



*Access & Excellence*

**MONTANA STATE UNIVERSITY-BILLINGS  
 BACHELOR OF SCIENCE IN MATHEMATICS  
 TEACHING CERTIFICATE OPTION  
 MULTIPLE SUBJECT ENDORSEMENT  
 GENERAL BULLETIN 2005-2007**

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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.) <i>MATH 112 – Major Requirement</i>	#				
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) <i>EDF 100 – Education Core Requirement</i>					
Category VI: History (3 cr.)	# HIST 204 or 205				
Category VII: Cultural Diversity (3 cr.)	# NAMS 181 or 211				
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.*

**#Required for Admission to the Teacher Education Program.**

Reviewed:

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<b>CATEGORY I: WRITING</b>			<b>6</b>
<b>ENGL 150</b>	<b>College Composition</b>		<b>3</b>
ENGL 210	Technical Writing		3
ENGL 226	Research Writing		3
ENGL 301	Business Communication		3
ENGL 140	Business Writing		3
ENGL 145	Technical Communication		3

<b>CATEGORY II: ORAL SKILLS</b>			<b>3</b>
COMT 109	Human Relations		3
COMT 110	Interpersonal Communication		3
COMT 130	Introduction to Public Speaking		3

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

<b>CATEGORY IV: NATURAL SCIENCE</b>			<b>7</b>
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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

<b>CATEGORY V: SOCIAL SCIENCE</b>			<b>6</b>
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**EDF 100 Educ Persons for a Democratic Society 3**  
*and one of the following:*

BUS 101	Introduction to Business		3
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

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

<b>CATEGORY VII: CULTURAL DIVERSITY</b>			<b>3</b>
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<b>NAMS 181</b>	<b>Intro to Native American Studies</b>		<b>3</b>
<i>or</i>			
<b>NAMS 211</b>	<b>Social Issues of the Native American</b>		<b>3</b>

<b>CATEGORY VIII: FINE ARTS</b>			<b>3</b>
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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 Theatre and Performance		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	Classical Mythology		3
DSGN 248	CAD Presentations		3

<b>CATEGORY IX: INTEGRATED HUMANITIES</b>			<b>3</b>
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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



