

## ADVISING WORKSHEET

BACHELOR OF SCIENCE DEGREE MAJOR IN CHEMISTRY General Bulletin 2019-2020

TRANSFER INSTITUTION(S):				

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

Name		
Student ID #_	 	 

## GENERAL EDUCATION REQUIREMENTS - SEE ATTACHED PAGE FOR SPECIFIC COURSES

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)					
Communication and the second of the second o					
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.

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## GENERAL EDUCATION REQUIREMENTS

CATEGORY I: GLOBAL ACADEMIC SKILLS 9 credits  Students are required to take one course from each subcategory  Subcategory A - Mathematics 3 credits	CATEGORY III: SOCIAL SCIENCES AND HISTORY 6 CR	
		DHS
	Students are required to take one course from each subcates	orv
	1	edits
M 105 Contemporary Mathematics 3	ANTY 217 Physical Anthropology & Archeology	3
M 114 Extended Technical Mathematics 3	BGEN 105 Introduction to Business	3
M 121 College Algebra 3	COMX 106 Communicating in a Dynamic Workplace	3
M 122 College Trigonometry 3	ECNS 201 Principles of Microeconomics	3
		2
M 130 Mathematics for Elementary Teachers I 3	ECNS 202 Principles of Macroeconomics	3
M 140 College Math for Healthcare 3	EDU 105 Education and Democracy	3
M 143 Finite Mathematics 4	GPHY 141 Geography of World Regions	3
M 161 Survey of Calculus 3	HTH 110 Personal Health and Wellness	3
<b>3</b>		
M 171 Calculus I 4	PSCI 210 Introduction to American Government	3
STAT 141 Introduction to Statistical Concepts 3	PSCI 220 Introduction to Comparative Government	3
STAT 216 Introduction to Statistics 4	PSYX 100 Introduction to Psychology	3
	SOCI 101 Introduction to Sociology	3
Subsets gowy D. Fuelish	23	3
Subcategory B - English 3 credits	SOCI 201 Social Problems	3
WRIT 101 College Writing I 3		
WRIT 121 Introduction to Technical Writing 3	Subcategory B - History 3 c	edits
WRIT 122 Introduction to Business Writing 3	HSTA 101 American History I	3
WRIT 201 College Writing II 3	HSTA 102 American History II	3
WRIT 220 Business & Professional Writing 3	HSTR 101 Western Civilization I	3
WRIT 221 Intermediate Technical Writing 3	HSTR 102 Western Civilization II	3
	HSTR 103 Honors Western Civilization I	3
Subcategory C- Communication & Information Literacy 3 credits	HSTR 104 Honors Western Civilization II	3
BMIS 150 Cyber Security and Electronic Communication 3	PSCI 230 Introduction to International Relations	3
COMX 111 Introduction to Public Speaking 3		
COMX 115 Introduction to Interpersonal Communication 3	CATEGORY IV: CULTURAL DIVERSITY 3 cm	edits
LSCI 125 Research in the Information Age 3	A&SC/WGSS 274 Women, Culture, and Society	3
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CATEGORY H. NATURAL SCHENGES Con lockups & 1 on lok	ANTY 220 Culture and Society	3
CATEGORY II: NATURAL SCIENCES 6 cr. lecture & 1 cr. lab	ARTH 160 Global Visual Culture	3
Students are required to take one course from each subcategory and	COMX 212 Introduction to Intercultural Communication	on 3
at least one corresponding lab or Integrated Sciences	GPHY 121 Human Geography	3
Subcategory A – Life Sciences 3-4 credits	HTH 270 Global Health Issues	3
BIOB 101 Discover Biology 3	LIT 230 World Literature	3
BIOB 102 Discover Biology Lab 1	MUSI 207 World Music	3
BIOB 121 Fundamentals of Biology for Allied Health 3	NASX 105 Introduction to Native American Studies	3
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BIOB 122 Fund of Biology: Evolution, Ecology, and	NASX 205 Native Americans in Contemporary Socie	
Biodiversity 3	PHL 271 Indian Philosophies and Religions	3
	PHL 272 Chinese Philosophies and Religions	3
BIOB 123 Fund of Biology: The Nature of Nutrition 3		
BIOB 123 Fund of Biology: The Nature of Nutrition 3  BIOB 160 Principles of Living Systems 3		2
BIOB 160 Principles of Living Systems 3	REHA 201 Introduction to Diversity in Counseling	3
	REHA 201 Introduction to Diversity in Counseling RLST 170 The Religious Quest	3
BIOB 160 Principles of Living Systems 3	REHA 201 Introduction to Diversity in Counseling RLST 170 The Religious Quest	
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		Course	Credits	Grade	Semester	Equivalent
	ъ .	A minimum grade of C- or better is requir	ed in all ma	jor course	rwork	
Chemistry *CHMY	Requiren	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			
CHMY	311	Analytical Chemistry Laboratory – Quantitative	1			
CHIVIT	312	Analysis	1			
CHMY	321	Organic Chemistry I	3			
CHMY	322	Organic Chemistry Laboratory I	1			
CHMY	323	Organic Chemistry II	3			
CHMY	324	Organic Chemistry Laboratory II	1			
СНМҮ	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			
CHMY	412	Advanced Organic Chemistry Laboratory	1			
CHMY	421	Advanced Instrument Analysis	3			
СНМҮ	422	Advanced Instrumental Analysis Laboratory	2			
СНМҮ	490	Undergraduate Research	2			
СНМҮ	494	Seminar / Workshop	1			
СНМҮ	498	Internship / Cooperative Education	2			
ВСН	380	Biochemistry	3			
ВСН	381	Biochemistry Lab	1			
ВСН	480	Advanced Biochemistry I	3			
ВСН	481	Advanced Biochemistry I Lab	1			
		Chemistry Total	50			
3.5 (1)	· .					
*STAT	tics Requir 216	Introduction to Statistics and	4			
Choose on	e set:					
*M	171	Calculus I and	4			
M	172	Calculus II	4			
OR M	161	Survey of Calculus and	3			
M	101	Math Electives	5			
		Mathematics Total	12			
			12			
Physics Ro	equiremen 220	Physics I	3		-	
PHSX	221	Physics I Lab	1			
PHSX	232	Physics II and Thermo	3			
PHSX	232	Physics II and Thermo Laboratory	1			
1 ПЗЛ	233	Physics II and Thermo Laboratory	0			

Physics Total 8

<sup>\*</sup> May satisfy General Education requirements.

Course	Credits	Grade	e Semester	Equivalent
Science and Math Electives (23 credits selected with advisor approval)				
Science and Mach Electrics (20 creats science with advisor approval)				
	1			
Electives				
	1			
	1			
	1			

## 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		

<sup>\*\*3</sup> 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: