Michigan State University functions as a unit, with its colleges, divisions, schools, and departments serving one another. No single part is independent of the others. The Michigan State University College of Law, through a special affiliation, functions fully as a part of the University, although it remains financially independent.

Most schools and departments offer courses at both the undergraduate and graduate levels. At the undergraduate level, freshman and sophomore students, except when enrolled in James Madison College, Lyman Briggs College, or the Residential College in the Arts and Humanities, are enrolled as part of the Neighborhood Student Success Collaborative (NSSC). Such students may select a field of study as a major preference; however, the academic responsibility for such students rests solely with the NSSC. During the first two years students begin taking (1) courses that apply to the university requirements as described in the Undergraduate Education section of this catalog, (2) courses appropriate to the particular major, and/or (3) courses of an exploratory nature. During the junior and senior years, students' primary focus is on courses, whether given by the colleges of the majors or others, which meet the needs of the academic programs. For high-achieving undergraduate students, colleges, schools, departments, and faculty, in cooperation with the Honors College, provide programs to encourage the highest intellectual development and greatest achievement.

At the graduate level, colleges which offer graduate courses have developed graduate programs consistent with the highest national, international, and professional standards of the respective fields.

Study Abroad programs are sponsored by the University through its academic departments and schools, and cooperative arrangements with other universities. The University offers more than 275 programs in over 60 countries on all seven continents.

To provide broader access to its instructional resources, the University offers selected degree programs, certificate programs, and courses at various locations and via the web.

The materials throughout this catalog are intended to be cumulative. The Undergraduate Education section is applicable to undergraduate study, and the Graduate Education section refers to graduate study. The all-University policies and requirements given in the General Information, Policies, Procedures and Regulations section apply to both undergraduate and graduate study. These three sections serve as the foundation for the college statements, and the all-University sections and the college statements serve as the foundation for the department and school statements.

Each college statement addresses the purposes or role of the college in the University; the organizational structure of the college; undergraduate programs, including college policies and requirements for admission and graduation beyond the all-University requirements; and graduate study, including the college policies and requirements for admission and degree completion beyond the all-University requirements. The organization of the department and school statements is similar to that of the college statements.

SESSIONS

The university offers instruction throughout the year during the fall semester, spring semester, and summer sessions.
PERIOD COVERED BY REGISTRATION

The period covered by registration for a given semester or summer session is defined as commencing with the first day of classes as published in the university academic calendar, and extending through the day prior to the start of the first day of classes for the succeeding semester or the first summer session. The delivery of appropriate services requires at least minimum registration for that semester or summer session.

ACCREDITATION

Michigan State University is a member of the Association of Public and Land-grant Universities, Association of American Universities, American Council on Education, American Council of Learned Societies, Association of Graduate Schools, Council of Graduate Schools, Big Ten Academic Alliance, and International Association of Universities. The university has been accredited by the Higher Learning Commission, 230 South LaSalle Street, Suite 7-500, Chicago, Illinois 60604-1411, www.hlcommission.org, 1-312-263-0456. Some individual programs, schools, and colleges have been recognized by the accrediting agencies in their respective fields. For a list, visit https://opb.msu.edu/functions/planning/agen-cies-accredit-msu.html.

Information about the accreditation of individual programs, schools, and colleges is included in program descriptions in Academic Programs. Updated program listings may be found at www.reg.msu.edu/ucc/ucc.asp.

EQUAL OPPORTUNITY AND NON-DISCRIMINATION

Michigan State University is committed to the principles of equal opportunity, nondiscrimination and, in the context of employment, affirmative action. University programs, activities, and facilities are available to all without regard to race, color, gender, gender identity, religion, national origin, political persuasion, sexual orientation, marital status, disability, height, weight, veteran status, age or familial status. The university is an affirmative action, equal opportunity employer. In carrying out this commitment, the university is guided by the applicable federal and state laws and regulations and policies adopted by the Board of Trustees.

The university has a comprehensive employment Affirmative Action Plan that includes placement goals for academic and support staff employment and an affirmative action policy for the employment of veterans and persons with disabilities. The Office for Inclusion and Intercultural Initiatives oversees the Plan by reviewing individual academic and support staff hiring recommendations, and advises the President and other university administrators on equal opportunity, diversity and inclusion matters.

The All-University Anti-Discrimination Policy applies to all university community members and to education and employment programs and activities and prohibits discrimination and harassment based on age, color, gender, gender identity, disability status, height, marital status, national origin, political persuasion, race, religion, sexual orientation, veteran status or weight. The Office of Institutional Equity establishes relations with federal and state civil rights agencies, and provides a system of addressing complaints of prohibited discrimination and harassment by conducting investigations where necessary and ensures prompt remedial action where discrimination or harassment is found.

For additional information, contact the Office for Inclusion and Intercultural Initiatives, Hannah Administration Building, 426 Auditorium Road, Room 444, 1-517-353-3924, inclusion@msu.edu, or visit www.inclusion.msu.edu. For additional information on the University's Anti-Discrimination Policy, contact the Office of Institutional Equity, Suite 4, Olds Hall 408 West Circle Drive, 1-517-353-3922, oie@msu.edu.

STUDENT CONSUMER INFORMATION

Michigan State University seeks to make available to prospective and enrolled students full information on all pertinent matters that would affect their attendance at the university. These matters include academic programs, financial aid programs, eligibility requirements for financial aid, cost of attending the institution, refund policy, program integrity (complaints) and, to the extent available, patterns of retention in offered curricula. Information is accessible at www.reg.msu.edu/ROInfo/HEOAnotices.asp. Information is also available in various university publications, such as this catalog and information brochures for prospective students; or inquiries may be made of appropriate MSU administrative offices and Web sites. Typical sources include:

Office of Admissions
Hannah Administration Building
426 Auditorium Road, Room 250
(For prospective students)
www.admissions.msu.edu

Office of the Controller
Hannah Administration Building
426 Auditorium Road, Room 305
www.cotr.msu.edu

Office of Financial Aid
Student Services Building
556 E. Circle Drive, Room 252
www.finaid.msu.edu

Office of the Registrar
Hannah Administration Building
426 Auditorium Road, Room 150
(For enrolled students)
www.reg.msu.edu

Additional information on university rules and regulations affecting students is published in the resource guide Spartan Life and other publications and is available at www.msu.edu.

GRADUATION RATES AT MICHIGAN STATE UNIVERSITY

Admission to Michigan State University is based upon academic preparation and ability. To assist students in their educational planning, as well as for institutional planning and reporting, first-time degree/certificate-seeking undergraduate students are included in a cohort each fall semester. This cohort is followed to determine the rate of retention and graduation from Michigan State University.

Decisions by students to complete degree programs in more than four years may vary from personal to programmatic reasons. The most recent Graduation Rate Survey, based upon the 2009 entering cohort, indicates that 78% of that cohort graduated within 6 years, or 150% of the normal time to award. Of the same cohort, 74% graduated within 5 years, and 52% within 4 years. These data compare favorably to graduation statistics from similar institutions. Additionally, some students in the initial cohort will eventually graduate at other institutions through transfer or pre-baccalaureate entry into professional programs.

For additional information on university rules and regulations affecting students is published in the resource guide Spartan Life and other publications and is available at www.msu.edu.
COLLEGES, SCHOOLS and DEPARTMENTS

Departments of instruction at Michigan State University are organized as follows:

**College of Agriculture and Natural Resources**
- Agricultural, Food, and Resource Economics
- Animal Science
- Biosystems and Agricultural Engineering
- Community Sustainability
- Entomology
- Fisheries and Wildlife
- Food Science and Human Nutrition
- Forestry
- Horticulture
- Packaging
- Planning, Design and Construction
- Plant Biology
- Plant, Soil and Microbial Sciences

**Residential College in the Arts and Humanities**

**College of Arts and Letters**
- Art, Art History, and Design
- English
- Linguistics and Germanic, Slavic, Asian and African Languages
- Philosophy
- Religious Studies
- Romance and Classical Studies
- Theatre
- Program in Women, Gender, and Social Justice
- Writing, Rhetoric and American Cultures

**The Eli Broad College of Business**

**The Eli Broad Graduate School of Management**
- Accounting and Information Systems
- Finance
- Hospitality Business
- Management
- Marketing
- Supply Chain Management

**College of Communication Arts and Sciences**
- Advertising and Public Relations
- Communication
- Communicative Sciences and Disorders
- Journalism
- Media and Information

**College of Education**
- Counseling, Educational Psychology and Special Education
- Educational Administration
- Kinesiology
- Teacher Education

**College of Engineering**
- Biomedical Engineering
- Biosystems and Agricultural Engineering
- Chemical Engineering and Materials Science
- Civil and Environmental Engineering
- Computational Mathematics, Science, and Engineering
- Computer Science and Engineering
- Electrical and Computer Engineering
- Mechanical Engineering

**College of Human Medicine**
- Anesthesia
- Biochemistry and Molecular Biology
- Emergency Medicine
- Epidemiology and Biostatistics
- Family Medicine
- Medicine
- Microbiology and Molecular Genetics
- Neurology and Ophthalmology

**College of Law**

**Lyman Briggs College**

**College of Music**

**College of Natural Science**
- Biochemistry and Molecular Biology
- Biomedical Laboratory Diagnostics Program
- Chemistry
- Computational Mathematics, Science, and Engineering
- Earth and Environmental Sciences
- Integrative Biology
- Mathematics
- Microbiology and Molecular Genetics
- Physics and Astronomy
- Physiology
- Plant Biology
- Statistics and Probability

**College of Nursing**

**College of Osteopathic Medicine**
- Biochemistry and Molecular Biology
- Family and Community Medicine
- Microbiology and Molecular Genetics
- Neurology and Ophthalmology
- Osteopathic Manipulative Medicine
- Osteopathic Medical Specialties
- Osteopathic Surgical Specialties
- Pediatrics
- Pharmacology and Toxicology
- Physical Medicine and Rehabilitation
- Physiology
- Psychiatry
- Radiology

**College of Social Science**
- Anthropology
- Criminal Justice
- Economics
- Geography, Environment, and Spatial Sciences
- History
- Human Development and Family Studies
- Human Resources and Labor Relations
- Planning, Design and Construction
- Political Science
- Psychology
- Social Work
- Sociology
- Program in Women, Gender, and Social Justice

**College of Veterinary Medicine**
- Large Animal Clinical Sciences
- Microbiology and Molecular Genetics
- Pathobiology and Diagnostic Investigation
- Pharmacology and Toxicology
- Physiology
- Small Animal Clinical Sciences

**Office of the Provost**
- Aerospace Studies—Air Force
- Military Science—Army

Obstetrics, Gynecology and Reproductive Biology
Pediatrics and Human Development
Pharmacology and Toxicology
Physiology
Psychiatry
Radiology
Surgery
Translation Science and Molecular Medicine

**James Madison College**

**College of the Arts and Sciences**
- Anthropology
- Criminal Justice
- Economics
- Geography, Environment, and Spatial Sciences
- History
- Human Development and Family Studies
- Human Resources and Labor Relations
- Planning, Design and Construction
- Political Science
- Psychology
- Social Work
- Sociology
- Program in Women, Gender, and Social Justice

**College of Veterinary Medicine**
- Large Animal Clinical Sciences
- Microbiology and Molecular Genetics
- Pathobiology and Diagnostic Investigation
- Pharmacology and Toxicology
- Physiology
- Small Animal Clinical Sciences

**Office of the Provost**
- Aerospace Studies—Air Force
- Military Science—Army
Michigan State University offers a wide variety of programs and areas of study that contribute to the overall strength of the university. Although some programs and areas of study are not available as majors, the following list indicates the breadth and depth of opportunities available to students. In addition, special programs, suited to individual needs and purposes may be arranged, particularly at the advanced levels.

Accounting
Actuarial Science
Advertising
Advertising Analytics
Advertising Creative
Advertising Management
Aerospace Studies—Air Force
African American and African Studies
African Languages
African Studies
Agribusiness Management
Agricultural, Food and Resource Economics
Agricultural and Natural Resources Biotechnology
Agriculture
Agriculture, Food and Natural Resource Education
Agronomy
American Indian and Indigenous Studies
American Legal System
American Studies
Animal Science
Animal Studies: Social Science and Humanities Perspectives
Animation and Comics Storytelling in Media
Anthropology
Apparel and Textiles
Applied Behavior Analysis
Applied Engineering Sciences
Applied Mathematics
Applied Statistics
Arabic
Art and Art History
Art Education
Art History and Visual Culture
Studio Art
Arts and Cultural Management
Arts and Humanities
Asian Pacific American Studies
Asian Studies
Astrophysics
Astrophysics and Astronomy
Athletic Training
Biochemistry and Molecular Biology
Biochemistry and Molecular Biology/Biotechnology
Biological Science
Biology
Biomedical Engineering
Biomedical Laboratory Operations
Biomedical Laboratory Science
Biostatistics
Biosystems Engineering
Biotechnology
Black American and Diasporic Studies
Business Administration
Business Analytics
Business Concepts for Environmental Sustainability and Conservation
Business Research
Cell and Molecular Biology
Chemical Engineering
Chemical Physics
Chemistry
Chicano/Latino Studies
Chinese
Civil Engineering
Classical and Ancient Mediterranean Studies
Classical Studies
Clinical Laboratory Sciences
Clinical Nurse Specialist
Clinical Social Work
Coaching
Cognitive Science
Comic Art and Graphic Novels
Commercial Floriculture
Communication
Communication Arts and Sciences-Media and Information Studies
Communicative Sciences and Disorders
Community, Agriculture, Recreation and Resource Studies
Comparative Cultures and Politics
Comparative Medicine and Integrative Biology
Computational Chemistry
Computational Mathematics
Computational Mathematics, Science, and Engineering
Computational Modeling
Computational Statistics
Computer Engineering
Computer Science and Engineering
Connected Learning
Conservation Law
Construction Management
Corporate Accounting
Counterfeit Pharmaceuticals
Creative Writing
Criminal Justice
Critical Studies in the Teaching of English
Crop and Soil Sciences
Crop Production
Crop Science
Curriculum, Instruction, and Teacher Education
Dairy Production
Dance
Design
Dietetics
Digital Humanities
Digital Rhetoric and Professional Writing
Documentary Studies
Early Care and Education
Early Childhood-General and Special Education
Earth Science
Ecological Food and Farming Systems
Ecology and Evolutionary Biology and Behavior
Economic Geography
Economics
Economics of Education
Education
Educational Leadership
Educational Policy
Educational Psychology
Educational Studies
Educational Psychology and Educational Technology
Environmental and Health
Environmental and Resource Economics
Environmental Biology
Environmental Biology/Microbiology
Environmental Biology/Plant Biology
Environmental Biology/Zoology
Environmental Design
Environmental Economics
Environmental Economics and Policy
Environmental Engineering
Environmental Geography
Environmental Geosciences
Environmental Policy
Environmental Science and Policy
Environmental Sciences and Management
Environmental Studies
Environmental Studies and Agriscience
Environmental Toxicology
Epidemiology
Ethics and Development
European Studies
Experience Architecture
Family and Child Ecology
Family Community Services
Fiction Film Production
Film Studies
Finance
Fish and Wildlife Disease Ecology and Conservation Medicine
<table>
<thead>
<tr>
<th>Program</th>
<th>Program</th>
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<tbody>
<tr>
<td>Fisheries and Wildlife</td>
<td>Laboratory Research in Pharmacology and Toxicology</td>
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<tr>
<td>Food Industry Management</td>
<td>Landscape Architecture</td>
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<td>Food Processing and Technology</td>
<td>Landscape and Nursery</td>
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<td>Food Safety</td>
<td>Language and Literacy</td>
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<td>Food Science</td>
<td>Large Animal Clinical Sciences</td>
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<tr>
<td>Foodservice Management</td>
<td>Latin American and Caribbean Studies</td>
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<tr>
<td>Foreign Language Teaching</td>
<td>Law Enforcement Intelligence and Analysis</td>
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<tr>
<td>Forensic Science</td>
<td>Law, Justice, and Public Policy</td>
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<tr>
<td>Forest Carbon Science, Policy and Management</td>
<td>Leadership in Medicine for the Unserved</td>
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<tr>
<td>Forestry</td>
<td>Leadership in Rural Medicine</td>
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<td>Forestry Field Applications</td>
<td>Leadership of Organizations</td>
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<td>French</td>
<td>Linguistics</td>
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<td>Game Design and Development</td>
<td>Literacy and Language Instruction</td>
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<tr>
<td>General Business Administration</td>
<td>Livestock Production</td>
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<td>General Management</td>
<td>Management, Strategy and Leadership</td>
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<tr>
<td>Genetics</td>
<td>Manufacturing Engineering</td>
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<tr>
<td>Genomics and Molecular Genetics</td>
<td>Manufacturing Management</td>
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<tr>
<td>Geographic Information Science</td>
<td>Marine Ecosystem Management</td>
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<td>Geography</td>
<td>Marketing</td>
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<td>Geological Sciences</td>
<td>Marketing Research</td>
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<tr>
<td>German</td>
<td>Materials Science and Engineering</td>
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<tr>
<td>Global and International Studies in Social Science</td>
<td>Materials Science and Mechanics</td>
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<tr>
<td>Global Food Law</td>
<td>Mathematics</td>
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<tr>
<td>Global History</td>
<td>Mathematics, Advanced</td>
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<tr>
<td>Global Public Health and Epidemiology</td>
<td>Mathematics Education</td>
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<tr>
<td>Global Studies in the Arts and Humanities</td>
<td>Measurement and Quantitative Methods</td>
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<tr>
<td>Global Urban Studies</td>
<td>Mechanical Engineering</td>
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<tr>
<td>Graphic Design</td>
<td>Media and Communication Technology</td>
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<tr>
<td>Greek</td>
<td>Media and Information</td>
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<td>Grounds Management</td>
<td>Media Arts and Technology</td>
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<tr>
<td>Health and Risk Communication</td>
<td>Medical Neuroscience</td>
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<td>Health Professions Education</td>
<td>Medical Partners in Public Health</td>
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<tr>
<td>Health Promotion</td>
<td>Microbiology</td>
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<tr>
<td>Higher, Adult, and Lifelong Education</td>
<td>Military Science—Army</td>
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<tr>
<td>Hispanic Cultural Studies</td>
<td>Museum Studies</td>
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<tr>
<td>History</td>
<td>Music</td>
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<tr>
<td>History, Philosophy, and Sociology of Science</td>
<td>Collaborative Piano</td>
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<td>Horse Management</td>
<td>Composition</td>
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<tr>
<td>Horticulture</td>
<td>Composition and Music Theory</td>
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<tr>
<td>Hospitality Business</td>
<td>Conducting</td>
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<tr>
<td>Hospitality Business Real Estate and Development</td>
<td>Education</td>
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<tr>
<td>Human Behavior and Social Services</td>
<td>Jazz Studies</td>
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<tr>
<td>Human Biology</td>
<td>Performance</td>
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<tr>
<td>Human Capital and Society</td>
<td>Theory</td>
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<tr>
<td>Human Development and Family Studies</td>
<td>Musicology</td>
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<tr>
<td>Human Geography</td>
<td>Muslim Studies</td>
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<tr>
<td>Human Medicine</td>
<td>Natural Resource Recreation and Tourism</td>
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<tr>
<td>Human Nutrition</td>
<td>Neuroscience</td>
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<td>Human Nutrition-Environmental Toxicology</td>
<td>Neuroscience and the Law</td>
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<td>Human Resource Management</td>
<td>Neuroscience-Environmental Toxicology</td>
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<tr>
<td>Human Resources and Labor Relations</td>
<td>Nonprofit Fundraising</td>
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<tr>
<td>Humanities—Prelaw</td>
<td>Nurse Practitioner</td>
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<tr>
<td>Indian and South Asian Languages and Cultures</td>
<td>Nursing</td>
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<tr>
<td>Industrial Mathematics</td>
<td>Nursing Practice</td>
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<tr>
<td>Industrial Relations and Human Resources</td>
<td>Nutritional Sciences</td>
</tr>
<tr>
<td>Infancy and Early Childhood</td>
<td>Operations and Sourcing Management</td>
</tr>
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<td>Information and Communication Technology and Development</td>
<td>Organizational Behavior—Human Resource Management</td>
</tr>
<tr>
<td>Information and Media</td>
<td>Osteopathic Medicine</td>
</tr>
<tr>
<td>Information Technology Management</td>
<td>Packaging</td>
</tr>
<tr>
<td>Insurance and Risk Management</td>
<td>Pathobiology</td>
</tr>
<tr>
<td>Integrative Biology</td>
<td>Pharmacology and Toxicology</td>
</tr>
<tr>
<td>Integrative Management</td>
<td>Philosophy</td>
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<tr>
<td>Integrative Pharmacology</td>
<td>Philosophy and Law</td>
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<tr>
<td>Intellectual Property and Communications Law</td>
<td>Physical Science</td>
</tr>
<tr>
<td>Interdisciplinary Humanities</td>
<td>Physics</td>
</tr>
<tr>
<td>Interdisciplinary Studies in Social Science</td>
<td>Physiology</td>
</tr>
<tr>
<td>Interdisciplinary Studies in Social Science: Social Science Education</td>
<td>Physiology-Environmental Toxicology</td>
</tr>
<tr>
<td>International Business</td>
<td>Piano Pedagogy</td>
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<tr>
<td>International Public Health</td>
<td>Plant Biology</td>
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<td>Interior Design</td>
<td>Plant Breeding and Genetics</td>
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<tr>
<td>International Development</td>
<td>Plant Pathology</td>
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<tr>
<td>International Planning Studies</td>
<td>Political Economy</td>
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<td>International Relations</td>
<td>Political Science</td>
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<td>Italian</td>
<td>Political Science—Prelaw</td>
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<tr>
<td>Japanese</td>
<td>Portuguese</td>
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<tr>
<td>Jazz Studies</td>
<td>Professional Applications in Anthropology</td>
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<tr>
<td>Jewish Studies</td>
<td>Professional Writing</td>
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<tr>
<td>Journalism</td>
<td>Program Evaluation</td>
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<tr>
<td>Judicial Administration</td>
<td>Psychology</td>
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<td>K—12 Educational Administration</td>
<td>Public Health</td>
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<td>K—12 English as a Second Language</td>
<td>Public Health Administration</td>
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<td>Kinesiology</td>
<td>Public Health Informatics</td>
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<td>Public Policy</td>
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<td>Public Relations</td>
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</tbody>
</table>
THE ACADEMIC PROGRAM
Programs and Areas of Study

Quantitative Biology
Rehabilitation Counseling
Rehabilitation Counselor Education
Religion in the Americas
Religious Studies
Rhetoric and Writing
Russian
Russian and East European Studies
Sales Communication
School Psychology
Science Education
Science, Technology, Environment and Public Policy
Second Language Studies
Security Management
Serious Game Design and Research
Small Animal Clinical Sciences
Social Relations and Policy
Social Science
Social Work
Sociology
Soil Science
South Asian Languages
Spanish
Spatial Ecology
Special Education
  Emotional Impairment
  Learning Disabilities
Sports Business Management
Sports Coaching and Leadership
Statistics
Strategic Communication
Strategic Management
Student Affairs Administration
Supply Chain Management
Sustainable Agriculture and Food Systems
Sustainable Tourism and Protected Area Management
Teaching and Curriculum
Teaching and Learning in Postsecondary Education
Telecommunication, Information Studies and Media
The City: Environment, Design and Society
Theatre
Turfgrass Management
Urban and Community Forestry
Urban and Regional Planning
Urban Education
Veterinary Medicine
Viticulture
Women, Gender and Social Justice
Women's Studies
World Politics
Youth and Society
Youth Development
Youth Development Specialist
Youth Program Management and Evaluation
Zoology
Preprofessional
  Dentistry
  Law
  Medicine
  Optometry
  Osteopathy
  Podiatry
  Theology
  Veterinary Medicine

DEGREES

Michigan State University grants the following degrees upon satisfactory completion of appropriate programs of study in the departments, schools, and colleges.

Bachelor of Arts .................................. B.A.
Bachelor of Fine Arts ............................ B.F.A.
Bachelor of Landscape Architecture ......... B.L.A.
Bachelor of Music ............................... B.Mus.
Bachelor of Science ............................ B.S.
Bachelor of Science in Nursing .............. B.S.N.
Juris Doctor ..................................... J.D.
Master of Arts .................................. M.A.
Master of Business Administration ........... M.B.A.
Master of Fine Arts ............................ M.F.A.
Master of International Planning Studies ... M.I.P.S.
Master of Human Resources and Labor Relations .... M.H.R.L.
Master of Jurisprudence ....................... M.J.
Master of Laws ................................ LL.M.
Master of Music ............................... M.Mus.
Master of Public Policy ....................... M.P.P.
Master of Science in Nursing ................ M.S.N.
Master of Science ............................. M.S.
Master of Social Work ......................... M.S.W.
Master in Urban and Regional Planning ...... M.U.R.P.
Educational Specialist ......................... Ed.S.
Doctor of Education ......................... Ed.D.
Doctor of Medicine ........................... M.D.
Doctor of Musical Arts ........................ D.M.A.
Doctor of Nursing Practice .................. D.N.P.
Doctor of Osteopathic Medicine .............. D.O.
Doctor of Philosophy ........................ Ph.D.
Doctor of Veterinary Medicine .............. D.V.M.

Undergraduate programs and degree requirements are described in a section entitled Undergraduate Education. Graduate programs and degree requirements as well as dual degree programs and joint degree programs are described in a section devoted to Graduate Education. For detailed information about the programs of study and requirements in the colleges and their schools and departments, the section in Academic Programs describing each college should be consulted.

TEACHER CERTIFICATION

For information about teacher certification opportunities, options, and requirements, refer to the statement on TEACHER CERTIFICATION in the Department of Teacher Education section of this catalog.

COURSE DESIGNATIONS

Throughout the programs of study given in this section, courses are identified either by course subject codes, course numbers, and course titles (example: CSE 101 Computing Concepts and Competencies) or by course names and course numbers (example: Computer Science and Engineering 101).

Additional information about specific courses may be found in the frequently updated online version of Course Descriptions at: www.reg.msu.edu/Courses.asp.

To assist in locating information about specific courses in the Course Descriptions, the course subject codes are listed below in alphabetical order. For each subject code, the corresponding name is given.

SUBJECT

<table>
<thead>
<tr>
<th>CODE</th>
<th>NAME</th>
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<tbody>
<tr>
<td>AAAS</td>
<td>African American and African Studies</td>
</tr>
<tr>
<td>ABM</td>
<td>Agribusiness Management</td>
</tr>
<tr>
<td>ACC</td>
<td>Accounting</td>
</tr>
<tr>
<td>ACM</td>
<td>Arts and Cultural Management</td>
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<tr>
<td>AT Institute of Agricultural Technology</td>
<td>ISS Integrative Studies in Social, Behavioral and Economic Sciences</td>
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<tr>
<td>ATD Apparel and Textile Design</td>
<td>ITC Information Technology Management</td>
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<tr>
<td>ATM Agricultural Technology and Systems Management</td>
<td>ITM Information Technology Management</td>
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<td>BLD Biomedical Laboratory Diagnostics</td>
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<tr>
<td>BMB Biochemistry and Molecular Biology</td>
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<td>BMS BioMolecular Science</td>
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<td>BS Biological Science</td>
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<td>BUS Business</td>
<td>LA Landscape Architecture</td>
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<tr>
<td>CAS Communication Arts and Sciences</td>
<td>LAW MSU College of Law</td>
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<tr>
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<td>LB Lyman Briggs</td>
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<tr>
<td>CEM Chemistry</td>
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<tr>
<td>CEP Counseling, Educational Psychology and Special Education</td>
<td>LIN Linguistics</td>
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<tr>
<td>CHE Chemical Engineering</td>
<td>LL Linguistics and Languages</td>
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<td>CHS Chinese</td>
<td>LNT Language, Learning and Teaching</td>
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<td>CJ Criminal Justice</td>
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<td>CLA Classical Studies</td>
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<td>CLS Chicano/Latino Studies</td>
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<td>CMB Corporate MBA Program</td>
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<td>CMP Construction Management Program</td>
<td>MI Media and Information</td>
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<td>CMSE Computational Mathematics, Science, and Engineering</td>
<td>MKT Marketing</td>
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<td>COM Communication</td>
<td>MMG Microbiology and Molecular Genetics</td>
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<td>CSD Communicative Sciences and Disorders</td>
<td>MS Military Science</td>
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<td>CSE Computer Science and Engineering</td>
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<td>CSS Crop and Soil Sciences</td>
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<td>CSUS Community Sustainability</td>
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<td>DAN Dance</td>
<td>MUS Music</td>
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<td>DHI Digital Humanities</td>
<td>MUSM Museum Studies</td>
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<td>EAD Educational Administration</td>
<td>NEU Neuroscience</td>
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<td>EC Economics</td>
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<td>ED Education</td>
<td>NUR Nursing</td>
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<tr>
<td>EEP Environmental Economics and Policy</td>
<td>OGR Obstetrics, Gynecology, and Reproductive Biology</td>
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<tr>
<td>EGR Engineering</td>
<td>OMM Osteopathic Manipulative Medicine</td>
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<tr>
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<td>OSS Osteopathic Surgical Specialties</td>
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<td>EMB Executive MBA</td>
<td>OST Osteopathic Medicine</td>
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<tr>
<td>ENE Environmental Engineering</td>
<td>PDC Planning, Design and Construction</td>
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<tr>
<td>ENG English</td>
<td>PDI Pathobiology and Diagnostic Investigation</td>
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<td>ENT Entomology</td>
<td>PED Pediatrics</td>
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<tr>
<td>EPI Epidemiology</td>
<td>PHD Pediatrics and Human Development</td>
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<td>ES Earth Science</td>
<td>PHL Philosophy</td>
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<td>ESL English as a Second Language</td>
<td>PHM Pharmacology and Toxicology</td>
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<tr>
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<td>PHY Physics</td>
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<tr>
<td>FCM Family and Community Medicine</td>
<td>PIM Integrative Management</td>
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<td>FI Finance</td>
<td>PKG Packaging</td>
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<td>FIM Food Industry Management</td>
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<td>PLS Political Science</td>
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<td>PMR Physical Medicine and Rehabilitation</td>
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<td>FOR Forestry</td>
<td>PPL Public Policy</td>
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<td>FRN French</td>
<td>PRT Portuguese</td>
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<td>FRS Forensic Science</td>
<td>PSC Psychiatry</td>
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<td>FSC Food Science</td>
<td>PSL Physiology</td>
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<td>FW Fisheries and Wildlife</td>
<td>PSY Psychology</td>
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<tr>
<td>GBL General Business and Business Law</td>
<td>QB Quantitative Biology</td>
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<tr>
<td>GER Genetics</td>
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<td>GEO Geography</td>
<td>RCAH Residential College in the Arts and Humanities</td>
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<tr>
<td>GLG Geological Sciences</td>
<td>REL Religious Studies</td>
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<td>RET Retailing</td>
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<td>GRM German</td>
<td>ROM Romance Languages</td>
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<td>GSAH Global Studies in the Arts and Humanities</td>
<td>RUS Russian</td>
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<td>GUSP Global Urban Studies Program</td>
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<td>HDFS Human Development and Family Studies</td>
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<td>HEB Hebrew</td>
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<td>HED Human Environment and Design</td>
<td>SSS Social Science</td>
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<td>HM Human Medicine</td>
<td>STA Studio Art</td>
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<td>HNF Human Nutrition and Foods</td>
<td>STT Statistics and Probability</td>
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<tr>
<td>HRLR Human Resources and Labor Relations</td>
<td>SUR Surgery</td>
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<td>HRT Horticulture</td>
<td>SW Social Work</td>
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<td>HST History</td>
<td>TE Teacher Education</td>
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<tr>
<td>IAH Integrative Studies in Arts and Humanities</td>
<td>THR Theatre</td>
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<tr>
<td>IBIO Integrative Biology</td>
<td>TSM Technology Systems Management</td>
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<td>IDES Interior Design</td>
<td>UGS Undergraduate Studies</td>
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<td>UP Urban Planning</td>
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<td>ISB Integrative Studies in Biological Sciences</td>
<td>VM Veterinary Medicine</td>
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<tr>
<td>ISE Integrated Science Education</td>
<td>WRA Writing, Rhetoric and American Cultures</td>
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<tr>
<td>ISP Integrative Studies in Physical Sciences</td>
<td>WS Women's Studies</td>
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UNIVERSITY ORGANIZATION

Refer to the Michigan State University home page for information about the central administration; the academic organization of the university; the academic governance system including Faculty Senate, University Council standing committees, advisory consultative committees and university student–faculty judiciaries; administrative advisory committees; and Board established committees, www.msu.edu.

The names of the persons who hold administrative positions and who serve on the committees are included at this site: www.msu.edu/about/thisismsu/board-admin/index.html.