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, 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 www.reg.msu.edu/ucc/ucc.aspx.

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, 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.

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://reg.msu.edu/Read/PDF/Professional Licensure and Certification - Public Disclosures - Final.pdf.

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 www.reg.msu.edu/ROInfo/HEOAnotices.aspx. 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.ctrr.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 on the 2016 entering cohort, indicates that 82% of bachelor degree-seeking students graduated within 6 years, or 150% of the normal time to award, 80% graduated within 5 years, and 63% 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.
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**

**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
- Obstetrics, Gynecology and Reproductive Biology
- Orthopedics
- Pediatrics and Human Development
- Pharmacology and Toxicology
- Physiology
- Psychiatry
- 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 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
- 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 and Molecular Genetics
- Pathobiology and Diagnostic Investigation
- Pharmacology and Toxicology
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 for Management Decision Making
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
Animal Studies: Social Science and Humanities Perspectives
Animation and Comics Storytelling in Media
 Anthropology
Apparel and Textiles
Applied Behavior Analysis and Autism Spectrum Disorder
Applied Development in International Agriculture and Natural Resources
Applied Engineering Sciences
Applied Mathematics
Applied Statistics
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: Birth to Kindergarten and Special Education
Children's and Young Adult Literature
Chinese
Civil Engineering
Classical and Ancient Mediterranean Studies
Classical Studies
Climate Science
Clinical Medicine
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 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
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 Humanities
Digital Media
Digital Storytelling
Documentary Studies
Early Care and Education
Early Childhood and Family Policy
Early Childhood-General and Special Education
Earth and Environmental Sciences
Ecology, Evolution and Behavior
Economic Geography
Economics
Economics of Education
Education Policy and Social Sciences
Educational Leadership
Educational Policy
Educational Psychology
Educational Studies
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 Sciences and Management
Environmental Studies
Environmental Studies and Agrisience
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
Fisheries and Wildlife
Food Industry Management
Food Processing and Technology
Food Processing, Technology and Safety
Food Safety
Food Science
Foodservice Management
Foreign Language Teaching
Forensic Science
Forest Carbon Science, Policy and Management
Forest Technology
Forestry
French and Francophone Studies
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 Public Health and Epidemiology
Global Studies in the Arts and Humanities
Global Urban Studies
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, Philosophy, and Sociology of Science
Horse Management
Horticulture
Hospitality Business
Human Behavior and Social Services
Human Biology
Human Capital and Society
Human Development and Family Studies
Human 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
Infancy and Early Childhood
Information and Communication Technology and Development
Information and Media
Information Science
Information Technology
The ACADEMIC PROGRAM

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
Interdisciplinary Studies in Social Science: Social Science Education
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
Manufacturing Engineering
Manufacturing Management
Marine Ecosystem Management
Marketing
Marketing Research
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
Nurse Practitioner
Nurse Practitioner-Adult Gerontological Primary Care
Nurse Practitioner-Family
Nurse Practitioner-Psychiatric Mental Health
Nursing
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 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
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  
Second Language Studies  
Secure and Connected Cyber-Physical Systems  
Security Management  
Serious Game Design and Research  
Small Animal Clinical Sciences  
Social Relations and Policy  
Social Science  
Social Science Quantitative Data Analytics  
Social Work  
Sociology  
Soil Science  
South Asian Languages  
Spanish  
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  
Telecommunication, Information Studies and Media  
The City: Environment, Design and Society  
Theatre  
Transaction Services  
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  
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.

<table>
<thead>
<tr>
<th>Degree Type</th>
<th>Degree Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bachelor of Arts</td>
<td>B.A.</td>
</tr>
<tr>
<td>Bachelor of Fine Arts</td>
<td>B.F.A.</td>
</tr>
<tr>
<td>Bachelor of Landscape Architecture</td>
<td>B.L.A.</td>
</tr>
<tr>
<td>Bachelor of Music</td>
<td>B.Mus.</td>
</tr>
<tr>
<td>Bachelor of Science</td>
<td>B.S.</td>
</tr>
<tr>
<td>Bachelor of Science in Nursing</td>
<td>B.S.N.</td>
</tr>
<tr>
<td>Juris Doctor</td>
<td>J.D.</td>
</tr>
<tr>
<td>Master of Arts</td>
<td>M.A.</td>
</tr>
<tr>
<td>Master of Arts for Teachers</td>
<td>M.A.T.</td>
</tr>
<tr>
<td>Master of Business Administration</td>
<td>M.B.A.</td>
</tr>
<tr>
<td>Master of Fine Arts</td>
<td>M.F.A.</td>
</tr>
<tr>
<td>Master of International Planning Studies</td>
<td>M.I.P.S.</td>
</tr>
<tr>
<td>Master of Human Resources and Labor Relations</td>
<td>M.H.R.L.</td>
</tr>
<tr>
<td>Master of Jurisprudence</td>
<td>M.J.</td>
</tr>
<tr>
<td>Master of Laws</td>
<td>LL.M.</td>
</tr>
<tr>
<td>Master of Legal Studies</td>
<td>M.L.S.</td>
</tr>
<tr>
<td>Master of Music</td>
<td>M.Mus.</td>
</tr>
<tr>
<td>Master of Public Policy</td>
<td>M.P.P.</td>
</tr>
<tr>
<td>Master of Science in Nursing</td>
<td>M.S.N.</td>
</tr>
<tr>
<td>Master of Science</td>
<td>M.S.</td>
</tr>
<tr>
<td>Master of Social Work</td>
<td>M.S.W.</td>
</tr>
<tr>
<td>Master in Urban and Regional Planning</td>
<td>M.U.R.P.</td>
</tr>
<tr>
<td>Educational Specialist</td>
<td>Ed.S.</td>
</tr>
<tr>
<td>Doctor of Education</td>
<td>Ed.D.</td>
</tr>
<tr>
<td>Doctor of Medicine</td>
<td>M.D.</td>
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<tr>
<td>Doctor of Musical Arts</td>
<td>D.M.A.</td>
</tr>
<tr>
<td>Doctor of Nursing Practice</td>
<td>D.N.P.</td>
</tr>
<tr>
<td>Doctor of Osteopathic Medicine</td>
<td>D.O.</td>
</tr>
<tr>
<td>Doctor of Philosophy</td>
<td>Ph.D.</td>
</tr>
<tr>
<td>Doctor of Veterinary Medicine</td>
<td>D.V.M.</td>
</tr>
</tbody>
</table>

