child Ecology 211 with a grade of 2.0 or better in order to be accepted into the major. This requirement applies to freshmen entering Michigan State University in Fall 2000 or later. Students in the process of applying must have completed or must be enrolled in Family and Child Ecology 211 during the semester of application. Those who are otherwise admissible to the Teacher Certification program and who are currently enrolled in Family and Child Ecology 211 will be admitted provisionally dependent on passing the classes with a grade of 2.0 or higher.

Students with a child development disciplinary major may substitute Family and Child Ecology 212 and 442 for Teacher Education 250 or Counseling, Educational Psychology and Special Education 240.

Students who elect the child development disciplinary major must contact the Department of Family and Child Ecology.

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 Family and Child Ecology 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:

Master of Arts

- Child Development
- Family Studies
- Marriage and Family Therapy
- Youth Development

Master of Science

- Community Services

Doctor of Philosophy

- Family and Child Ecology

All graduate programs in the department are designed to develop professional competence, to encourage creative thinking, and to prepare the student 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.

Challenging careers to which advanced degrees may lead include college teaching, research, extension, teaching, 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 Family and Child Ecology for graduate students to participate in on-going interdisciplinary research and in field experiences in school or community settings. The Child Development Laboratories 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 Family and Child Ecology 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 Arts Degree in Child Development

In this program, attention is focused upon the growth and development of children and youth in the family setting. Students also may focus on early childhood education, which includes the administration of early childhood education centers and teacher-parent interaction.

Courses in the physical, social, emotional, and intellectual development of children and youth may be included in the program, as well as supporting courses in psychology, sociology, and education. Laboratory experience with young children is available.

Master of Arts Degree in Family Studies

This program emphasizes interpersonal relationships in the family and the interdependence of the family unit with other social systems. Studies include courses in family theory, human sexuality, aging, and family crises.

The major work is interdisciplinary in character. Courses are drawn from the departments of Family and Child Ecology, Psychology, and Sociology and others. The minor may be selected from such fields as sociology, psychology, counseling and guidance, or social work.

Master of Arts Degree in Marriage and Family Therapy

The master's degree in marriage and family therapy is not a terminal degree program. The program is integrally related to the Doctor of Philosophy in Family and Child Ecology in the department. Both the master's and doctoral programs prepare individuals for licensure in the State of Michigan.

The master's degree program is a Plan B (without thesis) degree is designed to prepare the individual for clinical practice as a marriage and family therapist. A minimum of 36 credits and additional supervised clinical practicum credits are required for the degree.

Those individuals who want to pursue research-intensive training will need to be admitted to the Doctor of Philosophy in Family and Child Ecology degree program.

Individuals admitted to the Master of Arts degree in Marriage and Family Therapy with other non-marriage and family therapy clinical master's degrees will be required to remove deficiencies in marriage and family therapy course work.

The Marriage 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. Re-accreditation is effective through January 2008.

Master of Arts Degree in Youth Development

The Master of Arts in Youth Development, is a collaborative, multi-institutional 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 four land-grant universities: Michigan State University, Colorado State University, Kansas State 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.

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. Nine core courses (3 credit hours each):
 - Community Youth Development (FCE 861)
Michigan State University
 - Youth Policy and Positive Youth Development (FCE 860)
Michigan State University
 - Adolescents and Their Families
Montana State University

Program Design, Evaluation, and Implementation
Colorado State University
University of Nebraska

Youth Professionals as Consumers of Research
Montana State University
University of Nebraska

Administration and Program Management
Kansas State University

Youth Development
University of Nebraska

Seminar in Family and Child Ecology
(Youth in Cultural Contexts) (FCE 892)
Michigan State University

Youth Issues/Life Skills
Montana State University
(2 credits in conjunction with 1 additional 1 credit module on a specific Contemporary Youth Issue)
Contemporary Youth Issues: Violence (or other topics)
Kansas State University or University of Nebraska
(1 credit module offered with Youth Issues/Life Skills course)

2. Professional-development seminar (1 credit hour):
Foundations of Youth Development
Montana State University
3. 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.
4. Pass a final examination or evaluation.
Michigan State University students should contact the Department of Family and Child Ecology or consult the Michigan State University *Schedule of Courses* for current course schedule and other information.

Master of Science Degree in Community Services

The program provides an opportunity for students to put course work from all departments of the college into a family-based community perspective. It is designed for persons in education and social action roles who are interested in an ecologically based general program of study at the graduate level. Each student's program is planned in consultation with a major advisor and a committee representing the departments within the college in which the student designates a special emphasis. The student's program of study focuses on child, youth, or adult development.

Doctor of Philosophy

Doctor of Philosophy Degree in Family and Child Ecology

The unique feature of the doctoral program in family and child ecology is its emphasis on the integration of human development, and family science. Students also will pursue an area of specialization in child development, family science, or marriage and family therapy.

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 family and child ecology 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 family and child ecology with marriage and family therapy as the area of specialization, an applicant must have completed Michigan State University's Master of Arts degree program with a major in marriage and family therapy or the equivalent. Students who select the marriage and family therapy area must participate in a personal interview with a selected faculty committee. Students who select the marriage and family area are admitted to the degree program in Fall semester only.

Requirements for the Degree

Students in the doctoral program in family and child ecology who select the marriage and family therapy area of specialization are required to complete a supervised clinical internship. The Marriage 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 2008..

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

DEPARTMENT of GEOGRAPHY

Richard E. Groop, 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. Career oriented specializations are available in spatial information processing, geographic information systems, remote sensing, and regional development.

UNDERGRADUATE PROGRAMS

The Department of Geography offers programs in 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.

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 or 480. Those courses are referenced in item 3. below.
2. The requirements of the College of Social Science for the Bachelor of Science degree. The College's NATURAL SCIENCE REQUIREMENT for the Geographic Information Science 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.

CREDITS
30 to 32

3. The following required major courses:

a.	One of the following courses (3 or 4 credits):	
	GEO 113 Introduction to Economic Geography	3
	GEO 151 Cultural Geography	3
	GEO 206 Physical Geography	3
	GEO 206L Physical Geography Laboratory	1
	Students who choose Geography 206 must also enroll in Geography 206L.	
b.	All of the following courses (16 credits):	
	GEO 221 Introduction to Geographic Information	3
	GEO 324 Remote Sensing of the Environment	4
	GEO 325 Geographic Information Systems	3
	GEO 425 Problems in Geographic Information Science (W)	3
	GEO 463 Introduction to Quantitative Methods for Geographers and Planners	3
c.	A minimum of 11 credits selected from the following:	
	GEO 419 Applications of Geographic Information Systems to Natural Resource Management	4
	GEO 423 Cartographic Design and Production	4
	GEO 424 Advanced Remote Sensing	4
	GEO 426 Thematic Cartography	4
	GEO 428 Digital Terrain Analysis	4
	GEO 453 Metropolitan Environments: Urban Forms and Land Uses	3
	GEO 480 Senior Seminar (W)	3
	GEO 498 Internship in Geography	3

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.

	CREDITS
3. The following required major courses:	31
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
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.	

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.

	CREDITS
3. The following required major courses:	31
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.	

SPATIAL INFORMATION PROCESSING SPECIALIZATION

The spatial information processing specialization, which is administered by the Department of Geography, 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 requirements for the specialization may also be used to satisfy the requirements for the bachelor's degree.

