

ADVISING WORKSHEET

BACHELOR OF SCIENCE DEGREE MAJOR IN CHEMISTRY GENERAL BULLETIN 2021-2022

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)					
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.

Reviev	ved:			

GENERAL EDUCATION REQUIREMENTS

CATEGORY I: GLOBAL ACADEMIC SKILLS 9 credits	CATEGORY III: SOCIAL SCIENCES AND HISTORY 6 CREDITS
Students are required to take one course from each subcategory	Students are required to take one course from each subcategory
Subcategory A - Mathematics 3 credits	Subcategory A – Social Sciences 3 credits
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
M 130 Mathematics for Elementary Teachers I 3	ECNS 202 Principles of Macroeconomics 3
M 140 College Math for Healthcare 3 M 143 Finite Mathematics 4	EDU 105 Education and Democracy 3 HTH 110 Personal Health and Wellness 3
M 161 Survey of Calculus 3	PSCI 210 Introduction to American Government 3
M 171 Calculus I 4	PSCI 220 Introduction to Comparative Government 3
STAT 141 Introduction to Statistical Concepts 3	PSYX 100 Introduction to Psychology 3
STAT 216 Introduction to Statistics 4	SOCI 101 Introduction to Sociology 3
	SOCI 201 Social Problems 3
Subcategory B - English 3 credits	
WRIT 101 College Writing I 3	Subcategory B - History 3 credits
WRIT 121 Introduction to Technical Writing 3	HSTA 101 American History I 3
WRIT 122 Introduction to Business Writing 3	HSTA 102 American History II 3
WRIT 201 College Writing II 3	HSTR 101 Western Civilization I 3
WRIT 220 Business & Professional Writing 3	HSTR 102 Western Civilization II 3
WRIT 221 Intermediate Technical Writing 3	PSCI 230 Introduction to International Relations 3
Subcategory C- Communication & Information Literacy 3 credits	CATEGORY IV: CULTURAL DIVERSITY 3 credits
BMIS 150 Cyber Security and Electronic Communication 3	ANTY 220 Culture and Society 3
COMX 111 Introduction to Public Speaking 3 COMX 115 Introduction to Interpersonal Communication 3	ARTH 160 Global Visual Culture 3
1	COMX 212 Intro to Intercultural Communication 3
LSCI 125 Research in the Information Age 3	GPHY 121 Human Geography 3
CHTEGORY H. NATTURAL COUNTRY	HTH 270 Global Health Issues 3
CATEGORY II: NATURAL SCIENCES 6 cr. lecture & 1 cr. lab	LIT 230 World Literature Survey 3
Students are required to take one course from each subcategory and	MUSI 207 World Music 3
at least one corresponding lab <u>or</u> Integrated Sciences	NASX 105 Introduction to Native American Studies 3
Subcategory A – Life Sciences 3-4 credits	NASX 205 Native Americans in Contemporary Society 3
BIOB 101 Discover Biology 3 BIOB 102 Discover Biology Lab 1	PHL 271 Indian Philosophies and Religions 3 PHL 272 Chinese Philosophies and Religions 3
	REHA 201 Introduction to Diversity in Counseling 3
	RETIA 201 Illubuluction to Diversity ill Counselling 3
BIOB 121 Fundamentals of Biology for Allied Health 3 BIOB 122 Fund of Biology: Evolution Feedory and	
BIOB 122 Fund of Biology: Evolution, Ecology, and	RLST 170 The Religious Quest 3
BIOB 122 Fund of Biology: Evolution, Ecology, and Biodiversity 3	RLST 170 The Religious Quest 3 SPNS 150 The Hispanic Tradition 3
BIOB 122 Fund of Biology: Evolution, Ecology, and Biodiversity 3 BIOB 123 Fund of Biology: The Nature of Nutrition 3	RLST 170 The Religious Quest 3
BIOB 122 Fund of Biology: Evolution, Ecology, and Biodiversity 3 BIOB 123 Fund of Biology: The Nature of Nutrition 3 BIOB 160 Principles of Living Systems 3	RLST 170 The Religious Quest 3 SPNS 150 The Hispanic Tradition 3 WGSS 274 Women, Culture, and Society 3
BIOB 122 Fund of Biology: Evolution, Ecology, and Biodiversity 3 BIOB 123 Fund of Biology: The Nature of Nutrition 3 BIOB 160 Principles of Living Systems 3 BIOB 161 Principles of Living Systems Lab 1	RLST 170 The Religious Quest 3 SPNS 150 The Hispanic Tradition 3 WGSS 274 Women, Culture, and Society 3 CATEGORY V: ARTS & HUMANITIES 6 credits
BIOB 122 Fund of Biology: Evolution, Ecology, and Biodiversity 3 BIOB 123 Fund of Biology: The Nature of Nutrition 3 BIOB 160 Principles of Living Systems 3 BIOB 161 Principles of Living Systems Lab 1 Subcategory B – Physical Sciences 3-4 credits	RLST 170 The Religious Quest 3 SPNS 150 The Hispanic Tradition 3 WGSS 274 Women, Culture, and Society 3 CATEGORY V: ARTS & HUMANITIES 6 credits Students are required to take one course from each subcategory
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BIOB 122 Fund of Biology: Evolution, Ecology, and Biodiversity 3 BIOB 123 Fund of Biology: The Nature of Nutrition 3 BIOB 160 Principles of Living Systems 3 BIOB 161 Principles of Living Systems Lab 1 Subcategory B - Physical Sciences 3-4 credits ASTR 110 Introduction to Astronomy 3 ASTR 111 Introduction to Astronomy Lab 1 CHMY 121 Introduction to General Chemistry 3 CHMY 122 Introduction to General Chemistry Lab 1 CHMY 141 College Chemistry I 3 CHMY 142 College Chemistry I 3 GEO 101 Introduction to Physical Geology 3 GEO 102 Introduction to Physical Geology 3 GEO 102 Introduction to Physical Geology 4 GPHY 262 Spatial Sciences Technology & Applications 3 GPHY 263 Spatial Sciences Technology Lab 1 PHSX 103 Our Physical World 3 PHSX 104 Our Physical World Lab 1 PHSX 205 College Physics I 3 PHSX 206 College Physics I Lab 1 Integrated Sciences	RLST 170 The Religious Quest 3 SPNS 150 The Hispanic Tradition 3 WGSS 274 Women, Culture, and Society 3 CATEGORY V: ARTS & HUMANITIES 6 credits Students are required to take one course from each subcategory Subcategory A - Fine Arts 3 credits ARTZ 101 Art Fundamentals 3 ARTZ 105 Visual Language-Drawing 3 ARTZ 106 Visual Language-Drawing 3 ARTZ 108 Visual Language-3-D Foundations 3 ARTZ 131 Ceramics for Non-majors 3 CRWR 240 Intro Creative Writing Workshop 3 FILM 160 Introduction to World Cinema 3 LIT 270 Film & Literature 3 MART 260 Computer Presentation and Animation 3 MUSI 101 Enjoyment of Music 3 MUSI 101 Enjoyment of Music 3 MUSI 114 Band: MSUB Symphonic 1 MUSI 131 Jazz Ensemble I: MSUB 1 MUSI 147 Choral Ensemble: University Chorus 1 PHOT 154 Exploring Digital Photography 3 THTR 101 Introduction to Theatre 3 THTR 120 Introduction to Acting I 3 Subcategory B - Humanities 3 credits ARTH 150 Introduction to Art History 3 HONR 111 Perspectives and Understanding 3
BIOB 122 Fund of Biology: Evolution, Ecology, and Biodiversity 3 BIOB 123 Fund of Biology: The Nature of Nutrition 3 BIOB 160 Principles of Living Systems 3 BIOB 161 Principles of Living Systems Lab 1 Subcategory B - Physical Sciences 3-4 credits ASTR 110 Introduction to Astronomy 3 ASTR 111 Introduction to Astronomy Lab 1 CHMY 121 Introduction to General Chemistry 3 CHMY 122 Introduction to General Chemistry Lab 1 CHMY 141 College Chemistry I 3 CHMY 142 College Chemistry I 3 GEO 101 Introduction to Physical Geology 3 GEO 102 Introduction to Physical Geology 3 GEO 102 Introduction to Physical Geology 4 GPHY 262 Spatial Sciences Technology & Applications 3 GPHY 263 Spatial Sciences Technology Lab 1 PHSX 103 Our Physical World 3 PHSX 104 Our Physical World Lab 1 PHSX 205 College Physics I 3 PHSX 206 College Physics I Lab 1 Integrated Sciences	RLST 170 The Religious Quest 3 SPNS 150 The Hispanic Tradition 3 WGSS 274 Women, Culture, and Society 3 CATEGORY V: ARTS & HUMANITIES 6 credits Students are required to take one course from each subcategory Subcategory A – Fine Arts 3 credits ARTZ 101 Art Fundamentals 3 ARTZ 105 Visual Language-Drawing 3 ARTZ 106 Visual Language-Drawing 3 ARTZ 108 Visual Language-3-D Foundations 3 ARTZ 131 Ceramics for Non-majors 3 CRWR 240 Intro Creative Writing Workshop 3 FILM 160 Introduction to World Cinema 3 LIT 270 Film & Literature 3 MART 260 Computer Presentation and Animation 3 MUSI 101 Enjoyment of Music 3 MUSI 114 Band: MSUB Symphonic 1 MUSI 131 Jazz Ensemble I: MSUB 1 MUSI 147 Choral Ensemble: University Chorus 1 PHOT 154 Exploring Digital Photography 3 THTR 101 Introduction to Acting I 3 Subcategory B - Humanities 3 credits ARTH 150 Introduction to Art History 3 HONR 111 Perspectives and Understanding 3 LIT 110 Introduction to Literature 3 LIT 213 Montana Literature 3 PHL 110 Introduction to Ethics 3