Undergraduate programs and degree requirements are described in a section entitled *Undergraduate Education*. Graduate programs and degree requirements as well as dual
The ACADEMIC PROGRAM

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.

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.

<table>
<thead>
<tr>
<th>SUBJECT</th>
<th>CODE</th>
<th>NAME</th>
</tr>
</thead>
<tbody>
<tr>
<td>AAAS</td>
<td>AAAS</td>
<td>African American and African Studies</td>
</tr>
<tr>
<td>AAE</td>
<td>AAE</td>
<td>Advanced Academic English</td>
</tr>
<tr>
<td>ABM</td>
<td>ABM</td>
<td>Agribusiness Management</td>
</tr>
<tr>
<td>ACC</td>
<td>ACC</td>
<td>Accounting</td>
</tr>
<tr>
<td>ACM</td>
<td>ACM</td>
<td>Arts and Cultural Management</td>
</tr>
<tr>
<td>ADV</td>
<td>ADV</td>
<td>Advertising</td>
</tr>
<tr>
<td>AE</td>
<td>AE</td>
<td>Agricultural Engineering</td>
</tr>
<tr>
<td>AESC</td>
<td>AESC</td>
<td>Applied Engineering Sciences</td>
</tr>
<tr>
<td>AFR</td>
<td>AFR</td>
<td>African Languages</td>
</tr>
<tr>
<td>AFRE</td>
<td>AFRE</td>
<td>Agricultural, Food, and Resource Economics</td>
</tr>
<tr>
<td>AIIS</td>
<td>AIIS</td>
<td>American Indian and Indigenous Studies</td>
</tr>
<tr>
<td>AL</td>
<td>AL</td>
<td>Arts and Letters</td>
</tr>
<tr>
<td>AMS</td>
<td>AMS</td>
<td>American Studies</td>
</tr>
<tr>
<td>ANP</td>
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The ACADEMIC PROGRAM

HED  Human Environment and Design
HM  Human Medicine
HNF  Human Nutrition and Foods
HRLR  Human Resources and Labor Relations
HRT  Horticulture
HST  History
IAH  Integrative Studies in Arts and Humanities
IBIO  Integrative Biology
IBUS  International Business
IDES  Interior Design
IM  Internal Medicine
ISA  Indian and South Asian Languages
ISB  Integrative Studies in Biological Sciences
ISE  Integrated Science Education
ISP  Integrative Studies in Physical Sciences
ISS  Integrative Studies in Social, Behavioral and Economic Sciences
ITL  Italian
ITM  Information Technology Management
JPN  Japanese
JS  Jewish Studies
KIN  Kinesiology
KOR  Korean
LA  Landscape Architecture
LAW  MSU College of Law
LB  Lyman Briggs
LCS  Large Animal Clinical Sciences
LIN  Linguistics
LL  Linguistics and Languages
LLT  Language, Learning and Teaching
LTN  Latin
LWG  Law Graduate Students
MBA  Master of Business Administration
MC  James Madison College
ME  Mechanical Engineering
MED  Medicine
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
OMM  Osteopathic Manipulative Medicine
OSS  Osteopathic Surgical Specialties
OST  Osteopathic Medicine
PA  PA Medicine
PDC  Planning, Design and Construction
PDI  Pathobiology and Diagnostic Investigation
PED  Pediatrics
PHD  Pediatrics and Human Development
PHEL  Philosophy
PHM  Pharmacology and Toxicology
PHY  Physics
PIM  Integrative Management
PKG  Packaging
PLB  Plant Biology
PLP  Plant Pathology
PLS  Political Science
PMR  Physical Medicine and Rehabilitation
PPL  Public Policy
PR  Public Relations
PRT  Portuguese
PSC  Psychiatry
PSL  Physiology
PSY  Psychology
QB  Quantitative Biology
RAD  Radiology
RCAH  Residential College in the Arts and Humanities
REL  Religious Studies
RET  Retailing
ROM  Romance Languages
RUS  Russian
SCM  Supply Chain Management
SCS  Small Animal Clinical Sciences
SME  Science and Mathematics Education
SOC  Sociology
SPAN  Spanish
SSC  Social Science
STA  Studio Art
STT  Statistics and Probability
SUR  Surgery
SW  Social Work
TE  Teacher Education
THR  Theatre
TSM  Technology Systems Management
UGS  Undergraduate Studies
UP  Urban Planning
VM  Veterinary Medicine
WRA  Writing, Rhetoric and American Cultures
WS  Women's Studies
XA  Experience Architecture

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.