The spatial information processing specialization is designed to develop academic expertise and professional competence in collecting, manipulating, analyzing, and displaying spatially-referenced information through the geographic subdisciplines of cartography, remote sensing, and geographic information systems.

Students who plan to complete the requirements for the spatial information processing specialization should contact the under-

graduate advisor for spatial information processing in the Department of Geography.

Requirements for the Spatial Information Processing Specialization

	CREDITS
The student must complete a minimum of 21 credits in courses as specified below:	
1. The following course:	3
GEO 221 Introduction to Geographic Information	3
2. One of the following courses:	3
GEO 490 Independent Study	3
GEO 498 Internship in Geography	3
3. Four of the following courses:	15 or 16
GEO 324 Remote Sensing of the Environment	4
GEO 326 Thematic Cartography	4
GEO 423 Map Production and Design	4
GEO 424 Advanced Remote Sensing	4
GEO 463 Introduction to Quantitative Methods for Geographers and Planners	3

Upon completion of the requirements for the spatial information processing specialization, the student should contact the Chairperson of the Department of Geography and request certification for the completion of the specialization. After the certification is approved by the Chairperson of the Department of Geography and the Dean of the College of Social Science, the Office of the Registrar will enter on the student's academic record the name of the specialization and the date that it was completed. This certification will appear on the student's transcript.

MINOR IN GEOGRAPHY

The Minor in Geography, which is administered by the Department of Geography, 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. At least 12 unique credits counted towards the requirements for a student's minor must not be used to fulfill the requirements for that student's major.

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 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, 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. At least 12 unique credits counted towards the requirements for a student's minor must not be used to fulfill the requirements for that student's major.

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 Geographic Information Science

	CREDITS
Complete a minimum of 20 credits in the Department of Geography from the following:	
1. The following course (3 credits):	
GEO 221 Introduction to Geographic Information	3
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
GEO 494 Remote Sensing Field Techniques	2
Additional courses as approved by the student's academic advisor.	

TEACHER CERTIFICATION OPTIONS

A geography disciplinary minor is available for teacher certification.

Students who elect the geography disciplinary minor must contact the Department of Geography 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 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 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.

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 course 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. 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 Information 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:

	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 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.

DEPARTMENT of HISTORY

Mark L. Kornbluh, 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 provide a rich array of offerings, many of which focus on issues of race, ethnicity, 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 and insightful manner. History courses emphasize learning how to identify viewpoints, gather and organize historical information, 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; and research.

UNDERGRADUATE PROGRAM

The department offers a Bachelor of Arts degree program for students majoring in 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, or 488. 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.
 The completion of 12 of the 15 credits required for the College of Social Science SOCIAL SCIENCE REQUIREMENT (referenced in section I. A. under the heading *Graduation Requirements for the Bachelor of Arts and Bachelor of Science Degrees* in the college statement), must either be taken in one disciplinary department or have a thematic unity. A thematic unity must be approved by the undergraduate advisor for History majors.
3. The following requirements for the major:

	CREDITS
a. The following History courses:	33 to 40
(1) The following course (3 credits):	
HST 201 Historical Methods and Skills	3
(2) 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 European History to 1500	4
HST 206 European History since 1500	4
HST 209 Traditional East Asia	4
HST 210 Modern East Asia	4
(3) 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 492H Senior Honors Seminar	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.	
<i>Exception:</i> credits in History 490 or 499H may not be used to satisfy this requirement.	
(4) A minimum of 6 credits in History courses in each of the following areas:	
(a) United States History	
(b) European History	
(c) African, Asian, or Latin American History	
(5) History electives: Additional credits in History courses at the 300–400 level as needed to meet the requirement of at least 33, but not more than 40, credits in courses in the major.	
b. Second-year competency in a foreign language. This requirement may be satisfied by placing into a 300-level foreign language course based on a Michigan State University placement test. Credits used to satisfy this requirement may be used to satisfy the College of Social Science requirement of credits in courses in the College of Arts and Letters.	

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

Upon completion of the requirements for the Specialization in African American History and Culture, the student should contact the Chairperson of the Department of History and request certification for the completion of the specialization. After the certification is approved by the chairperson of the department and the Dean of the College of Social Science, the Office of the Registrar will enter on the student's academic record the name of the specialization and the date that it was completed. This certification will appear on the student's transcript.

TEACHER CERTIFICATION OPTIONS

The history 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 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. In addition, to respond to particular needs of current or prospective secondary-school history teachers, the department offers a Master of Arts degree program with a major in history-secondary school teaching. 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 be-

low 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

SOCIAL SCIENCE
Department of 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 doctoral 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 be-

low 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.
 - 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.

SCHOOL of LABOR and INDUSTRIAL RELATIONS

William N. Cooke, Director

Through its research and educational programs, the School of Labor and Industrial 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 in the country, with approximately 2500 alumni who hold top executive positions in human resources and labor relations in both the private and public sectors.

Research and Program Services

RESEARCH PROGRAM. Faculty engage in multidisciplinary research addressing human resource and labor relations policies that optimize opportunities for organizations to achieve competitive advantage and for employees to enjoy rewarding work and family lives. Specific topics include global human resource management and labor relations strategies, international employment systems, multiculturalism and diversity, union-management cooperation, flexible work practices, employment and labor laws, talent acquisition, organizational development and change management, high-performance work systems, human resource information systems, and labor market dynamics and public policy.

HUMAN RESOURCES EXECUTIVE EDUCATION AND DEVELOPMENT. The school provides non-credit education and development for working professionals covering the full range of knowledge and skills required to effectively lead and manage human resources and labor relations in today's highly competitive and uncertain global marketplace. Delivered through a mix of open-enrollment and custom-designed in-class, online, and coaching alternatives, educational and development opportunities are available for entry-level and mid-level managers and for top executives with responsibilities for human resource and labor strategies, policies, and practices within their organizations.

LABOR EDUCATION AND DEVELOPMENT. The school provides training, consultation, conferences, and workshops designed to help workers, unions, businesses, and public agencies create effective organizational and labor-management relationships that benefit the workforce and enhance organizational effectiveness. Within its labor and development programming options are programs that focus on business strategy solutions for small- and medium-sized employers, joint labor-management decision-making and negotiations, and union leadership and administration.

GRADUATE STUDY

HUMAN RESOURCES and LABOR RELATIONS

The school offers a professional program of study leading to a Master of Human Resources and Labor Relations (MHRL) degree. This program is for students interested in human resources and labor-management relations decisions who plan to pursue careers in business, government, or unions. In industry there are opportunities for men and women in human resources or industrial relations departments. Government agencies at the federal and state levels employ trained specialists to administer laws and programs dealing with labor-management relations, social security, worker's compensation, and other aspects of labor and industrial relations and human resources decisions. Labor unions seek trained people for staff positions in their education and research departments and in other activities. Community colleges and universities employ MHRL graduates to teach in labor and management extension programs.

Students who meet the undergraduate prerequisites may be able to complete the MHRL degree in four semesters of full-time study. For students who are employed during the day, the school normally offers all courses required for the MHRL degree and most of its elective courses in the evening, at least once every four years.

