

## The ACADEMIC PROGRAM

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, first-year students and sophomores, 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 intellectual development and achievement.

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

Education Abroad programs are sponsored by the University through its academic departments and schools and through 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](http://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://ir.msu.edu/resources/student-achievement>.

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 <https://aacc.msu.edu/ucc>.

## 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 ACADEMIC PROGRAM

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 Institutional Diversity and Inclusion, Hannah Administration Building, 426 Auditorium Road, Room 444, 1-517-353-3924, [inclusion@msu.edu](mailto:inclusion@msu.edu), or visit [www.inclusion.msu.edu](http://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, [oi@msu.edu](mailto:oi@msu.edu).

## PROFESSIONAL LICENSURE AND CERTIFICATION

Federal regulations require MSU to publicly disclose, for each educational program designed to meet the educational requirements for a specific professional license or certification required for employment in an occupation (or advertised as meeting those requirements), information about whether program completion would meet those requirements in a state. These public disclosure requirements apply to all programs, regardless of their modality (i.e., on-ground, online, and hybrid programs). MSU discloses the required information related to the educational requirements for professional licensure and certification in the table at <https://aacc.msu.edu/-/media/assets/aacc/docs/state-authorization/plc-disclosures.pdf?rev=ac2a924aabda45d5a6029051bd05ed00&hash=31BAEC5CB2596C2D199EBEEB98B35F56>.

All current and prospective students are encouraged to contact the applicable professional licensure/certification boards in their respective states for additional information regarding professional licensure/certification requirements, including, without limitation, information regarding any non-educational requirements (such as work experience, background clearance, or examination by outside entities, such as bar examinations).

The information in the table should not be construed as guaranteeing that any particular professional licensure/certification authority will approve a student's application; nor should the information in the table be read to imply that other requirements for professional licensure/certification do not exist or that other requirements for professional licensure/certification have been determined to have been met by MSU's program/course, or that any necessary approvals for clinical or other experiential learning placements are secured by virtue of a student's enrollment at MSU.

State professional licensure/certification requirements are subject to change at any time.

## 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 <https://aacc.msu.edu/compliance/consumer-protectionInformation>. 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](http://www.admissions.msu.edu)

### Office of the Controller

Hannah Administration Building  
426 Auditorium Road, Room 305  
[www.ctrlr.msu.edu](http://www.ctrlr.msu.edu)

### Office of Financial Aid

Student Services Building  
556 E. Circle Drive, Room 252  
[www.finaid.msu.edu](http://www.finaid.msu.edu)

### Office of the Registrar

Hannah Administration Building  
426 Auditorium Road, Room 150  
(For enrolled students)  
[www.reg.msu.edu](http://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](http://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 on the 2017 entering cohort, indicates that 83% of bachelor degree-seeking students graduated within 6 years, or 150% of the normal time to award, 75% graduated within 5 years, and 65% 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.

## The ACADEMIC PROGRAM

### 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**

African American and African Studies  
Art, Art History, and Design  
English  
Linguistics, Languages and Cultures  
Philosophy  
Religious Studies  
Romance and Classical Studies  
Theatre  
Program in Women, Gender, and Social Justice  
Writing, Rhetoric and 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, Genetics and Immunology  
Neurology and Ophthalmology  
Obstetrics, Gynecology and Reproductive Biology  
Orthopedics  
Pediatrics and Human Development  
Pharmacology and Toxicology  
Physiology  
Psychiatry  
Public Health  
Radiology  
Surgery  
Translational Neuroscience  
**James Madison College**  
**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, Genetics and Immunology  
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, Genetics and Immunology  
Neurology and Ophthalmology  
Orthopedics  
Osteopathic Manipulative Medicine  
Osteopathic Medical Specialties  
Osteopathic Surgical Specialties  
PA Medicine  
Pediatrics  
Pharmacology and Toxicology  
Physical Medicine and Rehabilitation  
Physician Assistant's Medicine  
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, Genetics and Immunology

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Pathobiology and Diagnostic Investigation  
Pharmacology and Toxicology  
Physiology  
Small Animal Clinical Sciences  
**Office of the Provost**  
Aerospace Studies—Air Force  
Military Science—Army

### PROGRAMS and AREAS OF STUDY

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.

Accelerator Science and Engineering  
Accounting  
Accounting Analytics  
Accounting and Data Analytics  
Accounting Foundations  
Actuarial Science  
Adult Gerontology-Clinical Nurse Specialist  
Advertising and Public Relations  
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  
Animation and Comics Storytelling in Media  
Anthropology  
Apparel and Textiles  
Applied Behavior Analysis and Autism Spectrum Disorder  
Applied Conservation Biology  
Applied Development in International Agriculture and Natural Resources  
Applied Engineering Sciences  
Applied Mathematics  
Applied Statistics  
Aquatic Ecology and Management  
Arabic  
Art and Art History  
    Art Education  
    Art History and Visual Culture  
    Studio Art  
Art Photography  
Arts and Cultural Management  
Arts and Humanities  
Asian Pacific American Studies

Asian Studies  
Astrophysics  
Astrophysics and Astronomy  
Athletic Training  
Basic Medical Science  
Biochemistry and Molecular Biology  
Biochemistry and Molecular Biology/Biotechnology  
Biological Science-Secondary Education  
Biology  
Biomedical Engineering  
Biomedical Laboratory Operations  
Biomedical Laboratory Science  
Biostatistics  
Biosystems Engineering  
Biotechnology  
Black American and Diasporic Studies  
Broadcast Journalism  
Business  
Business Administration  
Business Data Science and Analytics  
Business Concepts for Environmental Sustainability and Conservation  
Business Research  
Cell and Molecular Biology  
Chemical Engineering  
Chemical Physics  
Chemistry  
Chicano/Latino Studies  
Child Development and Early Childhood Education:  
    Birth to Kindergarten and  
    Special Education  
Children's and Young Adult Literature  
Chinese  
Civil Engineering  
Classical and Ancient Mediterranean Studies  
Classical Studies  
Clinical Medicine  
Clinical Mental Health Counseling  
Clinical Nurse Specialist  
Clinical Social Work  
Coaching  
Cognitive Science  
Collaborative Piano  
Comic Art and Graphic Novels  
Commercial Floriculture  
Communication  
Communication Arts and Sciences-Media and Information Studies  
Communication Leadership and Strategy  
Communicative Sciences and Disorders  
Community, Agriculture, Recreation and Resource Studies  
Comparative Cultures and Politics  
Comparative Medicine and Integrative Biology  
Computational Data Science  
Computational and Applied Mathematics  
Computational Mathematics, Science, and Engineering  
Computational Modeling  
Computational Plant Science  
Computational Statistics  
Computer Engineering  
Computer Science and Engineering  
Connected Learning  
Conservation Law  
Construction Management  
Corporate Accounting  
Counterfeit Pharmaceuticals  
Creative Writing  
Criminal Justice

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Critical Studies in the Teaching of English  
Crop and Soil Sciences  
Crop Production  
Crop Science  
Curriculum, Instruction, and Teacher Education  
Customer Experience Management  
Cybercrime and Digital Investigation  
Cyber Criminology and Cyber Security  
Dairy Production  
Dance  
Data Science  
Dietetics  
Digital Cultural Heritage and History  
Digital Media  
Digital Storytelling  
Digital Studies in the Arts and Humanities  
Documentary Studies  
Early Care and Education  
Early Childhood and Family Policy  
Early Childhood-General and Special Education  
Earth and Environmental Sciences  
Earth Observation and Geospatial Analytics  
Ecology, Evolution and Behavior  
Economic Geography  
Economics  
Economics of Education  
Education Policy and Social Sciences  
Educational Leadership  
Educational Policy  
Educational Psychology  
Education and Society  
Educational Psychology and Educational Technology  
Educational Technology  
Electrical and Computer Engineering  
Elements of Global Supply Chain Management  
Elementary Education  
Elementary STEM Education  
Energy  
Engineering for International Service  
Engineering Mechanics  
English  
Entrepreneurship  
Entomology  
Environment and Health  
Environmental and Integrative Toxicological Sciences  
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 Policy  
Environmental Soil Science  
Environmental Sciences and Management  
Environmental Studies  
Environmental Studies and Agriscience  
Epidemiology  
European Studies  
Experience Architecture  
Family and Child Ecology  
Family Community Services  
Fiction Film Production  
Film Studies  
Finance  
Financial Planning and Wealth Management  
Fish and Wildlife Disease Ecology and Conservation Medicine  
Fish Ecology and Management  
Fisheries and Wildlife  
Food Industry Management  
Food Processing and Technology  
Food Processing, Technology and Safety  
Food Safety  
Food Science  
Foreign Language Teaching  
Forensic Science  
Forest Carbon Science, Policy and Management  
Forest Technology  
Forestry  
Foundations in Chemical Engineering  
French and Francophone Studies  
French Education  
Game Design and Development  
Games and Interactive Media  
General Business Administration  
General Management  
Genetics and Genome Sciences  
Genomics and Molecular Genetics  
Geographic Information Science  
Geography  
Geological Sciences  
German  
Global and International Studies in Social Science  
Global Food Law  
Global Health  
Global History  
Global Plant Breeding  
Global Public Health and Epidemiology  
Global Studies in the Arts and Humanities  
Graphic Design  
Greek  
Health and Risk Communication  
Health Promotion  
Healthcare Compliance  
Healthcare Leadership  
Healthcare Management  
High-Performance Computing  
Higher, Adult, and Lifelong Education  
Hispanic Cultural Studies  
History  
History: Social Studies Education  
Horticulture  
Hospitality Business  
Human Behavior and Social Services  
Human Biology  
Human Development and Family Studies  
Human-Environment and Economic Geography  
Human Medicine  
Human Medicine Research  
Human Nutrition  
Human Nutrition-Environmental Toxicology  
Human Resource Management  
Human Resources and Labor Relations  
Human Services Administration  
Humanities—Prelaw  
Indian and South Asian Studies  
Indigenous Studies  
Industrial Mathematics  
Industrial Relations and Human Resources

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Infancy and Early Childhood  
Information and Communication Technology and Development  
Information and Media  
Information Science  
Information Technology  
Information Technology Management  
Insurance and Risk Management  
Instrumentation in High Energy Physics  
Integrated Science-Secondary Education  
Integrative Biology  
Integrative Management  
Integrative Pharmacology  
Intellectual Property and Communications Law  
Interdisciplinary Humanities  
Interdisciplinary Studies in Social Science  
International Business  
International Public Health  
Interior Design  
International Development  
International Planning Studies  
International Relations  
Italian  
Japanese  
Jazz Studies  
Jewish Studies  
Journalism  
K—12 Educational Administration  
K—12 English as a Second Language  
K12 Computer Science Education  
Kinesiology  
Laboratory Research in Pharmacology and Toxicology  
Landscape Architecture  
Landscape and Nursery  
Language and Literacy  
Large Animal Clinical Sciences  
Latin American and Caribbean Studies  
Law Enforcement Intelligence and Analysis  
Law, Justice, and Public Policy  
Leadership for Equity Minded Change in Postsecondary Education  
Leadership in Medicine for the Underserved  
Leadership in Rural Medicine  
Leadership of Organizations  
Learning Design  
Learning Design Leadership  
Learning Experience Design  
Learning Sciences  
Legal Studies  
Linguistics  
Literacy and Language Instruction  
Livestock Production  
Management, Strategy and Leadership  
Management Studies  
Managerial Analysis for Decision Making  
Manufacturing Engineering  
Manufacturing Management  
Marine Ecosystem Management  
Marketing  
Marketing Research and Analytics  
Materials Science and Engineering  
Materials Science and Mechanics  
Mathematics  
Mathematics, Advanced  
Mathematics Education  
Mathematics-Secondary Education  
Measurement and Quantitative Methods  
Mechanical Engineering  
Media Analytics  
Media and Communication Technology  
Media Arts and Technology  
Media Photography  
Medical Laboratory Science  
Medical Neuroscience  
Medical Partners in Public Health  
Microbiology  
Migration Studies  
Military Science—Army  
Molecular, Cellular, and Integrative Physiology  
Molecular Plant Sciences  
Museum Studies  
Music  
    Collaborative Piano  
    Composition  
    Composition and Music Theory  
    Conducting  
    Education  
    Jazz Studies  
    Performance  
    Theory  
Music Career Development  
Music Cognition  
Musicology  
Muslim Studies  
Natural Resource Recreation and Tourism  
Neuroscience  
Neuroscience and the Law  
Neuroscience-Environmental Toxicology  
Nonprofit Fundraising  
Nonprofit Leadership, Global Cultures, and Social Enterprise  
Nonprofit Leadership, Religion, and Social Change  
Nurse Practitioner  
Nurse Practitioner-Adult Gerontological Primary Care  
Nurse Practitioner-Family  
Nurse Practitioner-Psychiatric Mental Health  
Nursing  
Nursing Practice  
Nutrition and Dietetics  
Nutritional Sciences  
Operations and Sourcing Management  
Organizational Behavior—Human Resource Management  
Organizational Communication for Leadership  
Osteopathic Medicine  
PA Medicine  
Packaging  
Pathobiology  
Pharmacology and Toxicology  
Philosophy  
Philosophy and Law  
Physical Environment and Climate  
Physical Science—Secondary Education  
Physics  
Physiology  
Physiology-Environmental Toxicology  
Piano Pedagogy  
Plant Biology  
Plant Breeding and Genetics  
Plant Pathology  
Political Economy  
Political Science  
Political Science—Prelaw  
Political Theory and Constitutional Democracy  
Popular Culture Studies  
Portuguese

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Professional and Public Writing  
Program Evaluation  
Psychology  
Public Health  
Public Health Administration  
Public Health Informatics  
Public Policy  
Public Relations  
Quantitative Biology  
Quantitative Risk Analytics  
Race and Ethnicity in the United States  
Real Estate  
Real Estate Construction and Development  
Rehabilitation Counseling  
Rehabilitation Counselor Education  
Religious Studies  
Resource Management from the Individual, Family, and Societal Perspective  
Rhetoric and Writing  
Russian  
Russian and East European Studies  
Sales Communication  
School Psychology  
Science Education  
Science, Technology, Environment and Public Policy  
Screenwriting  
Second Language Studies  
Secure and Connected Cyber-Physical Systems  
Security Management  
Semiconductor Manufacturing, Processing, and Devices  
Serious Game Design and Research  
Small Animal Clinical Sciences  
Smart Agricultural Systems  
Social Relations and Policy  
Social Science  
Social Science Quantitative Data Analytics  
Social Work  
Sociology  
Soil Science  
South Asian Languages  
Spanish  
Spanish Education  
Spatial Ecology  
Special Education  
    Emotional Impairment  
    Learning Disabilities  
Special Education Leadership: Multi-Tiered Systems of Support  
Sport Coaching  
Sport Coaching, Leadership and Administration  
Sport Leadership and Administration  
Sports Analytics  
Sports Business Management  
Sports Journalism  
Statistics  
STEM  
Strategic Communication  
Strategic Management  
Student Affairs Administration  
Supply Chain Management  
Sustainable Agriculture and Food Systems  
Sustainable Bioproducts Science and Technology  
Sustainable Tourism and Protected Area Management  
Taxation  
Teacher Leadership  
Teaching and Curriculum

Teaching and Learning in Postsecondary Education  
Teaching in Nursing  
Teaching English to Speakers of Other Languages and Applied Linguistics  
Technology Engineering  
Telecommunication, Information Studies and Media  
The City: Environment, Design and Society  
Theatre  
Transaction Services  
Translation  
Turfgrass Management  
Urban and Community Forestry  
Urban and Regional Planning  
Urban Education  
Urban Forest Management  
Urban Resilient Redevelopment  
User Experience  
Veterinary Medicine  
Veterinary Nursing  
Viticulture  
Wildlife Ecology and Management  
Women, Gender and Social Justice  
Women's Studies  
Work and Organizational Psychology  
World Politics  
Writing  
Youth and Society  
Youth Development  
Youth Development Specialist  
Youth Agency Management and Administration  
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 Arts for Teachers	M.A.T.
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 Legal Studies	M.L.S.
Master of Music	M.Mus.
Master of Public Policy	M.P.P.
Master of Science in Nursing	M.S.N.

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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/Search.aspx](http://www.reg.msu.edu/Courses/Search.aspx).

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

CODE	NAME
AAAS	African American and African Studies
AAE	Advanced Academic English
ABM	Agribusiness Management
ACC	Accounting
ACM	Arts and Cultural Management
ADV	Advertising
AE	Agricultural Engineering
AESC	Applied Engineering Sciences
AFR	African Languages
AFRE	Agricultural, Food, and Resource Economics
AIIS	American Indian and Indigenous Studies
AL	Arts and Letters
AMS	American Studies
ANP	Anthropology
ANR	Agriculture and Natural Resources
ANS	Animal Science
ANTR	Human Anatomy

ARB	Arabic
AS	Aerospace Studies
ASN	Asian Languages
AST	Astronomy and Astrophysics
AT	Institute of Agricultural Technology
ATD	Apparel and Textile Design
ATM	Agricultural Technology and Systems Management
BE	Biosystems Engineering
BLD	Biomedical Laboratory Diagnostics
BMB	Biochemistry and Molecular Biology
BME	Biomedical Engineering
BMS	BioMolecular Science
BS	Biological Science
BUS	Business
CAS	Communication Arts and Sciences
CE	Civil Engineering
CEM	Chemistry
CEP	Counseling, Educational Psychology and Special Education
CHE	Chemical Engineering
CHS	Chinese
CJ	Criminal Justice
CLA	Classical Studies
CLS	Chicano/Latino Studies
CMB	Cell and Molecular Biology
CMBA	Corporate MBA Program
CMP	Construction Management Program
CMSE	Computational Mathematics, Science, and Engineering
COM	Communication
CSD	Communicative Sciences and Disorders
CSE	Computer Science and Engineering
CSS	Crop and Soil Sciences
CSUS	Community Sustainability
DAN	Dance
DH	Digital Humanities
DS	Digital Storytelling
EAD	Educational Administration
EC	Economics
ECE	Electrical and Computer Engineering
ED	Education
EEM	Environmental Economics and Management
EGR	Engineering
EM	Emergency Medicine
EMB	Executive MBA
ENE	Environmental Engineering
ENG	English
ENT	Entomology
EPI	Epidemiology
ES	Earth Science
ESHP	Entrepreneurship
ESL	English as a Second Language
ESP	Environmental Science and Policy
FCM	Family and Community Medicine
FI	Finance
FIM	Food Industry Management
FLM	Film Studies
FLT	Foreign Language Teaching
FM	Family Medicine
FOR	Forestry
FRN	French
FRS	Forensic Science
FSC	Food Science
FW	Fisheries and Wildlife
GBL	General Business and Business Law
GD	Graphic Design



