The ACADEMIC PROGRAM

Michigan State University functions as a unit, its colleges, divisions, schools, and departments serving one another. No single part is independent of the others.

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 and Lyman Briggs School, are enrolled in the Undergraduate University Division. Such students may select a field of study as a major preference; however, the academic responsibility for such students rests solely with the Undergraduate University Division. During the first two years students usually take (1) courses that will fulfill the University requirements as described in the Undergraduate Education section of this catalog and (2) courses appropriate to the particular major, or (3) courses of an exploratory nature. During the junior and senior years, students take 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 and professional standards of the respective fields.

Study abroad opportunities are sponsored by the University through its academic departments and schools, and cooperative arrangements with other universities. These opportunities include more than 150 programs in over fifty countries in Africa, Australia, the Americas, Asia, and Europe.

SESSIONS

The University offers instruction throughout the academic year and during the summer.

The academic year consists of two semesters of approximately fifteen weeks each. The fall semester begins in late August and ends before the winter holidays. The spring semester begins in January and ends with commencement early in May.

Two sessions are scheduled during the summer. The first session begins in mid-May and runs through early July. The second session begins about the first week of July and runs to late August. Sessions of varying lengths for defined audiences are also scheduled during the summer.

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 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 National Association of State Universities and Land Grant Colleges, Association of American Universities, American Council on Education, American Council of Learned Societies, Associa-

tion of Graduate Schools, Council of Graduate Schools, Committee on Institutional Cooperation, and International Association of Universities. The University has been accred ited by the Commission on Institutions of Higher Education of the North Central Association of Colleges and Schools. Some individual programs, schools, and colleges have been recognized by the various accrediting agencies in their respective fields.

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 <<http://www.msu.edu/unit/provost>>.

EQUAL OPPORTUNITY, NONDISCRIMINATION, AND AFFIRMATIVE ACTION

Michigan State University is committed to the principles of equal opportunity, nondiscrimination, and affirmative action. University programs, activities, and facilities are available to all without regard to race, color, gender, religion, national origin, political persuasion, sexual orientation, marital status, disability, height, weight, veteran status, or age. 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 Affirmative Action Plan that includes goals and timetables for academic and support staff employment, an affirmative action policy for the employment of disabled veterans and veterans of the Vietnam era, and an affirmative action policy for persons with disabilities. The Office of Affirmative Action, Compliance and Monitoring oversees the Plan by reviewing individual academic and support staff hiring recommendations, establishing relations with federal and state civil rights agencies, and advising the President and other University administrators.

The All–University Anti–Discrimination Policy applies to all University community members and to education and employment programs and activities without regard to age, color, gender, disability, height, marital status, national origin, political persuasion, race, religion, sexual orientation, veteran status, or weight. The Anti-Discrimination Judicial Board is an established internal judicial system for addressing complaints of discrimination or harassment.

Information about the University's affirmative action program can be obtained from the Office of Affirmative Action, Compliance and Monitoring, 303 Administration Building, 353-3922.

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 and, to the extent available, patterns of retention in offered curricula.

Such information may be found in various University publications, such as this catalog and information brochures for prospective students; or inquiries may be made of appropriate MSU administrative offices. Typical sources include:

Office of Financial Aid 252 Student Services Building

Office of the Registrar 150 Administration Building (For enrolled students)

Office of Admissions and Scholarships 250 Administration Building

(For prospective students)

Information on University rules and regulations affecting students also 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, each fall first-time freshmen are part of a cohort which is followed to determine the rate of retention at and graduation from Michigan State University.

The decision by a student to take more than four years to complete a program varies from personal to programmatic reasons. The most recent Graduation Rate Survey, based on the 1993 entering cohort, indicates that 64 percent of the entering freshman classes graduate from MSU within six years. Over 90 percent of all anticipated degree recipients have graduated by the end of the fifth year. About 32 percent of an entering cohort, or slightly less than half of those who eventually graduate, do so in four years. These figures compare favorably to data from similar institutions.

In addition, some students in the cohort will eventually graduate at other institutions through transfer or prebaccalaureate entry into professional programs.

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.

Accounting	Ancient Studies
Advertising	Animal Science
Aerospace Studies—Air Force	Anthropology
African American History and	Apparel and Textiles
Culture	Apparel and Textile Design
African Languages	Applied Developmental Science
African Studies	Applied Statistics
Agribusiness	Applied Statistics
Agribusiness	Art
Management	Art Education
Agricultural and Extension Education	History of Art
Agricultural Technology and Systems	Studio Art
Management	Astrophysics
Agricultural Resources	Astrophysics and Astronomy
Biotechnology	Audiology and Speech Sciences
Agriculture	Biochemistry
Agriculture and Natural Resources	Biochemistry/Biotechnology
Communications	Biological Science
American Studies	Biology
Anatomy	Biomedical Engineering

THE ACADEMIC PROGRAM Organization

School Psychology

Biosystems Engineering Biotechnology Botany and Plant Pathology Building Construction Management Business Administration Business Information Systems

Cell and Molecular Biology Canadian Studies Chemical Engineering Chemical Physics Chemistry Chicano/Latino Studies Child Development Chinese Civil Engineering Clinical Laboratory Sciences Clinical Social Work Coaching Cognitive Science Commercial Floriculture Communication Community Services Comparative Literature Computational Chemistry Computational Mathematics Computational Statistics Computer Engineering Computer Engineering Computer Science and Engineering Connected Learning Corporate Accounting Counseling Counseling Psychology Counselor Education Criminal Justice Crop and Soil Sciences Crop Production Crop Science Curriculum and Teaching Curriculum, Teaching, and Educational Policy Dairy Production Dance Dietetics Earth Science East Asian Languages and Cultures Ecology and Evolutionary Biology and Behavior Economics Education Educational Psychology Educational Technology and Instruction Design Electrical Engineering Engineering Arts Engineering for International Service Engineering Mechanics English Critical Study in Teaching of English Teaching English to Speakers of Other Languages Entrepreneurship Entomology Environ mental Biology Environmental Biology/Botany and Plant Pathology Environmental Biology/Microbiology Environmental Biology/Zoology Environ mental Economics Environ mental Engineering Environmental Geosciences Environmental Sciences and Management Environmental Soil Science Environmental Studies Environmental Studies and Applications Environ mental Tox icology Epidemiology Family and Consumer Resources Family Community Services Family and Child Ecology Family Studies Film Studies Finance Fisheries and Wildlife Food Industry Management Food Processing and Technology Food Science Foodservice Management Forensic Science

Forestry

French

General Business Administration General Business Administration-Prelaw General Management General Science Genetics Geography Geological Sciences Geophysics German Greek Health and Humanities Health Communication Health Promotion Higher, Adult, and Lifelong Education History Home Economics Home Economics Education and Outreach Horse Management Horticulture Hospitality Business Human Biology Human Environment: Design and ${\rm Management}$ Human Medicine Human Nutrition Human Nutrition-Environmental Toxicology Human Resource Management Humanities—Prelaw Industrial Mathematics Infant Studies Instrumental Music Education Integrated Pest Management Integrative Management Interdisciplinary Humanities Interdisciplinary Studies in Social Science Interior Design Interior Design and Facilities Management International Development International Relations Italian Japanese Jewish Studies JournalismK-12 Educational Administration Kinesiology Labor Relations and Human Resources Landscape Architecture Landscape and Nurser Large Animal Clinical Sciences Latin Latin American and Caribbean Studies Linguistics Literacy Instruction Livestock Production Logistics Management Policy and Strategy Manufacturing Engineering Manufacturing Management Marketing Marriage and Family Therapy Materials Science and Engineering Materials Science and Mechanics Mathematics Mathematics Education Measurement and Quantitative Methods Mechanical Engineering Medical Technology Merchandising Management Microbiology Military Science—Army Museum Studies MusicComposition Composition and Music Theory Conducting Education Performance Theory

Theory Therapy Musicology Neuroscience Nonprofit Sector Policy and Administration