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 degree program, a student must have a bachelor's degree and a grade-point average of 3.00 or better in the junior and senior years. All applicants must have satisfactory scores on the Graduate Record Examination (GRE) General Test or on the Graduate Management Admission Test (GMAT). Applicants should have completed one course in micro-economic principles, one course in statistics, and one introductory course in behavioral science, with acceptable grades specified by the department. In addition, applicants will be judged on the quality of their statement of objectives and three letters of reference from faculty members. Admission requirements may be higher when few program vacancies exist. Students with less than the specified prerequisites may be considered for admission to provisional status.

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:	21
LIR 809 Labor Markets	3
LIR 823 Organizational Behavior in Labor and Industrial Relations	3
LIR 824 Human Resource Strategies and Decisions	3
LIR 825 Compensation and Benefits Systems	3
LIR 832 Data Sources in Labor and Industrial Relations	3
LIR 858 Collective Bargaining	3
LIR 863 Law of Labor Management Relations	3
2. Additional credits in courses approved by the student's academic advisor or guidance committee.	15
Depending on the student's interests and career plans, courses in such areas as labor and industrial relations, economics, management, political science, psychology, social work, and sociology may be designated to satisfy this 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 Labor and Industrial Relations offers a Doctor of Philosophy degree in Industrial Relations and Human Resources to prepare students for a career as a scholar in employment relations or human resources in a tenure-track position 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.lir.msu.edu.

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

Students will complete course work and seminars within the School of Labor and Industrial Relations, within other departments in the university, and specifically in the areas of statistics and research methods. 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.

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 with a major 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 with majors in construction management, and interior design as well as a Bachelor of Landscape Architecture degree program 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.

URBAN AND REGIONAL PLANNING

The undergraduate program in urban and regional planning is intended to provide 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.

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

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 Urban and Regional Planning.
 The completion of Statistics and Probability 201 referenced in item 3.b. below may also be used to satisfy the University mathematics requirement. However, a course that is used to satisfy the University mathematics requirement may *not* be counted toward the College of Social Science NATURAL SCIENCE REQUIREMENT (referenced in section II. B. under the heading *Graduation Requirements for the Bachelor of Arts and Bachelor of Science Degrees* in the college statement).
 The University's Tier II writing requirement for the Urban and Regional Planning major is met by completing Urban Planning 343 or 365. Those courses are referenced in item 3. a. below.
2. The College of Social Science requirements for the Bachelor of Science degree.
 Courses taken to fulfill requirements 3.b., 3.c., and 3.d. in the major may, where applicable, be used to satisfy college requirements.
 The College's ARTS AND LETTERS REQUIREMENT for the Urban and Regional Planning major is met by completing 6 credits in courses chosen from the following disciplines: English, Linguistics, Music, Philosophy, Religious Studies, Studio Art, Theatre, and foreign language.
 The College's NATURAL SCIENCE REQUIREMENT for the Urban and Regional Planning major is met by completing 15 credits in courses in the natural sciences, chosen from two of the following disciplines: Biochemistry and Molecular Biology, Biological Science, Computer Science and Engineering, Mathematics, and Physics and Astronomy. Students should see their academic advisor to obtain a list of approved courses which will meet this requirement.
3. The following requirements for the major:

	CREDITS
a. All of the following Urban Planning Core Courses:	30
UP 201 The Role of Planning in Urban and Regional Development	4
UP 314 Methods for Investigation of Urban Systems	4
UP 324 Visual Communication and the Design Process	4
UP 343 Planning Theory: Ethics and Politics (W)	4
UP 353 Land Use Planning	4
UP 365 Planning Law (W)	3
UP 454 Local Economic Planning	3
UP 494 Planning Practicum	4
b. Other Required Courses:	19
CSE 101 Computing Concepts and Competencies (Track C or D)	3
EC 201 Introduction to Microeconomics	3
GEO 221 Introduction to Geographic Information	3
MTH 103 College Algebra	3
PLS 100 Introduction to American National	3

- Government 3
- STT 201 Statistical Methods 4
- c. Cognate Areas: At least two courses of no less than 3 credits in each of the following three subject areas. A list of approved courses must be obtained from the Program advisor 18
 - Environment
 - Urban Society
 - Government
- d. Advanced Guided Elective. One course of at least 3 credits, chosen from a list provided by the academic advisor.

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 Master of Arts degree programs with majors in environmental design, and interior design and facilities management; a Master of Science degree program in construction management, and a Doctor of Philosophy degree program with a major 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.

	CREDITS
The student must:	
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
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	

SOCIAL SCIENCE
School of Planning, Design and Construction

estate. The concentration course work must be approved by the student's academic advisor.

5. Successfully complete a final examination.

URBAN AND REGIONAL PLANNING

Master in Urban and Regional Planning

The graduate program leading to a degree of Master in Urban and Regional Planning at Michigan State University is structured to provide students with learning opportunities that enable them to develop mechanical skills and intellectual qualities necessary to address the broad and varied range of problems associated with urban development. It is intended that, upon completion of their studies, they should be able to enter the profession as competent practitioners.

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 the undergraduate, whose studies are divided between liberal education and technical studies, the graduate student is immersed exclusively in significant planning studies. The graduate program is designed to provide professional competence. The master's program in Urban and Regional Planning has been accredited by the American Planning Association.

After graduation, the student should be capable of assuming responsibilities on an intermediate level of a professional planning operation.

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 university with an acceptable academic record. The field of undergraduate study is not critical for acceptance, but course requirements for collateral studies will vary according to individual undergraduate backgrounds. Each student's program is composed to fit particular needs in accordance with undergraduate training and any planning experience the applicant may have had.

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 48 credits, at least 32 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:.....	42
1. <i>Urban planning core courses</i> (30 credits):	
UP 463 Introduction to Quantitative Methods for Geographers and Planners	3
UP 801 Concepts and Issues in Planning and Development.	4
UP 814 Applied Research Methods for Planning and Development	3
UP 823 Urban Land Management	4
UP 834 Urban Design and Project Development.	3
UP 844 Decision Theory for Urban Planning and Development	4
UP 865 Planning and Development Law	3
UP 894 Planning Practicum	4
UP 897 Research Writing Seminar	2
2. Concentration related to urban and regional planning (12 credits):	
One urban planning course and three other courses in <i>one</i> of the following related fields: economic development, land use and environment, or urban policy and analysis. All four of the courses must be approved by the student's academic advisor.	
Additional Requirements for Plan A:.....	6

1. The following course:		
UP 899 Master's Thesis Research.....	6	
Additional Requirements for Plan B:.....		6
1. The following course:		
UP 889 Master's Research	3	
2. Three additional credits in one or more courses approved by the student's academic advisor.		

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 800 level may be accepted toward the Master in Urban and Regional Planning degree.

For students who have been admitted to the dual JD-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. 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

Richard C. Hula, Chairperson

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.

