



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, 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 programs are sponsored by the University through its academic departments and schools, and cooperative arrangements with other universities. The University offers more than 200 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 programs only, 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 the degrees 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 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

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Sessions

January and ends early May. Sessions of varying lengths for defined audiences are also scheduled during the fall and spring semesters.

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 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 National Association of State Universities and Land-Grant Colleges, Association of American Universities, American Council on Education, American Council of Learned Societies, Association of Graduate Schools, Council of Graduate Schools, Committee on Institutional Cooperation, and International Association of Universities. The University has been accredited by the Higher Learning Commission of the North Central Association of Colleges and Schools, 30 North LaSalle Street, Chicago, Illinois 60602-2504, www.ncahigherlearningcommission.org, (312) 263-0456. Some individual programs, schools, and colleges have been recognized by the accrediting agencies in their respective fields. For a list, see www.opbweb.msu.edu.

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

EQUAL OPPORTUNITY AND NON-DISCRIMINATION

Michigan State University is committed to the principles of equal opportunity, nondiscrimination and, in the context of employment, affirmative action. University programs, activities, and facilities are available to all without regard to race, color, gender, 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, 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.

For additional information, contact the Office for Inclusion and Intercultural Initiatives, 444 Administration Building, 353-3924, inclusion@msu.edu, or at www.inclusion.msu.edu.

STUDENT CONSUMER INFORMATION

Michigan State University seeks to make available to prospective and enrolled students full information on all pertinent matters that would affect their attendance at the University. These matters include academic programs, financial aid programs, eligibility requirements for financial aid, cost of attending the institution, refund policy 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
www.finaid.msu.edu

Office of the Registrar

150 Administration Building
(For enrolled students)
www.reg.msu.edu

Office of Admissions

250 Administration Building
(For prospective students)
www.admissions.msu.edu

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

Decisions by students to complete degree programs in more than four years may vary from personal to programmatic reasons. The most recent Graduation Rate Survey, based upon the 1999 entering cohort, indicates that 74% of that cohort graduated within 6 years, or 150% of the normal time to award. Of the same cohort, 70% graduated within 5 years, and 40% 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 Economics
Animal Science
Biosystems and Agricultural Engineering
Community, Agriculture, Recreation and Resource Studies
Crop and Soil Sciences
Entomology
Fisheries and Wildlife
Food Science and Human Nutrition
Forestry
Horticulture
Packaging
Planning, Design and Construction
Plant Biology
Plant Pathology

Residential College in the Arts and Humanities

College of Arts and Letters

Art and Art History
English
French, Classics, and Italian
Linguistics and Germanic, Slavic, Asian and African Languages
Philosophy
Religious Studies
Spanish and Portuguese
Theatre
Program in Women, Gender, and Social Justice
Writing, Rhetoric and American Cultures

The Eli Broad College of Business

The Eli Broad Graduate School of Management

Accounting and Information Systems
Finance
Hospitality Business
Management
Marketing and Supply Chain Management

College of Communication Arts and Sciences

Advertising, Public Relations and Retailing
Communication
Communicative Sciences and Disorders
Journalism
Telecommunication, Information Studies and Media

College of Education

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

College of Engineering

Biosystems and Agricultural Engineering
Chemical Engineering and Materials Science
Civil and Environmental Engineering
Computer Science and Engineering
Electrical and Computer Engineering
Mechanical Engineering

College of Human Medicine

Biochemistry and Molecular Biology
Epidemiology
Family Medicine
Medicine
Microbiology and Molecular Genetics
Neurology and Ophthalmology
Obstetrics, Gynecology and Reproductive Biology
Pediatrics and Human Development
Pharmacology and Toxicology
Physiology
Psychiatry
Radiology
Surgery

James Madison College

College of Law

College of Music

College of Natural Science

Biochemistry and Molecular Biology
Biomedical Laboratory Diagnostics Program
Chemistry
Entomology
Food Science and Human Nutrition
Geological Sciences
Lyman Briggs School
Mathematics
Microbiology and Molecular Genetics
Physics and Astronomy
Physiology
Plant Biology
Plant Pathology
Statistics and Probability
Zoology

College of Nursing

College of Osteopathic Medicine

Biochemistry and Molecular Biology
Family and Community Medicine
Internal Medicine
Microbiology and Molecular Genetics
Neurology and Ophthalmology
Osteopathic Manipulative Medicine
Osteopathic Surgical Specialties
Pediatrics
Pharmacology and Toxicology
Physical Medicine and Rehabilitation
Physiology
Psychiatry
Radiology

College of Social Science

Anthropology
Criminal Justice
Economics
Family and Child Ecology
Geography
History
Labor and Industrial Relations
Political Science
Psychology
Social Work
Sociology
Program in Women, Gender, and Social Justice

College of Veterinary Medicine

Large Animal Clinical Sciences
Microbiology and Molecular Genetics
Pathobiology and Diagnostic Investigation
Pharmacology and Toxicology
Physiology
Small Animal Clinical Sciences

Office of the Provost

Aerospace Studies—Air Force
Military Science—Army

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
Actuarial Science
Advertising
Aerospace Studies—Air Force
African American and African Studies
African American History and Culture
African Languages
African Studies
Agribusiness
Agribusiness Management
Agriscience
Agricultural Economics
Agricultural and Natural Resources Biotechnology
Agriculture
Agriculture and Natural Resources Communications
Agronomy
American Studies
Animal Science
Anthropology
Apparel and Textiles
Apparel and Textile Design
Applied Developmental Science
Applied Engineering Sciences
Applied Mathematics
Applied Spanish Linguistics
Applied Statistics
Aquaculture
Art and Art History
 Art Education
 Art History and Visual Culture
 Studio Art
Asian Pacific American Studies
Asian Studies
Astrophysics
Astrophysics and Astronomy
Athletic Training

Biochemistry and Molecular Biology
Biochemistry and Molecular Biology/Biotechnology
Bioethics, Humanities, and Society
Biological Science
Biology
Biomedical Engineering
Biomedical Laboratory Operations
Biosystems Engineering
Biotechnology
Black American and Diasporic Studies
Business Administration

Cell and Molecular Biology
Canadian Studies
Chemical Engineering
Chemical Physics
Chemistry
Chicano/Latino Studies
Child Development
Chinese
Civil Engineering
Classical Studies
Clinical Laboratory Sciences
Clinical Social Work
Coaching
Cognitive Science
Commercial Floriculture

Communication
Communication Arts and Sciences—Media and Information Studies
Communicative Sciences and Disorders
Community, Agriculture, Recreation and Resource Studies
Community Services
Comparative Cultures and Politics
Comparative Medicine and Integrative Biology
Computational Chemistry
Computational Mathematics
Computational Statistics
Computer Engineering
Computer Science and Engineering
Connected Learning
Construction Management
Corporate Accounting
Counseling
Creative Writing
Criminal Justice
Critical Studies in the Teaching of English
Crop and Soil Sciences
Crop Production
Crop Science
Curriculum and Teaching
Curriculum, Teaching, and Educational Policy

Dairy Production
Dance
Diagnostic Molecular Science
Dietetics
Digital Rhetoric and Professional Writing

Earth Science
East Asian Languages and Cultures
Ecology and Evolutionary Biology and Behavior
Economics
Education
Educational Policy
Educational Psychology and Educational Technology
Educational Technology
Electrical Engineering
Engineering for International Service
Engineering Mechanics
English
Entrepreneurship
Entomology
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 Geosciences
Environmental Science and Policy
Environmental Sciences and Management
Environmental Soil Science
Environmental Studies
Environmental Studies and Applications
Environmental Toxicology
Epidemiology
Ethics and Development

Family Community Services
Family and Child Ecology
Family Studies
Film Studies
Finance
Fish and Wildlife Disease Ecology and Conservation Medicine
Fisheries and Wildlife
Food and Agricultural Standards
Food Industry Management
Food Processing and Technology
Food Safety
Food Science
Foodservice Management
Forensic Science
Forestry
French

Game Design and Development
Gender and Global Change

General Business Administration
 General Business Administration—Prelaw
 General Management
 General Science
 Genetics
 Genomics and Molecular Genetics
 Geographic Information Science
 Geography
 Geological Sciences
 Geophysics
 German
 Global and Area Studies
 Global Public Health and Epidemiology
 Global Urban Studies
 Greek

 Health Communication
 Health Promotion
 Higher, Adult, and Lifelong Education
 Hispanic Cultural Studies
 History
 Horse Management
 Horticulture
 Hospitality Business
 Hospitality Business Real Estate and Development
 Human Biology
 Human Medicine
 Human Nutrition
 Human Nutrition-Environmental Toxicology
 Human Resource Management
 Human Resources and Labor Relations
 Humanities—Prelaw

 Industrial Mathematics
 Industrial Microbiology
 Industrial Relations and Human Resources
 Infancy and Early Childhood
 Information Technology
 Information Technology Management
 Integrated Pest Management
 Integrative Management
 Integrative Pharmacology
 Interdisciplinary Humanities
 Interdisciplinary Studies in Social Science
 International Business
 Interior Design
 Interior Design and Facilities Management
 International Development
 International Planning Studies
 International Relations
 Italian

 Japanese
 Jazz Studies
 Jewish Studies
 Journalism
 Judicial Administration

 K—12 Educational Administration
 Kinesiology

 Landscape Architecture
 Landscape and Nursery
 Large Animal Clinical Sciences
 Latin
 Latin American and Caribbean Studies
 Linguistics
 Literacy Instruction
 Livestock Production

 Manufacturing Engineering
 Manufacturing Management
 Marine Ecosystem 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
 Microbiology and Molecular Genetics
 Military Science—Army

 Museum Studies
 Music
 Composition
 Composition and Music Theory
 Conducting
 Education
 Performance
 Theory
 Therapy
 Musicology
 Muslim Studies

 Natural Resource Recreation
 Neuroscience
 Nursing
 Nutritional Sciences

 Operations and Engineering Management
 Operations and Sourcing Management
 Organizational Behavior—Human Resource Management
 Osteopathic Medicine

 Packaging
 Park, Recreation and Tourism Resources
 Pathology
 Pharmacology and Toxicology
 Philosophy
 Physical Science
 Physics
 Physics and Geophysics
 Physiology
 Piano Pedagogy
 Plant Biology
 Plant Breeding and Genetics
 Plant Pathology
 Political Economy
 Political Science
 Political Science —Prelaw
 Political Theory and Constitutional Democracy
 Portuguese
 Postcolonial and Diaspora Literature
 Professional Applications in Anthropology
 Professional Writing
 Psychology
 Public Administration and Public Policy
 Public Policy
 Public Relations

 Quantitative Biology

 Rehabilitation Counseling
 Rehabilitation Counselor Education
 Religious Studies
 Residential College in the Arts and Humanities
 Retailing
 Rhetoric and Writing
 Russian
 Russian and East European Studies

 School Psychology
 Science, Technology, Environment and Public Policy
 Second Language Studies
 Security Management
 Small Animal Clinical Sciences
 Social Relations and Policy
 Social Science
 Social Work
 Sociology
 Soil Science
 South Asian Languages
 Spanish
 Spatial Information Processing
 Special Education
 Deaf Education
 Emotional Impairment
 Learning Disabilities
 Statistics
 Strategic Management
 Student Affairs Administration
 Supply Chain Management

 Technology Systems Management
 Telecommunication, Information Studies and Media

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Programs and Areas of Study**

- Theatre
- Turfgrass Management
- Urban and Regional Planning
- Veterinary Medicine
- Veterinary Technology
- Western European Studies
- Women, Gender and Social Justice
- Women's Studies
- Youth Development
- Zoo and Aquarium Management
- 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 Music	M.Mus.
Master of Public Policy	M.P.P.
Master of Science in Nursing	M.S.N.
Master of Science	M.S.
Master of Social Work	M.S.W.
Master in Urban and Regional Planning	M.U.R.P.
Educational Specialist	Ed.S.
Doctor of 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 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.asp.

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

SUBJECT CODE	NAME
ABM	Agribusiness Management
ACC	Accounting
ACR	Community, Agriculture, Recreation and Resource Studies
ADV	Advertising
AE	Agricultural Engineering
AEC	Agricultural Economics
AEE	Agriculture and Natural Resources Education and Communication Systems
AFR	African Languages
AL	Arts and Letters
AMS	American Studies
ANP	Anthropology
ANR	Agriculture and Natural Resources
ANS	Animal Science
ANTR	Human Anatomy
ANTV	Veterinary Anatomy
ARB	Arabic
AS	Aerospace Studies
ASN	Asian Languages
AST	Astronomy and Astrophysics
AT	Institute of Agricultural Technology
ATM	Agricultural Technology and Systems Management
BE	Biosystems Engineering
BLD	Biomedical Laboratory Diagnostics
BMB	Biochemistry and Molecular Biology
BME	Biomedical Engineering
BS	Biological Science
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
CMB	Cell and Molecular Biology
CMP	Construction Management Program
COM	Communication
CSD	Communicative Sciences and Disorders
CSE	Computer Science and Engineering
CSS	Crop and Soil Sciences

