



*Access & Excellence*

**MONTANA STATE UNIVERSITY-BILLINGS  
BACHELOR OF ARTS MAJOR IN BIOLOGY  
GENERAL BULLETIN 2003-2005**

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Name \_\_\_\_\_

Student ID # \_\_\_\_\_

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**GENERAL EDUCATION REQUIREMENTS – SEE PAGE 4 FOR SPECIFIC COURSES**

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<b>General Education Category</b>	<b>Course #</b>	<b>Credits</b>	<b>Grade</b>	<b>Semester</b>	<b>Equivalent</b>
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.*

<b>CATEGORY I: WRITING</b>			<b>6</b>
<b>ENGL</b>	<b>150</b>	<b>College Composition</b>	<b>3</b>
ENGL	210	Technical Writing	3
ENGL	226	Research Writing	3
ENGL	301	Business Communications	3
CTCM	202	Business Communication	3
CTCM	203	Technical Communication	3

<b>CATEGORY II: ORAL SKILLS</b>			<b>3</b>
COMT	101	Fundamentals of Communication	3
COMT	110	Interpersonal Communication	3
COMT	130	Introduction to Public Speaking	3
FREN	202	Intermediate French II	3
GERM	202	Intermediate German II	3
SPAN	202	Intermediate Spanish II	3
CTCM	109	Human Relations	3
CTCM	130	Introduction to Public Speaking	3

<b>CATEGORY III: MATHEMATICS</b>			<b>3</b>
FIN 201, 202, 203	Personal Financial Planning...		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
MATH	161	Mathematics for Health Sciences	4
MATH	202	Math for Elementary Education II	3
STAT	141	Introduction to Statistics	3
STAT	241	Statistical Methods	4
CTCM	122	College Mathematics for Technology	3

<b>CATEGORY IV: NATURAL SCIENCE</b>			<b>7</b>
<i>Students are required to take one course from each subcategory and at least one corresponding lab or SCIN 101, 102 &amp; 103</i>			
<i>Subcategory A – Life Sciences</i>			
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
<i>Subcategory B – Physical Sciences</i>			
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	Historical 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
PSSC	101	Physical World Around Us	3
PSSC	102	Physical World Around Us Lab	1
SCIN 101, 102, 103	Integrated Science I, II, III		3, 1, 3

<b>CATEGORY V: SOCIAL SCIENCE</b>			<b>6</b>
<i>Two courses from separate prefixes</i>			
BUS	101	Introduction to Business	3
ECON	200	Principles of Microeconomics	3
ECON	201	Principles of Macroeconomics	3
EDF	100	Educ Persons for a Democratic Society	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>
HIST	104	History of World Civilization to 1500	3
HIST	105	History of World Civilization Since 1500	3
HIST	106	Honors: History of Western Civ to 1648	3
HIST	107	Honors: History of Western Civ since 1648	3
HIST	109	Current World Problems	3
HIST	204	United States History to 1877	3
HIST	205	United States History Since 1877	3
POLS	221	International Relations	3

<b>CATEGORY VII: CULTURAL DIVERSITY</b>			<b>3</b>
ART	131	Global Visual Culture	3
A&SC/SOCL 250	Women, Culture and Society		3
GEOG	102	World Geography	3
GEOG	120	Environment and Culture	3
HIST	351	History of Islamic Civilization	3
HIST	353	The Middle East in the Twentieth Century	3
MUSC	150	Musics of the World	3
NAMS	181	Introduction to Native American Studies	3
NAMS	211	Social Issues of the Native American	3
PHIL	105	The Religious Quest	3
PHIL	233	Phil & Religions of India	3
PHIL	234	Phil & Religions of China, Tibet, & Japan	3
SOCL	211	Cultural Anthropology	3
SPAN	150	The Hispanic Tradition	3

<b>CATEGORY VIII: FINE ARTS</b>			<b>3</b>
ART	101	Fundamentals of Art for Elem Teachers	3
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	Classical Mythology	3
CTDR	248	CAD Presentations	3

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

		<b>Course</b>	<b>Credits</b>	<b>Grade</b>	<b>Semester</b>	<b>Equivalent</b>
<b>Biology Requirements</b>						
**BIOL	178	Principles of Biology	3			
**BIOL	188	Principles of Biology Lab	1			
BIOL	179	Biodiversity	3			
BIOL	189	Biodiversity Lab	1			
BIOL	263	Introduction to Cell Biology	3			
BIOL	273	Introduction to Cell Biology Lab	1			
BIOL	353	Genetics	3			
BIOL	354	Genetics Lab	1			
BIOL	355	Ecology and Evolution	3			
BIOL	356	Ecology and Evolution Lab	1			
BIOL	363	Molecular Biology	3			
BIOL	373	Molecular Biology Lab	1			
BIOL	495	Biological Research	2			
BIOL	498	Capstone Seminar	1			

**Unrestricted Biology electives (15 credits – at least 7 credits should be in upper division courses)**


**Chemistry Requirements**

**CHEM	115	General Chemistry I	3			
CHEM	118	General Chemistry I Lab	1			
CHEM	116	General Chemistry II	3			
CHEM	119	General Chemistry II Lab	1			
CHEM	220	Principles of Organic Chemistry	3			
CHEM	221	Principles of Organic Chemistry Lab	1			
CHEM/ BIOL	361	Biochemistry	3			
CHEM/ BIOL	371	Biochemistry Lab	1			

**Mathematics or Statistics Requirement (choose one of the following)**

**MATH	112	Calculus I	4			
**STAT	241	Statistical Methods	4			

\*\*Satisfy General Education requirements

Course	Credits	Grade	Semester	Equivalent
<b>Foreign Language Requirement (2 semesters/1full year of the same language)</b>				

<b>Electives</b>				

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**BACHELOR OF ARTS DEGREE IN BIOLOGY**

Categories	Credits	Earned
General Education	37	_____
Biology Major	62	_____
Language Requirement	8	_____
Electives (variable)	V	_____
Total	120	_____

**It is the student's responsibility to know and meet the requirements for graduation.  
A minimum of 36 credits must be upper division classes (300 and above)**

**NOTES:**