Students in the Department of Political Science may select from three majors:

1. Political Science (General)
2. Political Science—Prelaw
3. Public Administration

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 420, 421, 422, 440, 460, 461, 470. 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.
The completion of Economics 201 and 202 referenced in item 3.b.(1) below partially satisfies the College of Social Science SOCIAL SCIENCE REQUIREMENT (referenced in section I. A. under the heading *Graduation Requirements for the Bachelor of Arts and Bachelor of Science Degrees* in the college statement).
The completion of the History or Philosophy course referenced in item 3. b. (2) below partially satisfies the College of Social Science NATURAL SCIENCE, AND ARTS AND LETTERS, REQUIREMENT (referenced in section I.B. under the heading *Graduation Requirements for the Bachelor of Arts and Bachelor of Science Degrees* in the college statement).
3. The following requirements for the major:

	CREDITS
a. The following courses in the Department of Political Science: . . .	33
(1) Two of the following courses (6 credits):	
PLS 100 Introduction to American National Government.	3
PLS 140 Government and Politics of the World.	3
PLS 160 Introduction to International Relations.	3
PLS 170 Introduction to Political Philosophy	3
(2) Both of the following courses (8 credits):	
PLS 200 Introduction to Political Science	4
PLS 201 Introduction to Methods of Political Analysis.	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 420 American Politics and Public Administration (W).	4
PLS 421 Moot Court and Legal Research in Federal Law (W)	4
PLS 422 Seminar in Political Science (W)	4
PLS 440 Comparative Politics (W).	4
PLS 460 International Relations (W)	4
PLS 461 Refugees, Displaced Persons, Exiles (W)	4
PLS 470 Political Thought (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.	
b. The following courses outside the Department of Political Science:	9
(1) Both of the following courses (6 credits):	
EC 201 Introduction to Microeconomics.	3
EC 202 Introduction to Macroeconomics	3
(2) One History or Philosophy course at the 300–400 level (3 credits).	

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) 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

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—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 420, 421, 422, 470. Those courses are referenced in item 3.a.(5) 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:	33
(1) All of the following courses (11 credits):	
PLS 100 Introduction to American National Government.	3
PLS 200 Introduction to Political Science	4
PLS 201 Introduction to Methods of Political Analysis.	4
(2) One of the following courses (3 credits):	
PLS 140 Government and Politics of the World.	3
PLS 160 Introduction to International Relations.	3
PLS 170 Introduction to Political Philosophy	3
(3) One of the following courses (3 credits):	
PLS 320 The American Judicial Process.	3
PLS 321 American Constitutional Law.	3
(4) 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	
(5) One of the following courses (4 credits):	
PLS 420 American Politics and Public Administration (W).	4
PLS 421 Moot Court and Legal Research in Federal Law (W)	4
PLS 422 Seminar in Political Science (W)	4
PLS 470 Political Thought (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.	
b. The following courses outside the Department of Political Science:	12 to 14
(1) Both of the following courses (6 credits):	
EC 201 Introduction to Microeconomics.	3
EC 202 Introduction to Macroeconomics	3
(2) Two approved history or philosophy courses at the 300–400 level from a list available in the Department of Political Science (6 to 8 credits).	

PUBLIC ADMINISTRATION and PUBLIC POLICY

The Public Administration and Public Policy major is designed to prepare students for careers in the national, state and local public service. It aims at a broad understanding of the goals and problems of public administration and how these relate to the technical specialties of public administration: budget analysis, planning, organization and management methods, and personnel administration. The major is also valuable preparation for those who intend to engage in research for public agencies or voluntary associations interested in the problems of government, including unions, chambers of commerce, business corporations, farm organizations and citizen research organizations. A master's degree program concentrating in public administration is also available for advanced work in preparation for an executive career in government.

Requirements for the Bachelor of Arts Degree in Public Administration and Public Policy

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 Public Administration and Public Policy.
 The University's Tier II writing requirement for the Public Administration and Public Policy major is met by completing Political Science 420 or 422. These courses are referenced in item 3.a.(4) below.
2. The requirements of the College of Social Science for the Bachelor of Arts degree.
 The completion of Economics 201 and 202 referenced in item 3.b.(1) below and one of the Economics courses referenced in item 3.b.(3) below satisfies the College Social Science SOCIAL SCIENCE REQUIREMENT (referenced in section I. A. under the heading *Graduation Requirements for the Bachelor of Arts and Bachelor of Science Degrees* in the college statement).
 The completion of the History or Philosophy course referenced in item 3.b.(2) below partially satisfies the College of Social Science NATURAL SCIENCE, AND ARTS AND LETTERS, REQUIREMENT (referenced in section I.B. under the heading *Graduation Requirements for the Bachelor of Arts and Bachelor of Science Degrees* in the college statement).
3. The following requirements for the major:

	CREDITS
a. The following courses in the Department of Political Science:	33
(1) All of the following courses (20 credits):	
PLS 100 Introduction to American National Government	3
PLS 200 Introduction to Political Science	4
PLS 201 Introduction to Methods of Political Analysis	4
PLS 310 Public Bureaucracy in the Policy Process	3
PLS 313 Public Policy Analysis	3
PLS 494 Field Experience in Political Science	3
(2) One of the following courses (3 credits):	
PLS 140 Government and Politics of the World	3
PLS 160 Introduction to International Relations	3
PLS 170 Introduction to Political Philosophy	3
(3) Two additional political science courses at the 300–400 level to total at least 6 credits.	
(4) One of the following courses (4 credits):	
PLS 420 American Politics and Public Administration (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. (3), at least two courses must be in comparative/international politics (PLS 140, PLS 160, PLS 342-359, and PLS 361-369), and one course 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.	
b. The following courses outside the Department of Political Science:	15 to 18
(1) Both of the following courses (6 credits):	
EC 201 Introduction to Microeconomics	3
EC 202 Introduction to Macroeconomics	3
(2) One approved History or Philosophy course at the 300–400 level from a list available in the Department of Political Science (3 or 4 credits).	
(3) Two approved Economics courses at the 300–400 level from a list available in the Department of Political Science (8 credits).	

TEACHER CERTIFICATION OPTIONS

A political science disciplinary minor is available for teacher certification.

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.

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.

In addition to meeting the requirements of the university and of the College of Social Science, 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 students who have been admitted to the dual JD-MA 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 MA program with a major in political science.

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 803 Quantitative Methods in Public Policy III	3
PPL 805 Microeconomic Theory	3
PPL 806 Policy Evaluation	3
PPL 807 Public Policy	3
PPL 808 Policy Development and Administration	3
PPL 809 Cost-Benefit Analysis in Public Policy	3
PPL 810 Incentives and Public Policy	3
PPL 813 Public Finance	3
PPL 890 Policy Workshop	3
PPL 891 Issues in Public Policy	6
2. Students with no professional experience will be required to complete 3 credits of Public Policy 894 Field Experience Practicum.	
3. 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 39 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 804	Analytical Tools for Public Policy	3
PLS 809	Proseminar in Formal Theory	3
 - b. 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 or political thought.
 - c. 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 thought, public policy, research methodology, or formal theory.
2. Pass a comprehensive examination in both the major and minor field.
3. Successfully defend the dissertation.
4. Present the results of the dissertation research at a department colloquium.

Academic Standards

After the first year of graduate study at Michigan State University, the department evaluates the student's academic record. To be eligible to continue in the Ph.D. program in political science, the student must have:

1. an overall grade–point average of 3.00 or higher.
2. a grade of 2.5 or higher in each Political Science course.
3. no more than two grades of 2.5 or below in Political Science courses.
4. a record of performance in courses that, in the judgment of the faculty, indicates that the student should be capable of completing the Ph.D. degree in Political Science at Michigan State University.

DEPARTMENT of PSYCHOLOGY

Neal Schmitt, Chairperson

As a science, psychology is concerned with theories, principles, facts and methods as they relate to understanding, predicting and influencing human behavior: how they perceive; how they learn and forget; how they think, fear, hate, and love; how they develop their individualities or personalities; and how they 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

- 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, 403, 405, 409, 410, 411, 413, 424, 440, 441, 442, 450, 455, or 475. Those courses are referenced in item 3. e. below.
- The requirements of the College of Social Science for the Bachelor of Arts degree.
- The following required major courses: CREDITS
 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	Memory and Skill (W)	3
PSY 402	Sensation and Perception (W)	3
PSY 403	Laboratory in Cognitive Psychology (W)	3
PSY 405	History of Modern Psychology (W)	3
PSY 409	Psychobiology of the Life Span (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 442	Stereotypes, Prejudice, and Discrimination (W)	3
PSY 450	Thinking Critically About Psychological Research (W)	3
PSY 455	Organizational Research Techniques (W)	3
PSY 475	Personality Theories (W)	3

 f. Electives in Psychology. 9

Requirements for the Bachelor of Science Degree in Psychology

- 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 Statistics and Probability 421 or higher. 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 or 402 or 403 or 405 or 409 or 410 or 413 or 424 or 440 or 441 or 442 or 450 or 455 or 475. Those courses are referenced in item 3. e. below.
- 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 Requirements for the Bachelor of Arts and Bachelor of Science Degrees* in the college statement.)
- The following requirements for the major: CREDITS
 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	Memory and Skill (W)	3
PSY 402	Sensation and Perception (W)	3
PSY 403	Laboratory in Cognitive Psychology (W)	3
PSY 405	History of Modern Psychology (W)	3
PSY 409	Psychobiology of the Life Span (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 442	Stereotypes, Prejudice, and Discrimination (W)	3
PSY 450	Thinking Critically About Psychological Research (W)	3
PSY 455	Organizational Research Techniques (W)	3
PSY 475	Personality Theories (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	3
Genetics		
ZOL 141	Introductory Human Genetics	3
ZOL 341	Fundamental Genetics	4
ZOL 445	Evolution	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 graduate education 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 experiences are arranged in agencies such as industries, clinics, hospitals, schools, and government offices as needed by the individual student.

Our six graduate programs include: Behavioral Neuroscience, Clinical, Cognition and Cognitive Neuroscience, EcologicalCommunity, Organizational, and Social/Personality.

The doctoral program in clinical psychology has been accredited by the American Psychological Association, and includes two concentrations for clinical psychology students: (1) Multiculturalism and Diversity in Clinical Psychology, and (2) Research Methods in Clinical Psychology.

Psychology graduate students may also participate in advanced graduate training through a concentration in Quantitative Methodology and Evaluation Science (QMES).

The Department of Psychology is affiliated with the Doctor of Philosophy degree program with a major in ecology, evolutionary biology and behavior. For information about a Doctor of Philosophy degree program that involves ecology, evolutionary biology and behavior and a major in the Department of Psychology, refer to the statement on the doctoral program in ecology, evolutionary biology and behavior in the *College of Natural Science* section of this catalog.

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 degree programs in the Department of Psychology may elect a Specialization in Ecology, Evolutionary Biology and Behavior. For additional information, refer to the statement on the specialization in the *College of Natural Science* section of this catalog.

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).

SCHOOL of SOCIAL WORK

Gary R. Anderson, Director

Social work is a profession that assists people in achieving life satisfaction 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 profession is particularly concerned with the needs of disadvantaged, vulnerable, and oppressed populations.

The first priority of the Michigan State University School of Social Work in education, research, and service concerns the welfare of disenfranchised and oppressed peoples in the state, nation, and international communities. The school's primary focus is promoting educational leadership in meeting direct practice, clinical practice, 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 is essential.

The primary educational goal of the undergraduate program is to prepare students for beginning generalist social work practice. The primary educational goal of the master's program is to prepare students for advanced social work practice. Two majors are

SOCIAL SCIENCE
School of Social Work

available at the master’s level: the clinical social work major and the organizational and community practice major. The clinical social work major is designed to prepare students to work with individuals, families, and small groups, using strategies of intervention that range from advocacy to psychotherapy. The organizational and community practice major is designed to prepare students to engage in administrative and community development tasks and intervention processes. The Doctor of Philosophy degree in Social Work, which is open to students who already have earned an M.S.W. 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 selected practice, policy, or research settings.

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 program leading to the Bachelor of Arts degree in social work is designed to prepare graduates for entry level positions in social work practice. The undergraduate program is grounded in the liberal arts and social sciences and is structured around courses in social work practice, social welfare policy, human behavior and the social environment, research, and a practicum experience. The rich resources of the university are used to create programs that are designed to prepare students for general social work practice and for graduate study. The program has been accredited by the Council on Social Work Education.

The faculty of the School of Social Work has adopted diversity and its relationship to social justice as the signature theme of the undergraduate program. Information about diverse populations is incorporated into classroom and field work assignments. The school encourages its majors to study abroad in order to learn more about diverse populations.

The demands of the undergraduate program are substantial, and students with an interest in the field of social work are encouraged to seek academic advising and career counseling as early in their college careers as possible. Freshmen and sophomores who declare social work as their major preference receive academic advising in the school and may enroll in Social Work 200.

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, Room 254 Baker Hall.

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:

1. Submitted a completed application form by the deadline specified by the school.
2. Completed Social Work 200, which is a prerequisite for the 300–400 level courses required for the bachelor’s degree.

3. Completed the courses in related areas referenced in items 3. b. (1) and 3. b. (2) under the heading *Requirements for the Bachelor of Arts Degree in Social Work*, with the exception of Computer Science and Engineering 101.

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. Factors such as the diversity of the student body may also be considered in the selection process.

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

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 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. a. below.
2. The requirements of the College of Social Science for the Bachelor of Arts degree.
 The completion of any three of the courses referenced in item 3.b.(1) below satisfies the college requirement of a minimum of three courses totaling at least 9 credits in the following departments: Anthropology, Economics, Geography, Political Science, Psychology, and Sociology.
 The completion of Physiology 101 or 250 or Zoology 341 referenced in item 3.b.(2) below partially satisfies the college requirement of a minimum of two courses in the College of Natural Science.
3. The following required major courses:

			CREDITS
a.	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, and 441. 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	
b.	The following courses in related areas		26 or 27
	(1) All of the following courses (14 credits):		
	CSE 101 Computing Concepts and Competencies	3	
	PLS 100 Introduction to American National Government	3	
	PSY 101 Introductory Psychology	4	
	SOC 100 Introduction to Sociology	4	
	Students who pass a waiver examination will not be required to complete Computer Science and Engineering 101.		
	(2) One of the following courses (3 or 4 credits):		
	PSL 250 Introductory Physiology	4	
	PSY 209 Brain and Behavior	3	
	ZOL 341 Fundamental Genetics	4	
	Integrative Studies in Biological Science 204 may be used to satisfy requirement 3. b. (2).		
	(3) One of the following courses (3 credits):		
	ANP 201 Sociocultural Diversity	3	
	FCE 442 Ethnic Minority Families in America	3	
	SOC 215 Race and Ethnicity	3	
	SOC 216 Sex and Gender	3	
	(4) One of the following courses (3 credits):		

EC	201	Introduction to Microeconomics	3
EC	202	Introduction to Macroeconomics	3
(5)	One of the following courses (3 credits):		
PSY	200	Cognitive Psychology	3
PSY	235	Social Psychology	3
PSY	236	Personality	3
PSY	239	Psychology of Women	3
PSY	244	Developmental Psychology: Infancy Through Childhood	3
PSY	270	Community Psychology	3
PSY	280	Abnormal Psychology	3

GRADUATE STUDY

Students who apply for admission to graduate programs in the School of Social Work should be prepared for a rigorous schedule of course work combined with concurrent practicum experiences in diverse settings. The Master of Social Work degree program requires clear thinking, competence in written and oral expression, and emotional stability.

The School of Social Work offers two programs which have been accredited by the Council on Social Work Education (CSWE): a Master of Social Work (MSW) Advanced Standing (One Year) Program and a MSW Two–Year Program.

The MSW Two–Year Program requires 57 credits for the MSW degree. 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 Two–Year Program at Michigan State University. A maximum of 26 credits of graduate level work in another program accredited by the CSWE may be applied to the credit requirements under the MSW Two–Year Program.

Students who hold a bachelor's degree in social work from a program that is accredited by the CSWE may apply for admission to the MSW 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 Master of Social Work degree programs 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, organizational and community practice in the urban arena, or social work in aging.

Students who are enrolled in Master of Social Work degree programs 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*.

Master of Social Work

The Master of Social Work degree programs include 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 MSW Two–Year Program

Students begin the master's degree programs in the fall because of the sequencing of required courses. Applicants should therefore seek admission during the previous fall. Students wishing to be considered for admission must file a special application form available from the School of Social Work. Although an undergraduate major or concentration in the social sciences or in social work may be helpful, it is not required.

Specific Requirements for Regular Admission:

1. A bachelor's degree from a recognized institution.

2. Normally a grade–point average of at least 3.00 (on a 4–point scale) during undergraduate study or in 14 or more credits of graduate study.
3. Evidence of personal qualities considered important for the practice of social work.
4. Completion of an undergraduate course in statistics or an approved equivalent.
5. Prior academic record including at least 19 semester credits in humanities, social sciences, and natural sciences.
Applicants will be judged on a combination of factors:
 1. Grade–point average in undergraduate study or in 14 or more credits of graduate study.
 2. Judgments by the faculty of the candidate's commitment to social work and suitability for the profession, based on a reading of the application.
 3. Length and type of work and volunteer experience.
 4. Three letters of reference.
 5. Diversity considerations.

Requirements for the MSW Two–Year Program

The student must complete 57 credits in specific social work instruction.

	CREDITS
Required Courses for Both the Clinical Social Work Major and the Organizational and Community Practice Major:	43
1. Required Core Courses (26 credits): All of the required core courses must be completed before enrolling in additional courses required for the major.	
SW 810 Theories of Groups, Organizations, and Communities in Social Work	3
SW 811 Social Work Perspectives in Human Development	3
SW 820 Social Welfare Policy and Services	3
SW 830 Applied Social Work Research: Experimental and Quasi–Experimental Designs	3
SW 840 Generalist Social Work Practice Methods I	3
SW 841 Generalist Social Work Practice Methods II	3
SW 894A Social Work Field Education: Graduate Generalist Practice I	4
SW 894B Social Work Field Education: Graduate Generalist Practice II	4
2. Other Required Courses (17 credits):	
a. Both of the following courses (6 credits):	
SW 832 Applied Social Work Research: Survey and Field Designs	3
SW 845 Administrative Skills for Social Work Practice	3
b. One of the following courses (3 credits):	
SW 808 Issues in Urban Policy and Services	3
SW 822A Social Welfare Policy and Services: Children, Youth and Families	3
SW 822B Social Welfare Policy and Services: Adults	3
SW 822C Social Welfare Policy and Services: Aging	3
c. Eight credits of social work or social work related course electives. Three credits must be from the School of Social Work. Social Work related courses may be used to complete the remaining credits if approved by the student's academic advisor.	
Additional Required Courses for the Clinical Social Work Major:	14
SW 850 Clinical Social Work Practice I	3
SW 851 Clinical Social Work Practice II	3
SW 894D Social Work Field Education: Clinical Practice I	4
SW 894E Social Work Field Education: Clinical Practice II	4
Additional Required Courses for the Organizational and Community Practice Major	14
SW 863 Organizational and Community Social Work Practice I	3
SW 864 Organizational and Community Social Work Practice II	3
SW 894G Social Work Field Education: Organizational and Community Practice I	4
SW 894I Social Work Field Education: Organizational and Community Practice II	4

Admission to the MSW Advanced Standing (One-Year) 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 MSW Advanced Standing (One-Year) Program.

Students are admitted only for summer semester. Applicants should therefore seek admission during the previous fall. Students wishing to be considered for admission must file an application available from the School of Social Work, 254 Baker Hall.

To be considered for admission to the MSW Advanced Standing program, a person must have:

1. a bachelor's degree in social work from a program that is accredited by the CSWE and granted within the last six years.
2. a grade-point average of at least 3.25 (on a 4-point scale) during undergraduate study.

Applicants will be judged 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. Three letters of reference, including an evaluation from the undergraduate faculty or agency practicum instructor or from the most recent social work supervisor.
4. Evidence of personal qualities considered important for the practice of social work.

Persons who are admitted to the MSW Advanced Standing program must have completed an undergraduate course in statistics or an approved equivalent at the time of matriculation.

Requirements for the MSW Advanced Standing (One-Year) Program

The student must complete 38 credits in specific social work instruction.

	CREDITS
Required Courses for Both the Clinical Social Work Major and the Organizational and Community Practice Major:	24
1. Required Core Courses (Summer Semester) (6 credits):	
All of the required core courses must be completed before enrolling in additional courses required for the major.	
SW 812B Integration of Theory, Policy, and Evaluation in Social Work	2
SW 842B Advanced Generalist Social Work Practice Methods	2
SW 893B Social Work Field Education: Advanced Generalist Practice	2
2. Other Required Courses (18 credits):	
a. Both of the following courses (6 credits):	
SW 832 Applied Social Work Research: Survey and Field Designs	3
SW 845 Administrative Skills for Social Work Practice	3
b. One of the following courses (3 credits):	
SW 808 Issues in Urban Policy and Services	3
SW 822A Social Welfare Policy and Services: Children, Youth and Families	3
SW 822B Social Welfare Policy and Services: Adults	3
SW 822C Social Welfare Policy and Services: Aging	3
c. Nine credits of electives of social work related courses. The courses used to satisfy this requirement must be approved by the student's academic advisor.	
Additional Required Courses for the Clinical Social Work Major:	14
SW 850 Clinical Social Work Practice I	3
SW 851 Clinical Social Work Practice II	3
SW 894D Social Work Field Education: Clinical Practice I	4
SW 894E Social Work Field Education: Clinical Practice II	4
Additional Required Courses for the Organizational and Community Practice Major	14
SW 863 Organizational and Community Social Work Practice I	3
SW 864 Organizational and Community Social Work Practice II	3
SW 894G Social Work Field Education: Organizational and Community Practice I	4
SW 894I Social Work Field Education: Organizational and Community Practice II	4

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 re-

quirement must be met in the year that the advanced methods and practicum courses are being completed.

