

Montana State University Billings Advising & Career Services Phone: 406-657-2240 Fax: 406-657-2302 advising@msubillings.edu www.msubillings.edu/advise/

ADVISING WORKSHEET BACHELOR OF SCIENCE DEGREE MAJOR IN CHEMISTRY General Bulletin 2020-2021

TRANSFER INSTITUTION(S):

Name	

Student ID #_____

General Education Category	Course #	Credits	Grade	Semester	Equivalent
Category I: Global Academic Skills (9 credits) A. Mathematics (3 credits) STAT 216 major requirement					
B. English (3 credits)					
C. Communication & Information Literacy (3 credits)					
Category II: Natural Sciences (7 credits) 2 lectures (6 credits) & 1 lab (1 credit) (1 life science & 1 physical science & 1 lab)	BIOB 160				
	BIOB 161				
CHMY 141 is a major requirement					
Category III: Social Sciences and History (6 credits) A. Social Science (3 credits)					
B. History (3 credits)					
Category IV: Cultural Diversity (3 credits)					
Category V: Arts & Humanities (6 credits) A. Fine Arts (3 credits)					
B. Humanities (3 credits)					

A minimum grade of "C-" required in all General Education courses.

Note: Certain degrees may require a minimum grade of "C" in General Education courses.

Reviewed:

GENERAL EDUCATION REQUIREMENTS

CATEGO	RY I:	GLOBAL ACADEMIC SKILLS 9 cre	dits
		equired to take one course from each subcatego	
		A - Mathematics 3 cre	
M	105	Contemporary Mathematics	3
M	114	Extended Technical Mathematics	3
M	121	College Algebra	3
M	121	College Trigonometry	3
M	130	Mathematics for Elementary Teachers I	3 3 3
M	140	College Math for Healthcare	3
M	143	Finite Mathematics	4
M	161	Survey of Calculus	3
M	171	Calculus I	4
STAT	141	Introduction to Statistical Concepts	3
STAT	216	Introduction to Statistics	4
51/11	210	Init built to Suusies	7
Subcates	gorv H	3 - English 3 cre	dits
WRIT	101	College Writing I	3
WRIT	121	Introduction to Technical Writing	3
WRIT	122	Introduction to Business Writing	3
WRIT	201	College Writing II	3
WRIT	2201	Business & Professional Writing	3
WRIT	220	Intermediate Technical Writing	3
WITTI	221	intermediate reclinical writing	5
Subcate	Jory (C- Communication & Information Literacy 3 ci	edits
BMIS 1		Cyber Security and Electronic Communication	
COMX 1		Introduction to Public Speaking	3
COMX 1		Introduction to Interpersonal Communication	3
LSCI 12		Research in the Information Age	3
100112.		Research in the information Age	5
CATEGO	RY II:	NATURAL SCIENCES 6 cr. lecture & 1 cr.	lab
		quired to take one course from each subcategor	
		responding lab or Integrated Sciences	y and
Subcate	ne cor	A – Life Sciences 3-4 cre	dite
			unts
кюк	101	Discover Biology	3
BIOB	101	85	3
BIOB	102	Discover Biology Lab	1
BIOB BIOB	102 121	Discover Biology Lab Fundamentals of Biology for Allied Health	-
BIOB	102	Discover Biology Lab Fundamentals of Biology for Allied Health Fund of Biology: Evolution, Ecology, and	1 3
BIOB BIOB BIOB	102 121 122	Discover Biology Lab Fundamentals of Biology for Allied Health Fund of Biology: Evolution, Ecology, and Biodiversity	1 3 3
BIOB BIOB BIOB	102 121 122 123	Discover Biology Lab Fundamentals of Biology for Allied Health Fund of Biology: Evolution, Ecology, and Biodiversity Fund of Biology: The Nature of Nutrition	1 3 3 3
BIOB BIOB BIOB BIOB BIOB	102 121 122 123 160	Discover Biology Lab Fundamentals of Biology for Allied Health Fund of Biology: Evolution, Ecology, and Biodiversity Fund of Biology: The Nature of Nutrition <i>Principles of Living Systems</i>	1 3 3 3 3
BIOB BIOB BIOB	102 121 122 123	Discover Biology Lab Fundamentals of Biology for Allied Health Fund of Biology: Evolution, Ecology, and Biodiversity Fund of Biology: The Nature of Nutrition	1 3 3 3
BIOB BIOB BIOB BIOB BIOB BIOB	102 121 122 123 160 161	Discover Biology Lab Fundamentals of Biology for Allied Health Fund of Biology: Evolution, Ecology, and Biodiversity Fund of Biology: The Nature of Nutrition <i>Principles of Living Systems</i> <i>Principles of Living Systems Lab</i>	1 3 3 3 3 1
BIOB BIOB BIOB BIOB BIOB BIOB Subcates	102 121 122 123 160 161 gory H	Discover Biology Lab Fundamentals of Biology for Allied Health Fund of Biology: Evolution, Ecology, and Biodiversity Fund of Biology: The Nature of Nutrition <i>Principles of Living Systems</i> <i>Principles of Living Systems Lab</i> B – Physical Sciences 3-4 cree	1 3 3 3 3 1 dits
BIOB BIOB BIOB BIOB BIOB BIOB Subcateg ASTR	102 121 122 123 160 161 gory H 110	Discover Biology Lab Fundamentals of Biology for Allied Health Fund of Biology: Evolution, Ecology, and Biodiversity Fund of Biology: The Nature of Nutrition <i>Principles of Living Systems</i> <i>Principles of Living Systems Lab</i> 3 – Physical Sciences Introduction to Astronomy 3 – Chemical Sciences 3 – Chemical Sciences	1 3 3 3 3 1 dits 3
BIOB BIOB BIOB BIOB BIOB BIOB Subcates ASTR ASTR	102 121 122 123 160 161 gory H 110 111	Discover Biology Lab Fundamentals of Biology for Allied Health Fund of Biology: Evolution, Ecology, and Biodiversity Fund of Biology: The Nature of Nutrition <i>Principles of Living Systems</i> <i>Principles of Living Systems Lab</i> 3 – Physical Sciences Introduction to Astronomy Introduction to Astronomy Lab	1 3 3 3 3 1 dits 3 1
BIOB BIOB BIOB BIOB BIOB BIOB Subcateg ASTR ASTR CHMY	102 121 122 123 160 161 gory H 110 111 121	Discover Biology Lab Fundamentals of Biology for Allied Health Fund of Biology: Evolution, Ecology, and Biodiversity Fund of Biology: The Nature of Nutrition <i>Principles of Living Systems</i> <i>Principles of Living Systems Lab</i> 3 – Physical Sciences Introduction to Astronomy Introduction to Astronomy Lab Introduction to General Chemistry	1 3 3 3 3 3 1 dits 3 1 3
BIOB BIOB BIOB BIOB BIOB BIOB Subcateg ASTR ASTR CHMY CHMY	102 121 122 123 <i>160</i> <i>161</i> gory F 110 111 121 122	Discover Biology Lab Fundamentals of Biology for Allied Health Fund of Biology: Evolution, Ecology, and Biodiversity Fund of Biology: The Nature of Nutrition <i>Principles of Living Systems</i> <i>Principles of Living Systems Lab</i> 3 – Physical Sciences Introduction to Astronomy Introduction to Astronomy Lab Introduction to General Chemistry Introduction to General Chemistry Lab	1 3 3 3 3 3 1 dits 3 1 3 1
BIOB BIOB BIOB BIOB BIOB BIOB Subcateg ASTR ASTR CHMY CHMY CHMY	102 121 122 123 160 161 gory H 110 111 121 122 141	Discover Biology Lab Fundamentals of Biology for Allied Health Fund of Biology: Evolution, Ecology, and Biodiversity Fund of Biology: The Nature of Nutrition <i>Principles of Living Systems</i> <i>Principles of Living Systems Lab</i> 3 – Physical Sciences Introduction to Astronomy Introduction to Astronomy Lab Introduction to General Chemistry Introduction to General Chemistry Lab <i>College Chemistry I</i>	1 3 3 3 3 3 1 dits 3 1 3 1 3
BIOB BIOB BIOB BIOB BIOB BIOB Subcateg ASTR ASTR CHMY CHMY CHMY CHMY	102 121 122 123 160 161 100 111 121 122 141 142	Discover Biology Lab Fundamentals of Biology for Allied Health Fund of Biology: Evolution, Ecology, and Biodiversity Fund of Biology: The Nature of Nutrition <i>Principles of Living Systems</i> <i>Principles of Living Systems Lab</i> 3 – Physical Sciences Introduction to Astronomy Introduction to Astronomy Lab Introduction to General Chemistry Introduction to General Chemistry Lab <i>College Chemistry Laboratory I</i>	1 3 3 3 3 1 dits 3 1 3 1 3 1 3 1
BIOB BIOB BIOB BIOB BIOB BIOB Subcateg ASTR ASTR CHMY CHMY CHMY CHMY GEO	102 121 122 123 160 161 100 111 121 122 141 142 101	Discover Biology Lab Fundamentals of Biology for Allied Health Fund of Biology: Evolution, Ecology, and Biodiversity Fund of Biology: The Nature of Nutrition <i>Principles of Living Systems</i> <i>Principles of Living Systems Lab</i> 3 – Physical Sciences Introduction to Astronomy Introduction to Astronomy Lab Introduction to General Chemistry Introduction to General Chemistry Lab <i>College Chemistry Laboratory I</i> Introduction to Physical Geology	1 3 3 3 3 3 1 dits 3 1 3 1 3 1 3 1 3
BIOB BIOB BIOB BIOB BIOB BIOB Subcateg ASTR ASTR CHMY CHMY CHMY CHMY GEO GEO	102 121 122 123 160 161 100 111 122 141 142 101 102	Discover Biology Lab Fundamentals of Biology for Allied Health Fund of Biology: Evolution, Ecology, and Biodiversity Fund of Biology: The Nature of Nutrition <i>Principles of Living Systems</i> <i>Principles of Living Systems Lab</i> 3 – Physical Sciences Introduction to Astronomy Introduction to Astronomy Lab Introduction to General Chemistry Introduction to General Chemistry Lab <i>College Chemistry I</i> <i>College Chemistry Laboratory I</i> Introduction to Physical Geology Introduction to Physical Geology Laborator	1 3 3 3 3 3 1 dits 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3
BIOB BIOB BIOB BIOB BIOB BIOB Subcateg ASTR ASTR CHMY CHMY CHMY CHMY GEO GEO GEO GPHY	102 121 122 123 160 161 5000 H 110 111 121 122 141 142 101 102 262	Discover Biology Lab Fundamentals of Biology for Allied Health Fund of Biology: Evolution, Ecology, and Biodiversity Fund of Biology: The Nature of Nutrition <i>Principles of Living Systems</i> <i>Principles of Living Systems</i> <i>B</i> – Physical Sciences 3-4 cree Introduction to Astronomy Lab Introduction to General Chemistry Introduction to General Chemistry Lab <i>College Chemistry Laboratory I</i> Introduction to Physical Geology Introduction to Physical Geology Laborator Spatial Sciences Technology & Application	1 3 3 3 3 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3
BIOB BIOB BIOB BIOB BIOB BIOB Subcates ASTR ASTR CHMY CHMY CHMY GEO GEO GEO GPHY GPHY	102 121 122 123 160 161 101 111 121 122 141 142 101 102 262 263	Discover Biology Lab Fundamentals of Biology for Allied Health Fund of Biology: Evolution, Ecology, and Biodiversity Fund of Biology: The Nature of Nutrition <i>Principles of Living Systems</i> <i>Principles of Living Systems</i> <i>B</i> – Physical Sciences 3-4 cree Introduction to Astronomy Lab Introduction to General Chemistry Introduction to General Chemistry Lab <i>College Chemistry I</i> <i>College Chemistry Laboratory I</i> Introduction to Physical Geology Introduction to Physical Geology Laborator Spatial Sciences & Technology Lab	1 3 3 3 3 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3
BIOB BIOB BIOB BIOB BIOB BIOB Subcates ASTR ASTR CHMY CHMY CHMY CHMY CHMY GEO GEO GEO GPHY PHSX	102 121 122 123 160 161 110 111 122 141 142 101 102 262 263 103	Discover Biology Lab Fundamentals of Biology for Allied Health Fund of Biology: Evolution, Ecology, and Biodiversity Fund of Biology: The Nature of Nutrition <i>Principles of Living Systems</i> <i>Principles of Living Systems</i> <i>B</i> – Physical Sciences Introduction to Astronomy Introduction to Astronomy Lab Introduction to General Chemistry Introduction to General Chemistry Lab <i>College Chemistry I</i> <i>College Chemistry Laboratory I</i> Introduction to Physical Geology Introduction to Physical Geology Laborator Spatial Sciences & Technology Lab Our Physical World	1 3 3 3 3 3 1 4 dits 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3
BIOB BIOB BIOB BIOB BIOB BIOB Subcates ASTR ASTR CHMY CHMY CHMY CHMY CHMY CHMY GEO GEO GEO GPHY GPHY PHSX PHSX	102 121 122 123 160 161 100 111 122 141 142 101 102 262 263 103 104	Discover Biology Lab Fundamentals of Biology for Allied Health Fund of Biology: Evolution, Ecology, and Biodiversity Fund of Biology: The Nature of Nutrition <i>Principles of Living Systems</i> <i>Principles of Living Systems Lab</i> 3 – Physical Sciences 3 – Physical Sciences Introduction to Astronomy Introduction to Astronomy Lab Introduction to General Chemistry Introduction to General Chemistry Lab <i>College Chemistry I</i> <i>College Chemistry Laboratory I</i> Introduction to Physical Geology Introduction to Physical Geology Laborator Spatial Sciences & Technology & Application Spatial Sciences & Technology Lab Our Physical World Our Physical World	1 3 3 3 3 1 4 dits 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3
BIOB BIOB BIOB BIOB BIOB BIOB Subcates ASTR ASTR CHMY CHMY CHMY CHMY CHMY CHMY GEO GEO GEO GPHY GPHY PHSX PHSX PHSX	102 121 122 123 160 161 100 111 121 141 142 161 102 262 263 103 104 205	Discover Biology Lab Fundamentals of Biology for Allied Health Fund of Biology: Evolution, Ecology, and Biodiversity Fund of Biology: The Nature of Nutrition <i>Principles of Living Systems</i> <i>Principles of Living Syste</i>	1 3 3 3 3 1 4 dits 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3
BIOB BIOB BIOB BIOB BIOB BIOB BIOB Subcates ASTR ASTR CHMY CHMY CHMY CHMY CHMY CHMY CHMY CHMY	102 121 122 123 160 161 100 111 122 141 142 101 102 262 263 103 104	Discover Biology Lab Fundamentals of Biology for Allied Health Fund of Biology: Evolution, Ecology, and Biodiversity Fund of Biology: The Nature of Nutrition <i>Principles of Living Systems</i> <i>Principles of Living Systems Lab</i> 3 – Physical Sciences 3 – Physical Sciences Introduction to Astronomy Introduction to Astronomy Lab Introduction to General Chemistry Introduction to General Chemistry Lab <i>College Chemistry I</i> <i>College Chemistry Laboratory I</i> Introduction to Physical Geology Introduction to Physical Geology Laborator Spatial Sciences & Technology & Application Spatial Sciences & Technology Lab Our Physical World Our Physical World	1 3 3 3 3 1 4 dits 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3
BIOB BIOB BIOB BIOB BIOB BIOB Subcates ASTR ASTR CHMY CHMY CHMY CHMY CHMY GEO GEO GPHY GPHY PHSX PHSX PHSX PHSX	102 121 122 123 160 161 110 111 122 141 142 101 102 262 263 103 104 205 206	Discover Biology Lab Fundamentals of Biology for Allied Health Fund of Biology: Evolution, Ecology, and Biodiversity Fund of Biology: The Nature of Nutrition <i>Principles of Living Systems</i> <i>Principles of Living Systems Lab</i> 3 – Physical Sciences Introduction to Astronomy Introduction to Astronomy Lab Introduction to General Chemistry Introduction to General Chemistry Lab <i>College Chemistry I</i> <i>College Chemistry Laboratory I</i> Introduction to Physical Geology Introduction to Physical Geology Laborator Spatial Sciences & Technology & Application Spatial Sciences & Technology Lab Our Physical World Our Physical World Our Physics I Lab	1 3 3 3 3 1 4 dits 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3
BIOB BIOB BIOB BIOB BIOB BIOB Subcates ASTR ASTR CHMY CHMY CHMY CHMY CHMY GEO GEO GPHY GEO GPHY PHSX PHSX PHSX PHSX Integrate	102 121 122 123 160 161 110 111 122 141 142 101 102 262 263 103 104 205 206	Discover Biology Lab Fundamentals of Biology for Allied Health Fund of Biology: Evolution, Ecology, and Biodiversity Fund of Biology: The Nature of Nutrition <i>Principles of Living Systems</i> <i>Principles of Living Systems Lab</i> 3 – Physical Sciences Introduction to Astronomy Introduction to Astronomy Lab Introduction to General Chemistry Introduction to General Chemistry Lab <i>College Chemistry I</i> <i>College Chemistry Laboratory I</i> Introduction to Physical Geology Introduction to Physical Geology Laborator Spatial Sciences & Technology & Application Spatial Sciences & Technology Lab Our Physical World Our Physical World Our Physics I Lab Physical Sciences I Lab	1 3 3 3 3 1 4 dits 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3
BIOB BIOB BIOB BIOB BIOB BIOB Subcates ASTR ASTR CHMY CHMY CHMY CHMY CHMY GEO GEO GPHY GEO GPHY PHSX PHSX PHSX PHSX Integrate	102 121 122 123 160 161 110 111 122 141 142 101 102 262 263 103 104 205 206	Discover Biology Lab Fundamentals of Biology for Allied Health Fund of Biology: Evolution, Ecology, and Biodiversity Fund of Biology: The Nature of Nutrition <i>Principles of Living Systems</i> <i>Principles of Living Systems Lab</i> 3 – Physical Sciences Introduction to Astronomy Introduction to Astronomy Lab Introduction to General Chemistry Introduction to General Chemistry Lab <i>College Chemistry I</i> <i>College Chemistry Laboratory I</i> Introduction to Physical Geology Introduction to Physical Geology Laborator Spatial Sciences & Technology & Application Spatial Sciences & Technology Lab Our Physical World Our Physical World Our Physics I Lab	1 3 3 3 3 1 4 dits 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3
BIOB BIOB BIOB BIOB BIOB BIOB Subcates ASTR ASTR CHMY CHMY CHMY CHMY CHMY GEO GEO GPHY GEO GPHY PHSX PHSX PHSX PHSX Integrate	102 121 122 123 160 161 110 111 122 141 142 101 102 262 263 103 104 205 206	Discover Biology Lab Fundamentals of Biology for Allied Health Fund of Biology: Evolution, Ecology, and Biodiversity Fund of Biology: The Nature of Nutrition <i>Principles of Living Systems</i> <i>Principles of Living Systems Lab</i> 3 – Physical Sciences Introduction to Astronomy Introduction to Astronomy Lab Introduction to General Chemistry Introduction to General Chemistry Lab <i>College Chemistry I</i> <i>College Chemistry Laboratory I</i> Introduction to Physical Geology Introduction to Physical Geology Laborator Spatial Sciences & Technology & Application Spatial Sciences & Technology Lab Our Physical World Our Physical World Our Physics I Lab Physical Sciences I Lab	1 3 3 3 3 1 4 dits 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3

		SOCIAL SCIENCES AND HISTORY 6 CRED	
		uired to take one course from each subcategory	
		– Social Sciences 3 credit	
ANTY	217	Physical Anthropology & Archeology	3
BGEN	105	Introduction to Business	3
COMX ECNS	106 201	Communicating in a Dynamic Workplace Principles of Microeconomics	3
ECNS	201	Principles of Macroeconomics	3
EDU	105	Education and Democracy	3
HTH	110	Personal Health and Wellness	3 3 3 3 3 3 3 3 3 3 3 3 3
PSCI	210	Introduction to American Government	3
PSCI	220	Introduction to Comparative Government	3
PSYX	100	Introduction to Psychology	3
SOCI	101	Introduction to Sociology	
SOCI	201	Social Problems	3
Subcates	orv B	- History 3 cred	lits
HSTA	101	American History I	3
HSTA	102	American History II	
HSTR	101	Western Civilization I	3 3 3 3 3
HSTR	102	Western Civilization II	3
HSTR	103	Honors Western Civilization I	3
HSTR	104	Honors Western Civilization II	
PSCI	230	Introduction to International Relations	3
CATEGO	DV IV.	CULTURAL DIVERSITY 3 crea	lite
ANTY	220	Culture and Society	3
ARTH	160	Global Visual Culture	3
COMX	212	Intro to Intercultural Communication	3
GPHY	121	Human Geography	3
HTH	270	Global Health Issues	3
LIT	230	World Literature Survey	3
MUSI	207	World Music	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
NASX	105	Introduction to Native American Studies	3
NASX PHL	205 271	Native Americans in Contemporary Society Indian Philosophies and Religions	3
PHL	271	Chinese Philosophies and Religions	3
REHA	201	Introduction to Diversity in Counseling	3
RLST	170	The Religious Quest	3
SPNS	150	The Hispanic Tradition	
WGSS	274	Women, Culture, and Society	3
CATECO	DV V.	ARTS & HUMANITIES 6 cred	lita
		uired to take one course from each subcategory	
		– Fine Arts 3 cred	
ARTZ	101	Art Fundamentals	3
ARTZ	105	Visual Language-Drawing	3
ARTZ	106	Visual Language-2-D Foundations	3
ARTZ	108	Visual Language-3-D Foundations	3
ARTZ CRWR	131 240	Ceramics for Non-majors Intro Creative Writing Workshop	с 2
FILM	240 160	Introduction to World Cinema	3
LIT	100		2
	270	Film & Literature	3
MART	270 260		3 3
		Film & Literature Computer Presentation and Animation Enjoyment of Music	3 3 3 3 3 3 3 3 3 3 3 3
MART MUSI MUSI	260 101 114	Computer Presentation and Animation Enjoyment of Music Band: MSUB Symphonic	3 1
MART MUSI MUSI MUSI	260 101 114 131	Computer Presentation and Animation Enjoyment of Music Band: MSUB Symphonic Jazz Ensemble I: MSUB	3 1 1
MART MUSI MUSI MUSI MUSI	260 101 114 131 147	Computer Presentation and Animation Enjoyment of Music Band: MSUB Symphonic Jazz Ensemble I: MSUB Choral Ensemble: University Chorus	3 1 1 1
MART MUSI MUSI MUSI MUSI PHOT	260 101 114 131 147 154	Computer Presentation and Animation Enjoyment of Music Band: MSUB Symphonic Jazz Ensemble I: MSUB Choral Ensemble: University Chorus Exploring Digital Photography	3 1 1 1 3
MART MUSI MUSI MUSI PHOT THTR	260 101 114 131 147 154 101	Computer Presentation and Animation Enjoyment of Music Band: MSUB Symphonic Jazz Ensemble I: MSUB Choral Ensemble: University Chorus Exploring Digital Photography Introduction to Theatre	3 1 1 1
MART MUSI MUSI MUSI PHOT THTR THTR	260 101 114 131 147 154 101 120	Computer Presentation and Animation Enjoyment of Music Band: MSUB Symphonic Jazz Ensemble I: MSUB Choral Ensemble: University Chorus Exploring Digital Photography Introduction to Theatre Introduction to Acting I	3 1 1 3 3 3
MART MUSI MUSI MUSI PHOT THTR THTR Subcate	260 101 114 131 147 154 101 120 gory B	Computer Presentation and Animation Enjoyment of Music Band: MSUB Symphonic Jazz Ensemble I: MSUB Choral Ensemble: University Chorus Exploring Digital Photography Introduction to Theatre Introduction to Acting I - Humanities 3 creat	3 1 1 3 3 3
MART MUSI MUSI MUSI PHOT THTR THTR Subcate ARTH	260 101 114 131 147 154 101 120 gory B 150	Computer Presentation and Animation Enjoyment of Music Band: MSUB Symphonic Jazz Ensemble I: MSUB Choral Ensemble: University Chorus Exploring Digital Photography Introduction to Theatre Introduction to Acting I - Humanities 3 creat Introduction to Art History	3 1 1 3 3 3 lits 3
MART MUSI MUSI MUSI PHOT THTR THTR Subcate ARTH HONR	260 101 114 131 147 154 101 120 gory B 150 111	Computer Presentation and Animation Enjoyment of Music Band: MSUB Symphonic Jazz Ensemble I: MSUB Choral Ensemble: University Chorus Exploring Digital Photography Introduction to Theatre Introduction to Acting I - Humanities 3 creat Introduction to Art History Perspectives and Understanding	3 1 1 3 3 3 lits 3
MART MUSI MUSI MUSI PHOT THTR THTR Subcate ARTH HONR LIT	260 101 114 131 147 154 101 120 gory B 150 111 110	Computer Presentation and Animation Enjoyment of Music Band: MSUB Symphonic Jazz Ensemble I: MSUB Choral Ensemble: University Chorus Exploring Digital Photography Introduction to Theatre Introduction to Acting I - Humanities 3 cred Introduction to Art History Perspectives and Understanding Introduction to Literature	3 1 1 3 3 3 lits 3
MART MUSI MUSI MUSI PHOT THTR THTR Subcate ARTH HONR LIT LIT	260 101 114 131 147 154 101 120 gory B 150 111 110 213	Computer Presentation and Animation Enjoyment of Music Band: MSUB Symphonic Jazz Ensemble I: MSUB Choral Ensemble: University Chorus Exploring Digital Photography Introduction to Theatre Introduction to Acting I - Humanities 3 creat Introduction to Art History Perspectives and Understanding Introduction to Literature Montana Literature	3 1 1 3 3 3 lits 3
MART MUSI MUSI MUSI PHOT THTR THTR Subcate ARTH HONR LIT	260 101 114 131 147 154 101 120 gory B 150 111 110	Computer Presentation and Animation Enjoyment of Music Band: MSUB Symphonic Jazz Ensemble I: MSUB Choral Ensemble: University Chorus Exploring Digital Photography Introduction to Theatre Introduction to Acting I - Humanities 3 cred Introduction to Art History Perspectives and Understanding Introduction to Literature	3 1 1 3 3 3 lits 3
MART MUSI MUSI MUSI PHOT THTR THTR Subcate ARTH HONR LIT LIT PHL	260 101 114 131 147 154 101 120 gory B 150 111 110 213 110	Computer Presentation and Animation Enjoyment of Music Band: MSUB Symphonic Jazz Ensemble I: MSUB Choral Ensemble: University Chorus Exploring Digital Photography Introduction to Theatre Introduction to Acting I - Humanities 3 cred Introduction to Art History Perspectives and Understanding Introduction to Literature Montana Literature Introduction to Ethics	3 1 1 3 3 3

		Course	Credits	Grade	Semester	Equivalent
Chemistry	Requirer	A minimum grade of C- or better is require	ed in all ma	ijor course	ework	
*CHMY	141	College Chemistry I	3			
*CHMY	142	College Chemistry Laboratory I	1			
CHMY	143	College Chemistry II	3			
CHMY	144	College Chemistry Laboratory II	1			
CHMY	311	Analytical Chemistry – Quantitative Analysis	3			
СНМҮ	312	Analytical Chemistry Laboratory – Quantitative Analysis	1			
СНМҮ	321	Organic Chemistry I	3			
СНМҮ	322	Organic Chemistry Laboratory I	1			
СНМҮ	323	Organic Chemistry II	3			
CHMY	324	Organic Chemistry Laboratory II	1			
CHMY	361	Elements of Physical Chemistry Laboratory	3			
СНМҮ	362	Elements of Physical Chemistry Laboratory	1			
СНМҮ	401	Advanced Inorganic Chemistry	3			
CHMY	402	Advanced Inorganic Chemistry Laboratory	1			
CHMY	411	Advanced Organic Chemistry	3			
СНМҮ	412	Advanced Organic Chemistry Laboratory	1			
СНМҮ	421	Advanced Instrument Analysis	3			
CHMY	422	Advanced Instrumental Analysis Laboratory	2			
CHMY	490	Undergraduate Research	2			
CHMY	494	Seminar / Workshop	1			
CHMY	498	Internship / Cooperative Education	2			
BCH	380	Biochemistry	3			
BCH	381	Biochemistry Lab	1			
BCH	480	Advanced Biochemistry I	3			
BCH	481	Advanced Biochemistry I Lab	1			

Mathematics Requirement

*STAT	216	Introduction to Statistics and	4		
Choose on	ne set:				
*М	171	Calculus I and	4		
М	172	Calculus II	4		
OR					
М	161	Survey of Calculus and	3		
М		Math Electives	5		
		Mathematics To	tal 12		

Mathematics Total

Physics Requirements

PHSX	220	Physics I	3		
PHSX	221	Physics I Lab	1		
PHSX	232	Physics II and Thermo	3		
PHSX	233	Physics II and Thermo Laboratory	1		
		Physics Total	8		

* May satisfy General Education requirements.

Course	Credits	Grade	Semester	Equivalent

Science and Math Electives (23 credits selected with advisor approval)

Electives

	-	

BACHELOR OF SCIENCE DEGREE IN CHEMISTRY

Categories	Credits	Earned	Remaining
General Education	31		
Chemistry Requirements	**47		
Mathematics Requirements	**9		
Physics Requirements	8		
Science and Math Electives	23		
Electives (variable)	V		
Total	120		

**3 credits that also satisfy General Education requirements are not included in the total number of credits. The total number of elective credits required for the degree will be determined by the number of courses a student elects to take which fulfill both General Education requirements and major requirements. Electives should be chosen in consultation with an academic advisor.

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: