



Access & Excellence

**MONTANA STATE UNIVERSITY-BILLINGS
 BACHELOR OF SCIENCE IN MATHEMATICS
 TEACHING CERTIFICATE OPTION
 SINGLE SUBJECT ENDORSEMENT
 GENERAL BULLETIN 2003-2005**

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Name _____

Student ID # _____

GENERAL EDUCATION REQUIREMENTS – SEE PAGE 4 FOR SPECIFIC COURSES

General Education Category	Course #	Credits	Grade	Semester	Equivalent
Category I: Writing (6 cr.)	ENGL 150				
Category II: Oral Skills (3 cr.)					
Category III: Mathematics (3 cr.)					
Category IV: Natural Sciences (7 cr.) (1 life science/1 physical science/1 lab)					
Category V: Social Sciences (6 cr.) (2 courses from separate prefixes)					
Category VI: History (3 cr.)					
Category VII: Cultural Diversity (3 cr.)					
Category VIII: Fine Arts (3 cr.)					
Category IX: Integrated Humanities (3 cr.)					

Students should consult with their advisors to determine if specific courses are necessary in order to satisfy the General Education requirements within this program.

Certain courses in this program have prerequisites; students should check the course descriptions for required prerequisites.

CATEGORY I: WRITING			6
ENGL 150	College Composition		3
ENGL 210	Technical Writing		3
ENGL 226	Technical Writing		3
ENGL 301	Business Communication		3

CATEGORY II: ORAL SKILLS			3
COMT 101	Fundamentals of Communication		3
COMT 110	Interpersonal Communication		3
COMT 130	Introduction to Public Speaking		3

CATEGORY III: MATHEMATICS			3
MATH 106	College Algebra		3
MATH 107	Precalculus		5
MATH 112	Calculus I		4
MATH 121	Finite Mathematics		4
MATH 141	Contemporary Mathematics		3
STAT 141	Introduction to Statistics		3
STAT 241	Statistical Methods		4

CATEGORY IV: NATURAL SCIENCE			7
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Students are required to take one course from each subcategory and at least one lab or SCIN 101, 102 & 103

Subcategory A – Life Sciences

BIOL 101	Survey of Biology		3
BIOL 115	Survey of Biology Lab		1
BIOL 178	Principles of Biology		3
BIOL 188	Principles of Biology Lab		1

Subcategory B – Physical Sciences

CHEM 104	Fund of General & Organic Chemistry		3
CHEM 105	Fund of General & Organic Chem Lab		1
CHEM 115	General Chemistry I		3
CHEM 118	General Chemistry I Lab		1
EASC 100	Lithosphere and Hydrosphere		3
EASC 101	Lithosphere and Hydrosphere Lab		1
EASC 120	Historical Geology & Paleontology		3
EASC 121	Hist Geology & Paleontology Lab		1
GEOG 100	Physical Geography Lab		1
GEOG 101	Physical Geography		3
PHYS 101	Earth, Air, Fire and Water		3
PHYS 102	Earth, Air, Fire and Water Lab		1
PHYS 110	College Physics I		3
PHYS 111	College Physics I Lab		1
PHYS 201	Introduction to Astronomy		3
PHYS 203	Introduction to Astronomy Lab		1
SCIN 101, 102, 103	Integrated Science I, II, III		3, 1, 3

CATEGORY V: SOCIAL SCIENCE			6
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EDF 100 Educ Persons for a Democratic Society 3

and one of the following:

ECON 200	Principles of Microeconomics		3
ECON 201	Principles of Macroeconomics		3
POLS 101	Introduction to Government		3
POLS 212	United States Government		3
PSYC 101	General Psychology		3
SOCL 101	Introduction to Sociology		3
SOCL 212	Physical Anthropology & Archeology		3
SOCL 221	Social Problems		3

CATEGORY VI: HISTORY			3
HIST 204	United States History to 1877		3
<i>or</i>			
HIST 205	United States History Since 1877		3

CATEGORY VII: CULTURAL DIVERSITY			3
NAMS 181	Intro to Native American Studies		3
NAMS 211	Social Issues of the Native American		3

CATEGORY VIII: FINE ARTS			3
ART 101	Fundamentals of Art for Elem Teach		2
ART 110	Art Studio Essentials for Non-Art Majors		3
ART 142	Introduction to Pottery		3
ART 161	Introduction to Drawing		3
COMT 150	Introduction to Theater		3
COMT 155	Global Cinema		3
COMT 250	Introduction to Acting		3
ENGL 160	Reading and Responding to Literature		3
ENGL 204	Fundamentals of Creative Writing		3
ENGL 280	Fiction into Film		3
MUSC 100	Music Appreciation		3
MUSC 160/360	Symphonic Band		1
MUSC 162/362	Concert Choir		1
MUSC 168/368	Jazz Ensemble		1
PHIL 303	Comparative Mythology		3
CTDR 248	CAD Presentations		3

CATEGORY IX: INTEGRATED HUMANITIES			3
ART 132	Art History Survey		3
ENGL 260	World Foundations of Literature		3
HON 181	The Ancient and Medieval Worlds		3
HON 182	The Renaissance and Modern Worlds		3
MUSC 340	Music History to 1750		3
MUSC 341	Music History 1750 to the Present		3
PHIL 107	Philosophical Inquiry		3
PHIL 115	Ethics		3
PHIL 117	Philosophies of Life		3
PHIL/ENGL 240	The Bible as Literature		3
PHIL 250	Christianity		3
PHIL 301	Death, Dying, and Medical Ethics		3
PHIL 311	Environmental Ethics		3
PHIL 314	Business Ethics		3