## The ACADEMIC PROGRAM

GEN	Genetics	OMM	Osteopathic Manipulative Medicine
GEO	Geography	OSS	Osteopathic Surgical Specialties
GLG	Geological Sciences	OST	Osteopathic Medicine
GNL	Global Non-profit Leadership	PA	PA Medicine
GRK	Greek	PDC	Planning, Design and Construction
GRM	German	PDI	Pathobiology and Diagnostic Investigation
GSAH	Global Studies in the Arts and Humanities	PED	Pediatrics
GUSP	Global Urban Studies Program	PH	Public Health
HA	History of Art	PHD	Pediatrics and Human Development
HB	Hospitality Business	PHL	Philosophy
HBIO	Human Biology	PHM	Pharmacology and Toxicology
HCM	Healthcare Management	PHY	Physics
HDFS	Human Development and Family Studies	PIM	Integrative Management
HEB	Hebrew	PKG	Packaging
HED	Human Environment and Design	PLB	Plant Biology
HM	Human Medicine	PLP	Plant Pathology
HNF	Human Nutrition and Foods	PLS	Political Science
HRLR	Human Resources and Labor Relations	PMR	Physical Medicine and Rehabilitation
HRT	Horticulture	PPL	Public Policy
HST	History	PR	Public Relations
IAH	Integrative Studies in Arts and Humanities	PRT	Portuguese
IBIO	Integrative Biology	PSC	Psychiatry
IBUS	International Business	PSL	Physiology
IDES	Interior Design	PSY	Psychology
IM	Internal Medicine	QB	Quantitative Biology
ISA	Indian and South Asian Languages	RAD	Radiology
ISB	Integrative Studies in Biological Sciences	RCAH	Residential College in the Arts and Humanities
ISE	Integrated Science Education	REL	Religious Studies
ISP	Integrative Studies in Physical Sciences	RET	Retailing
ISS	Integrative Studies in Social, Behavioral and Economic Sciences	ROM	Romance Languages
ITL	Italian	RUS	Russian
ITM	Information Technology Management	SCM	Supply Chain Management
JPN	Japanese	SCS	Small Animal Clinical Sciences
JRN	Journalism	SME	Science and Mathematics Education
JS	Jewish Studies	SOC	Sociology
KIN	Kinesiology	SPN	Spanish
KOR	Korean	SSC	Social Science
LA	Landscape Architecture	STA	Studio Art
LAW	MSU College of Law	STT	Statistics and Probability
LB	Lyman Briggs	SUR	Surgery
LCS	Large Animal Clinical Sciences	SW	Social Work
LIN	Linguistics	TE	Teacher Education
LL	Linguistics and Languages	THR	Theatre
LLT	Language, Learning and Teaching	TSM	Technology Systems Management
LTN	Latin	UGS	Undergraduate Studies
LWG	Law Graduate Students	UP	Urban Planning
MBA	Master of Business Administration	VM	Veterinary Medicine
MC	James Madison College	WRA	Writing, Rhetoric and American Cultures
ME	Mechanical Engineering	WS	Women's Studies
MED	Medicine	XA	Experience Architecture
MGT	Management		
MI	Media and Information		
MKT	Marketing		
MMG	Microbiology and Molecular Genetics		
MS	Military Science		
MSE	Materials Science and Engineering		
MTH	Mathematics		
MTHE	Mathematics Education		
MUS	Music		
MUSM	Museum Studies		
NEU	Neuroscience		
NOP	Neurology and Ophthalmology		
NSC	Natural Science		
NUR	Nursing		
OGR	Obstetrics, Gynecology, and Reproductive Biology		

## 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](http://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](http://www.msu.edu/about/thisismsu/board-admin/index.html).