Part-Time Students

Both the MSW Two-Year Program and the MSW Advanced Standing (One-Year) 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

Janet L. Bokemeier, Chairperson

With global transformation, the world is rapidly changing. People, goods, markets, ideas and capital are moving across global boundaries at ever-increasing rates. Global processes are transforming societies, changing our cities, the ways we communicate, our health and longevity, environmental risks; and leading to new risks and opportunities such new forms of work, patterns of family living, health care delivery, and ways to distribute food. Given these extensive global changes, sociology itself is changing and domestic and international issues are often interrelated. Global transformation provides unification for the department's diverse activities including the research and scholarship of its faculty, graduate students, and undergraduates.

UNDERGRADUATE PROGRAM

Sociologists study how societies are organized, how they change, and how they interact. The department's undergraduate program is designed to give students an understanding of societies throughout the world and of the major patterns of social behavior and organization in the United States. Courses deal with the basic institutions of society: economy and industry, education, family, health care and medicine, politics, sciences, and technology. Students examine how change occurs in rural and urban communities, in the environment, and in bureaucracies. They consider how knowledge may be applied to introduce social change.

Courses on international change and 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 available for participation in faculty research projects.

Sociology graduates may pursue positions in business, public service, sales research, teaching, and administration. 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.

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 or the College of Social Science NATURAL SCIENCE REQUIREMENT, but not both.
- The requirements of the College of Social Science for the Bachelor of Science degree.

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.	The College's NATURAL SCIENCE REQUIREMENT for the Sociology major is met by completing 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 Introduction to Technical Computing	3
	CSE 231 Introduction to Programming I	4
	CSE 232 Introduction to Programming II	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 9 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.

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 of society. Students obtain knowledge of the principles of sociology, sociological inquiry, diversity in society, and the ways in which global forces are affecting 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. At least 12 unique credits counted towards the requirements for a student's minor must not be used to fulfill the requirements for that student's major.

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 total 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
SOC 330 Social Stratification	3
3. One of the following courses (3 credits):	
SOC 161 International Development and Change	3
SOC 362 Developing Societies	3
4. Complete two courses in Sociology at the 300-400 level totaling 6 credits. 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

Graduate education in the Department of Sociology is intended to develop professional sociologists who will be creative researchers, scholars, teachers, and practitioners. The graduate program features four major areas of scholarly concentration:

The department offers three major research theme areas of concentration:

1. Food, environment, agriculture, science and technology (FEAST). Areas of study include population, science and technology, community, ecology, environment, risk and food safety, agriculture, grades and standards,
2. Family and gender. Areas of study include sex and gender, youth, families and diversity (race, ethnicity, poverty, international), the links between gender, race, class and national inequalities across the globe, family and gender in the changing workplace.
3. Health and well-being. Areas of study include the social contexts of health, illness, and health care, the subjective experience of health and illness, medical sociology with organizational and social psychological perspectives, health risk, health and inequality, food and health, and demography.
4. Urban, race and migration. Areas of study include new urban sociology, social movements, identities, ethnicity and race, sociology of culture, migration and immigration, transnationalism, diasporas.

Students are provided a wide range of training in theory and research methodology.

The department theme, global transformation, involves a commitment to global and international projects and programs. This sociological work focuses on the challenges of global understanding of social, political and cultural differences as well as understanding how a global context explains social processes, change, and inequality.

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 addi-

tional 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.soc.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

The master's program is designed to give the student a general background in sociological theory and methodology, as well as an introduction to a major substantive area of the discipline. Students who complete the program may conduct standard social research projects, teach introductory sociology courses, direct several kinds of social action programs, or apply for admission to a doctoral degree program in sociology.

Students who are not employed full-time should complete all of the requirements for the master's degree with a major in sociology within two years of initial enrollment in the program.

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. One course in **each** of the following three areas: theory, methods, and statistics.
 - b. At least three courses in **one** of the department's three major research theme areas of concentration referenced above.
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.
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. Although the requirements for the Master of Arts degree with a major in sociology are an integral part of the doctoral program, students who are enrolled in the doctoral program are not required to earn a master's degree.

All doctoral students should gain some teaching experience, if possible.

The student's academic advisor serves as the chairperson of the student's guidance committee.

Specific procedures and criteria for the evaluation of comprehensive examinations are presented in the department's Graduate Manual.

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

The student must meet the requirements specified below:

1. One course in **each** of the following four areas: classical theory, contemporary theory, methods, and statistics.
2. At least one additional course in theory, methods, or statistics.
3. A program of study in **one** of the department's three major research theme areas of concentration referenced above that includes:
 - a. At least five courses, at least three of which must be Michigan State University Sociology courses.
 - b. Additional courses related to the student's needs and interests. With the approval of the student's guidance committee, the additional courses may be in any of the department's three major research theme areas of concentration referenced above.
4. During the second year of study toward the doctoral degree, present an original research paper 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.
5. Participate in the teaching assistant workshop offered by the department.
6. Participate in the Sociology Graduate Seminar for First-Year Students.

Academic Standards

At the end of the second year of study toward the doctoral degree, the faculty evaluates the student's performance in courses, the student's presentation of the original research paper, and the recommendations of the student's guidance committee. On the basis of that evaluation, the faculty decides whether or not the student should continue in the doctoral program.

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. All of the following courses (9 credits):	
ESP 891 Selected Topics in Environmental Science and Policy . . .	4
LAW 565A Animal Law	2
SOC 840 Animals and Social Transformations.	3
2. 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.

Upon completion of the requirements for the degree program and the Graduate Specialization in Animal Studies: Social Science and Humanities Perspective, the student should contact the Dean of the College of Social Science and request certification for the completion of the specialization. After the certification is approved by the Dean, the Office of the Registrar will enter on the student's academic record the name of the specialization and the date that it was completed. This certification will appear on the student's transcript.

PROGRAM in WOMEN, GENDER, and SOCIAL JUSTICE

Lisa Fine, Acting 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. The program offers a cross-disciplinary major in women's studies leading to the Bachelor of Arts degree. In addition, an undergraduate specialization in Women, Gender, and Social Justice is offered. For additional information, refer to the *Women's Studies 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 promotes and coordinates the work of faculty and students interested in study of international development from the perspective of the social sciences and liberal arts. Since 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 to award Foreign Language and International Studies Fellowships under Title VI of the Higher Education Act.

CASID promotes undergraduate and graduate programs in international development, works with academic units to assure continued availability and quality of relevant course offerings, coordinates issue-oriented interest groups, and offers a wide range of scholarly presentations and outreach services. CASID also provides assistance to faculty seeking external funding for cross-disciplinary international development research and project activities.

An undergraduate Specialization in International Development is available to interested students. For additional information, re-

fer to the statement on *Specializations in the Undergraduate Education* 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 in collaboration with the College of Natural Science, the College of Agriculture and Natural Resources and the Michigan Agricultural Research Station. Faculty from across the university participate in research focused on the study of global environmental change using geospatial information technologies and earth observation satellites to measure, analyze and predict the human and physical processes of global environmental change. The center strives to strengthen interdisciplinary approaches for understanding global change at all scales, from the regional to the global, 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, coupled human and natural systems, coupled biological and physical systems, deforestation, biodiversity, 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, but mostly centered in Brazil, Ecuador, Costa Rica, Russia, Africa, Southeast Asia, and China 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.

JULIAN SAMORA RESEARCH INSTITUTE

Rubén Martínez, Director

The Julian Samora Research Institute (JSRI) generates, transmits, and applies knowledge to serve the needs of Latino communities in the Midwest and the United States. To achieve its mission, the JSRI: 1) serves as the hub of an interdisciplinary research program on social, cultural, health and economic issues confronting Latino populations and communities in the Midwest and the United States; 2) advances Latino scholarship by encouraging and supporting Latino-focused faculty and students to conduct research and engage in mentoring, research assistantships,

fellowships, symposia and related activities; and 3) transmits and disseminates knowledge and research findings to various academic, government, community and private institutions and officials.

In addition, JSRI provides technical expertise to the broader community on policy development issues facing Latinos, and promotes the development of Latino cultural and human capital through leadership development, community empowerment, and education. Through the generation, transmission and application of knowledge, JSRI is committed to transforming lives. By engaging Latino-focused researchers, agencies, practitioners, policymakers and Latino communities in collaborative learning, community-based projects, and responsive engagement, JSRI joins the College of Social Science and the larger university community in contributing to the advancement of the larger society – both locally and globally.

MATRIX: THE CENTER for the HUMANE ARTS, LETTERS, and SOCIAL SCIENCES ON-LINE

Mark L. Kornbluh, Director

MATRIX seeks to advance critical understanding and promote access to knowledge through world-class research in humanities and social science technology. Humanities and social science technology brings together the humanist's quest for deeper understanding of human nature, thought, expression, and behavior with the tools, methods and applications of computer science, engineering, and information and library sciences. MATRIX researchers use networked technologies to advance, mediate, and inform the humanist disciplines of history, literature, language, philosophy, as well as disciplines within the arts, social sciences, and education. At Michigan State University, MATRIX partners in music, speech and audiology, history, education, international studies, museum studies, and libraries are building new, global, networked resources and services that give life to the metaphor of "matrix" as the multiple intersections and applications of interdisciplinary research. Located administratively within the College of Social Science, MATRIX collaborates with scholars and students across the university.

MATRIX applies humanities technology to all the elements of Michigan State University'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, scientific methods and principles, MATRIX aims to be one of the top humanities and social science technology centers in the world. To this end, the mission of MATRIX, The Center for Humane, Arts, Letters, and Social Sciences Online is to serve as a catalyst for and incubator of the emerging fields and disciplines resulting from the integration of the humanities and social sciences with information technologies.

MATRIX has identified five broad strategic goals that describe the national research agenda in humanities technology:

1. Broaden preservation and access to cultural heritage resources: advance creation, preservation, access to and interpretation of the human record, through collaborative research and development of major, online cultural heritage resources.

2. Transform teaching and learning: forge effective partnerships in communications, education, and computer science, pioneer research and development of pedagogical applications of new digital technologies for the arts, humanities, and social sciences.
3. Advance professional networking within and across disciplines: research, develop, and implement tools to enhance networking and develop new forms of online publication within the academy and the broader public.
4. Promote public involvement and improve digital equity in outreach: research, develop and apply networked technologies to build domestic and international linkages, ensure digital equity and support civil society.
5. Foster new scholars and scholarship: facilitate the creation of a new generation of scholars to research, build, and utilize new technologies for research and teaching, and to pioneer a new type of interdisciplinary humanities scholarship.

For additional information, visit MATRIX: www.matrix.msu.edu.

CENTER for REMOTE SENSING and GEOGRAPHIC INFORMATION SCIENCE RESEARCH and OUTREACH SERVICES

Jessica Moy, Director

Center for Remote Sensing and Geographic Information Science Research and Outreach Services (RSGIS) is administered by the Department of Geography in the College of Social Science. The unit was established to strengthen and support the utilization of geographic information systems technologies and of remote sensing in research, instruction, and extension programs of academic departments.

RSGIS promotes interdisciplinary research through the collaborative efforts of faculty investigators, research assistants, and students in 14 departments. Major areas of research include land and water use and change-detection studies, planned economic development, forest inventory, agricultural assessment, biological productivity, environmental monitoring, data base development for land resources planning and management, crop stress evaluation, and terrain analysis.

Professional staff are available for consultation and technical assistance to faculty members and students. The center publishes technical reports and newsletters and sponsors seminars and short courses.

INSTITUTE FOR PUBLIC POLICY AND SOCIAL RESEARCH

Douglas B. Roberts, Director

The Institute for Public Policy and Social Research is a university-wide research institute for which the College of Social Science is the lead college. 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 affecting regional and local developments. Faculty associated with the Institute pursue multidisciplinary research projects. Institute personnel have computer programming, data management, statistical, survey analysis, and methodological expertise. The Institute contains the following programs and support units:

SURVEY RESEARCH FACILITY. The Institute specializes in telephone interviews and mailed questionnaires in support both of applied and basic research, and provides consulting in sampling design, statistical analysis, and other technical aspects of survey research.

LEGISLATIVE LEADERSHIP PROGRAM. Sponsored in conjunction with Michigan State University Extension, this program links scholars, legislators, and practitioners in a discussion of public policy issues and the policy making process. LLP kicks off every two years shortly after state elections with a three-day session for newly elected state legislators on current public policy issues. LLP sponsors ongoing informal meetings among faculty and legislators to further discuss policy issues and relevant research..

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. 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.

PUBLIC POLICY FORUMS. The Institute organizes and carries out regular forums on topics of timely interest for legislators and other governmental decision-makers. **TOMORROW'S POLITICAL LEADERS.** TPL is a bold new program seeking to bring together a diverse sampling of upper-division undergraduates and recent graduates of Michigan's colleges and universities. In addition to providing extensive training on campaigning and the political process in Michigan, TPL will also give its young participants a chance to see and interact with Michigan's government "behind the scenes."

INSTITUTE of PUBLIC UTILITIES

Janice A. Beecher, Director

Established at Michigan State University in 1965, the Institute of Public Utilities (IPU) supports informed, effective, and efficient regulation of the infrastructure-intensive network industries that provide essential utility services – electricity, natural gas, water, and telecommunications. We fulfill our mission by providing to the regulatory policy community integrative, interdisciplinary, and balanced educational programs and applied research on the institutions, theory, and practice of modern economic regulation. IPU takes a principled approach to regulation, an empirical approach

to regulatory research, and a reasoned approach to structural and regulatory change. The institute's neutral analytical and instructional practice is informed by a broad spectrum of traditional and applied academic disciplines including the social sciences, law, business, engineering, and communications. IPU highly specialized forums address today's most challenging and controversial issues, including the complex integration of markets and economic regulation. IPU provides essential professional learning and networking opportunities, as well as certificates of participation and continuing education units. IPU's diverse program faculty includes nationally recognized university educators and expert practitioners known for their insight, experience, and teaching ability. IPU operates as an independent nonprofit unit and is self-supporting; contributions to the university help sustain Institute operations and research, and keep educational programs affordable.