DAN	Dance	NOP	Neurology and Ophthalmology
EAD	Educational Administration	NSC	Natural Science
EC	Economics	NUR	Nursing
ECE	Electrical and Computer Engineering	OGR	Obstetrics, Gynecology, and Reproductive Biology
ED	Education	OMM	Osteopathic Manipulative Medicine
EEP	Environmental Economics and Policy	OSS	Osteopathic Surgical Specialties
EGR	Engineering	OST	Osteopathic Medicine
EMB	Executive MBA	PDC	Planning, Design and Construction
ENE	Environmental Engineering	PED	Pediatrics
ENG	English	PHD	Pediatrics and Human Development
ENT	Entomology	PHL	Philosophy
EPI	Epidemiology	PHM	Pharmacology and Toxicology
ES	Earth Science	PHY	Physics
ESL	English as a Second Language	PIM	Integrative Management
ESP	Environmental Science and Policy	PKG	Packaging
FCE	Family and Child Ecology	PLB	Plant Biology
FCM	Family and Community Medicine	PLP	Plant Pathology
FI	Finance	PLS	Political Science
FIM	Food Industry Management	PMR	Physical Medicine and Rehabilitation
FMP	Family Practice	PPL	Public Policy
FOR	Forestry	PRR	Park, Recreation and Tourism Resources
FRN	French	PRT	Portuguese
FRS	Forensic Science	PSC	Psychiatry
FSC	Food Science	PSL	Physiology
FW	Fisheries and Wildlife	PSY	Psychology
GBL	General Business and Business Law	PTH	Pathology
GEN	Genetics	QB	Quantitative Biology
GEO	Geography	RAD	Radiology
GLG	Geological Sciences	RCAH	Residential College in the Arts and Humanities
GRK	Greek	RD	Resource Development
GRM	German	REL	Religious Studies
HA	History of Art	RET	Retailing
HB	Hospitality Business	ROM	Romance Languages
HEB	Hebrew	RUS	Russian
HED	Human Environment and Design	SCS	Small Animal Clinical Sciences
HM	Human Medicine	SME	Science and Mathematics Education
HNF	Human Nutrition and Foods	SOC	Sociology
HRT	Horticulture	SPN	Spanish
HST	History	SSC	Social Science
IAH	Integrative Studies in Arts and Humanities	STA	Studio Art
IDES	Interior Design	STT	Statistics and Probability
IM	Internal Medicine	SUR	Surgery
ISB	Integrative Studies in Biological Sciences	SW	Social Work
ISP	Integrative Studies in Physical Sciences	TC	Telecommunication
ISS	Integrative Studies in Social, Behavioral and Economic Sciences	TE	Teacher Education
ITL	Italian	THR	Theatre
ITM	Information Technology Management	TSM	Technology Systems Management
JPN	Japanese	UGS	Undergraduate Studies
JRN	Journalism	UP	Urban Planning
KIN	Kinesiology	VM	Veterinary Medicine
LA	Landscape Architecture	WRA	Writing, Rhetoric and American Cultures
LBS	Lyman Briggs School	WS	Women's Studies
LCS	Large Animal Clinical Sciences	ZOL	Zoology
LIN	Linguistics		
LIR	Labor and Industrial Relations		
LL	Linguistics and Languages		
LLT	Language, Learning and Teaching		
LTN	Latin		
MBA	Master of Business Administration		
MC	James Madison College		
ME	Mechanical Engineering		
MED	Medicine		
MGT	Management		
MMG	Microbiology and Molecular Genetics		
MS	Military Science		
MSC	Marketing and Supply Chain Management		
MSE	Materials Science and Engineering		
MT	Medical Technology		
MTH	Mathematics		
MUS	Music		
NEU	Neuroscience		

UNIVERSITY ORGANIZATION

Refer to the Michigan State University *Faculty and Staff Directory* for information about the central administration; the academic organization of the University; the academic governance system including Academic Council, Academic Council standing committees, advisory consultative committees and University student-faculty judiciaries; administrative advisory committees; and Board established committees. The names of the persons who hold administrative positions and who serve on the committees are included. For additional information visit: www.msu.edu.