Nursing Nutritional Sciences Operations and Sourcing Management Operations Research—Statistics Organizational and Community Practice Organizational Behavior-Personnel Osteopathic Medicine Packaging Park, Recreation and Tourism Resources Pathology Pharmacology and Toxicology Philosophy Physical Science Physics Physiology Piano Pedagogy Plant Breeding and Genetics Policy and Applied Economics Political Economy Political Science Political Science —Prelaw Political Theory and Constitutional Democracy Portuguese Postcolonial and Diaspora Literature Professional Accounting Psychology Public Administration Public Administration and Public Policy Public Relations Public Resource Management Rehabilitation Counseling Rehabilitation Counselor Education Religious Studies Resource Development Resource Economics

ORGANIZATION

Russian Russian and East European

Studies

Departments of instruction at Michigan State University are organized into 14 colleges. The colleges, schools, and departments of instruction are:

College of Agriculture and Natural Resources Agricultural and Natural Resources Education and Communication Systems Agricultural Economics Agricultural Engineering Animal Science Botany and Plant Pathology Crop and Soil Sciences Entomology Fisheries and Wildlife Food Science and Human Nutrition Forestry Horticulture Packaging Park, Recreation and Tourism Resources Resource Development College of Arts and Letters American Thought and Language Art English History Linguistics and Germanic, Slavic, Asian and African Languages Music Philosophy Religious Studies Romance and Classical Languages Theatre Women's Studies Program The Eli Broad College of Business The Eli Broad Graduate School of Management Accounting Economics Finance Hospitality Business Management

Security Management Small Animal Clinical Sciences Social Relations Social Science Social Work Sociology Soil Science South Asian Languages Spanish Spatial Information Processing Special Education Deaf Education Emotional Impairment Learning Disabilities Visual Impairment Statistics Stringed Instrument Music Education Student Affairs Administration Supply Chain Management Surgery Telecommunication Theatre Turfgrass Management Urban and Regional Planning Urban Studies Veterinary Medicine Veterinary Technology Vocal-General Music Education Western European Studies Women's Studies Zoology Preprofessional . Den tistry

Law Medicine Optometry Osteopathy Podiatry Theology Veterinary Medicine

Marketing and Supply Chain Management

College of Communication Arts and Sciences Advertising Audiology and Speech Sciences Communication Journalism Telecommunication

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

College of Engineering Agricultural Engineering Chemical Engineering Civil and Environ mental Engineering Computer Science and Engineering Electrical and Computer Engineering Materials Science and Mechanics Mechanical Engineering

College of Human Ecology Family and Child Ecology Food Science and Human Nutrition Human Environment and Design

College of Human Medicine Biochemistry and Molecular Biology Epidemiology Family Practice Medicine Microbiology and Molecular Genetics Neurology and Opthalmology Obstetrics, Gynecology and Reproductive Biology Pediatrics and Human Development Pharmacology and Toxicology

THE ACADEMIC PROGRAM Organization

Physiology Psychiatry Radiology Surgery	Pediatrics Pharmacology and Toxicology Physical Medicine and Rehabilitation Physiology Psychiatry	Mas ⁻ Mas ⁻ Mas ⁻
James Madison College	Radiology	Mas
College of Natural Science Biochemistry and Molecular Biology Botany and Plant Pathology Chemistry Entomology Geological Sciences Lyman Briggs School Mathematics Microbiology and Molecular Genetics Physics and Astronomy Physiology Statistics and Probability Zoology College of Nursing College of Nursing Biochemistry and Molecular Biology Family and Community Medicine Internal Medicine Microbiology and Molecular Genetics Neurology and Molecular Genetics Neurology and Molecular Genetics Neurology and Opthalmology Osteopathic Maripulative Medicine Osteopathic Surgical Specialties	College of Social Science An thropology Criminal Justice Geography Labor and Industrial Relations Political Science Psychology Social Work Sociology Women's Studies Program College of Veterinary Medicine Large Animal Clinical Sciences Microbiology and Molecular Genetics Pathology Pharmacology and Toxicology Physiology Small Animal Clinical Sciences Office of the Provost Aerospace Studies—Air Force Military Science—Army	Mas Mas Mas Mas Mas Mas Educ Doct Doct Doct Doct Doct
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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.
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 Labor Relations	
and Human Resources	M.L.R.H.R
Master of Music	M.Mus.
Master of Science in Nursing	M.S.N.
Master of Public Administration	M.P.A.
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 Medicine	M.D.
Doctor of Musical Arts	D.M.A.
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, 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.