BIOB 122 Fund of Biology: Evolution, Ecology, and Biodiversity 3 BIOB 123 Fund of Biology: The Nature of Nutrition 3 BIOB 160 Principles of Living Systems 3 BIOB 161 Principles of Living Systems Lab 1 Subcategory B - Physical Sciences 3-4 credits ASTR 110 Introduction to Astronomy 3 ASTR 111 Introduction to Astronomy Lab 1 CHMY 121 Introduction to General Chemistry 3 CHMY 122 Introduction to General Chemistry Lab 1 CHMY 141 College Chemistry I 3 CHMY 142 College Chemistry I 3 GEO 101 Introduction to Physical Geology 3 GEO 102 Introduction to Physical Geology 3 GEO 102 Introduction to Physical Geology 4 GPHY 262 Spatial Sciences Technology & Applications 3 GPHY 263 Spatial Sciences Technology Lab 1 PHSX 103 Our Physical World 3 PHSX 104 Our Physical World Lab 1 PHSX 205 College Physics I 3 PHSX 206 College Physics I Lab 1 Integrated Sciences	RLST 170 The Religious Quest 3 SPNS 150 The Hispanic Tradition 3 WGSS 274 Women, Culture, and Society 3 CATEGORY V: ARTS & HUMANITIES 6 credits Students are required to take one course from each subcategory Subcategory A – Fine Arts 3 credits ARTZ 101 Art Fundamentals 3 ARTZ 105 Visual Language-Drawing 3 ARTZ 106 Visual Language-Drawing 3 ARTZ 108 Visual Language-3-D Foundations 3 ARTZ 131 Ceramics for Non-majors 3 CRWR 240 Intro Creative Writing Workshop 3 FILM 160 Introduction to World Cinema 3 LIT 270 Film & Literature 3 MART 260 Computer Presentation and Animation 3 MUSI 101 Enjoyment of Music 3 MUSI 101 Enjoyment of Music 3 MUSI 114 Band: MSUB Symphonic 1 MUSI 131 Jazz Ensemble I: MSUB 1 MUSI 147 Choral Ensemble: University Chorus 1 PHOT 154 Exploring Digital Photography 3 THTR 101 Introduction to Acting I 3 Subcategory B - Humanities 3 credits ARTH 150 Introduction to Art History 3 HONR 111 Perspectives and Understanding 3 LIT 110 Introduction to Literature 3 HONR 111 Perspectives and Understanding 3 LIT 110 Introduction to Literature 3 PHL 110 Introduction to Ethics 3 PHL 111 Philosophies of Life 3
BIOB 122 Fund of Biology: Evolution, Ecology, and Biodiversity 3 BIOB 123 Fund of Biology: The Nature of Nutrition 3 BIOB 160 Principles of Living Systems 3 BIOB 161 Principles of Living Systems Lab 1 Subcategory B - Physical Sciences 3-4 credits ASTR 110 Introduction to Astronomy 3 ASTR 111 Introduction to Astronomy Lab 1 CHMY 121 Introduction to General Chemistry 3 CHMY 122 Introduction to General Chemistry Lab 1 CHMY 141 College Chemistry I 3 CHMY 142 College Chemistry I 3 GEO 101 Introduction to Physical Geology 3 GEO 102 Introduction to Physical Geology 3 GEO 102 Introduction to Physical Geology 4 GPHY 262 Spatial Sciences Technology & Applications 3 GPHY 263 Spatial Sciences Technology Lab 1 PHSX 103 Our Physical World 3 PHSX 104 Our Physical World Lab 1 PHSX 205 College Physics I 3 PHSX 206 College Physics I Lab 1 Integrated Sciences	RLST 170 The Religious Quest 3 SPNS 150 The Hispanic Tradition 3 WGSS 274 Women, Culture, and Society 3 CATEGORY V: ARTS & HUMANITIES 6 credits Students are required to take one course from each subcategory Subcategory A – Fine Arts 3 credits ARTZ 101 Art Fundamentals 3 ARTZ 105 Visual Language-Drawing 3 ARTZ 106 Visual Language-Drawing 3 ARTZ 108 Visual Language-3-D Foundations 3 ARTZ 131 Ceramics for Non-majors 3 CRWR 240 Intro Creative Writing Workshop 3 FILM 160 Introduction to World Cinema 3 LIT 270 Film & Literature 3 MART 260 Computer Presentation and Animation 3 MUSI 101 Enjoyment of Music 3 MUSI 114 Band: MSUB Symphonic 1 MUSI 131 Jazz Ensemble I: MSUB 1 MUSI 147 Choral Ensemble: University Chorus 1 PHOT 154 Exploring Digital Photography 3 THTR 101 Introduction to Acting I 3 Subcategory B - Humanities 3 credits ARTH 150 Introduction to Art History 3 HONR 111 Perspectives and Understanding 3 LIT 110 Introduction to Literature 3 LIT 213 Montana Literature 3 PHL 110 Introduction to Ethics 3

		Course	Credits	Grade	Semester	Equivalent
7h		A minimum grade of C- or better is require	d in all majo	or coursew	vork	
Chemistry I *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			
СНМҮ	324	Organic Chemistry Laboratory II	1			
СНМҮ	361	Elements of Physical Chemistry Laboratory	3			
CHMY	362	Elements of Physical Chemistry Laboratory	1			
CHMY	401	Advanced Inorganic Chemistry	3			
СНМҮ	402	Advanced Inorganic Chemistry Laboratory	1			
СНМҮ	411	Advanced Organic Chemistry	3			
СНМҮ	412	Advanced Organic Chemistry Laboratory	1			
СНМҮ	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			
Mathematic	s Require	ment				
*STAT	216	Introduction to Statistics and	4			
Choose on	e set:			<u> </u>		
*M		Calculus I and	4			
M	171 172	Calculus II	4			
OR M		Survey of Calculus and	3			
M	161	Math Electives	5			
		Mathematics Total	12	<u> </u>	1	
Physics Req	uirements					
PHSX	220	Physics I	3			
	221	Physics I Lab	1			
PHSX	221	Thysics T Euc				
PHSX PHSX	232	Physics II and Thermo	3			

Physics Total 8

^{*} May satisfy General Education requirements.

	Course			Credits	Grade	Semester	Equivalent
Science and Math Electives (23 c	redits selected w	rith advisor ap	proval)	1			
				•	•	•	
Electives							
BACHELOR OF SCIENCE DEGR	EE IN CHEMIST	TRY					
Categories	Credits	Earned	Remaining				
General Education	31						
Chemistry Requirements	**47						
	**12						
Mathematics Requirements							
	8						
Physics Requirements	8 23						
Mathematics Requirements Physics Requirements Science and Math Electives Electives (variable)							

**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: