

#### ADVISING WORKSHEET BACHELOR OF SCIENCE DEGREE MAJOR IN CHEMISTRY GENERAL BULLETIN 2023-2024

**TRANSFER INSTITUTION(S):** 

Montana State University Billings Advising Center 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

<b>General Education Category</b>	Course #	Credits	Grade	Semester	Equivalent
Category I: Global Academic Skills (9 credits)					
A. Mathematics (3 credits)					
M 171 and 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

M       105       Contemporary Mathematics         M       114       Extended Technical Mathematics         M       121       College Algebra         M       122       College Trigonometry         M       130       Mathematics for Elementary Teachers I         M       140       College Math for Healthcare         M       143       Finite Mathematics         M       161       Survey of Calculus         M       161       Survey of Calculus I         STAT       141       Introduction to Statistical Concepts         STAT       216       Introduction to Statistics         Subcategory B - English       3 cr         WRIT       101       College Writing I         WRIT       121       Introduction to Technical Writing         WRIT       122       Introduction to Business Writing         Subcategory C - Communication & Information Literacy 3 or         BMIS       150       Cyber Security and Electronic Communication         COMX       111       Introduction to Interpersonal Communication         COMX       115       Introduction in Small Groups         HOR       205       Honors Inquiry and Research         LSCI       125       Research	
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M       114       Extended Technical Mathematics         M       121       College Algebra         M       122       College Trigonometry         M       130       Mathematics for Elementary Teachers I         M       140       College Math for Healthcare         M       143       Finite Mathematics         M       143       Finite Mathematics         M       161       Survey of Calculus         M       171       Calculus I         STAT       141       Introduction to Statistical Concepts         STAT       216       Introduction to Statistical Concepts         STAT       216       Introduction to Statistical Concepts         STAT       101       College Writing I         WRIT       121       Introduction to Technical Writing         WRIT       122       Introduction to Business Writing         Subcategory C- Communication & Information Literacy 3 c       BMIS         DMIS       150       Cyber Security and Electronic Communication         COMX       111       Introduction to Interpersonal Communication         COMX       125       Honors Inquiry and Research         LSCI       125       Research in the Information Age <td< th=""><th>dits</th></td<>	dits
M       114       Extended Technical Mathematics         M       121       College Algebra         M       122       College Trigonometry         M       130       Mathematics for Elementary Teachers I         M       140       College Math for Healthcare         M       143       Finite Mathematics         M       143       Finite Mathematics         M       161       Survey of Calculus         M       171       Calculus I         STAT       141       Introduction to Statistical Concepts         STAT       216       Introduction to Statistical Concepts         STAT       216       Introduction to Statistical Concepts         STAT       101       College Writing I         WRIT       121       Introduction to Technical Writing         WRIT       122       Introduction to Business Writing         Subcategory C- Communication & Information Literacy 3 c       BMIS         DMIS       150       Cyber Security and Electronic Communication         COMX       111       Introduction to Interpersonal Communication         COMX       125       Honors Inquiry and Research         LSCI       125       Research in the Information Age <td< th=""><th>3</th></td<>	3
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M       130       Mathematics for Elementary Teachers I         M       140       College Math for Healthcare         M       143       Finite Mathematics         M       161       Survey of Calculus         M       161       Survey of Calculus         M       171       Calculus I         STAT       216       Introduction to Statistical Concepts         STAT       216       Introduction to Statistics         Subcategory B - English       3 cr         WRIT       101       College Writing I         WRIT       121       Introduction to Technical Writing         WRIT       122       Introduction to Business Writing         Subcategory C - Communication & Information Literacy 3 or       BMIS         DMIS       150       Cyber Security and Electronic Communication         COMX       111       Introduction to Public Speaking         COMX       101       Communication in Small Groups         HONR       205       Honors Inquiry and Research         LSCI       125       Research in the Information Age         CATEGORY II: NATURAL SCIENCES       6 cr. lecture & 1 cr         Subcategory A – Life Sciences       3-4 cr         BIOB       101       D	3
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M       143       Finite Mathematics         M       161       Survey of Calculus         M       171       Calculus I         STAT       141       Introduction to Statistical Concepts         STAT       216       Introduction to Statistics         Subcategory B - English       3 cr         WRIT       101       College Writing I         WRIT       121       Introduction to Technical Writing         WRIT       122       Introduction to Business Writing         Subcategory C- Communication & Information Literacy 3 c         BMIS       150       Cyber Security and Electronic Communicat         COMX       111       Introduction to Public Speaking         COMX       115       Introduction to Interpersonal Communicati         COMX       201       Communication in Small Groups         HONR       205       Honors Inquiry and Research         LSCI       125       Research in the Information Age         CATEGORY II: NATURAL SCIENCES         6 cr. lecture & 1 cr.       Students are required to take one course from each subcatego         at least one corresponding lab or Integrated Sciences       3-4 cr         BIOB       101       Discover Biology         BIOB       102	3
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Subcategory B – Physical Sciences 3-4 cr	3
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ACTD 110 Interation ( A )	dits
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	4
CHMY 142 College Chemistry Laboratory I	1
GEO 101 Introduction to Physical Geology	3
GEO 102 Introduction to Physical Geology Laborato	
GPHY 262 Spatial Sciences Technology & Applicatio	
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	2
PHSX 206 College Physics I Lab	3
SCIN 103 Integrated Science II	3 1
SCIN 104 Integrated Science II Lab	

0.1112001	RY III: S	SOCIAL SCIENCES AND HISTORY 6 CREI	DITS
		uired to take one course from each subcategor	у
Subcateg	ory A -	– Social Sciences 3 cred	its
BGEN	105	Introduction to Business	3
COMX	106	Communicating in a Dynamic Workplace	3
ECNS	201	Principles of Microeconomics	3 3 3 3 3 3 3 3 3 3
ECNS	202	Principles of Macroeconomics	3
EDU	105	Education and Democracy	3
HTH	110	Personal Health and Wellness	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	3
SOCI	201	Social Problems	3
Subcateg	ory B -	- History 3 cre	dits
HSTA	101	American History I	3
HSTA	102	American History II	3
HSTR	159	World History to 1500 CE	3
HSTR	160	Modern World History	3
PSCI	230	Introduction to International Relations	3
		CULTURAL DIVERSITY 3 cre	
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
NASX	105	Introduction to Native American Studies	3
NASX	205	Native Americans in Contemporary Society	13
DEITA	001		2
REHA	201	Introduction to Diversity in Counseling	3
RLST	170	The Religious Quest	3 3
RLST SPNS	170 150	The Religious Quest The Hispanic Tradition	3
RLST	170	The Religious Quest	3 3 3 3
RLST SPNS WGSS	170 150 274	The Religious Quest The Hispanic Tradition	3 3
RLST SPNS WGSS CATEGO Students	170 150 274 <b>RY V:</b> .	The Religious Quest The Hispanic Tradition Women, Culture, and Society ARTS & HUMANITIES 6 cre uired to take one course from each subcategor	3 3 edits y
RLST SPNS WGSS CATEGO Students Subcateg	170 150 274 <b>RY V:</b> are requ	The Religious Quest         The Hispanic Tradition         Women, Culture, and Society         ARTS & HUMANITIES       6 cree         uired to take one course from each subcategor         - Fine Arts       3 cree	3 3 edits y edits
RLST SPNS WGSS CATEGO Students Subcateg ARTZ	170 150 274 <b>RY V:</b> A are requ gory A 105	The Religious Quest         The Hispanic Tradition         Women, Culture, and Society         ARTS & HUMANITIES       6 cree         aired to take one course from each subcategor         - Fine Arts       3 cree         Visual Language-Drawing	3 edits y edits 3
RLST SPNS WGSS CATEGO Students Subcateg ARTZ ARTZ	170 150 274 <b>RY V:</b> are requ <b>gory A</b> - 105 106	The Religious Quest The Hispanic Tradition Women, Culture, and Society ARTS & HUMANITIES 6 cree aired to take one course from each subcategor – Fine Arts 3 cree Visual Language-Drawing Visual Language-2-D Foundations	3 edits y edits 3
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RLST SPNS WGSS CATEGO Students ARTZ ARTZ ARTZ ARTZ ARTZ	170 150 274 <b>RY V:</b> are requ <b>gory A</b> - 105 106 108 131	The Religious Quest The Hispanic Tradition Women, Culture, and Society ARTS & HUMANITIES 6 cree irred to take one course from each subcategor – Fine Arts 3 cree Visual Language-Drawing Visual Language-2-D Foundations Visual Language-3-D Foundations Ceramics for Non-majors	3 3 edits y edits 3 3 3 3
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RLST SPNS WGSS CATEGO Students ARTZ ARTZ ARTZ ARTZ ARTZ CRWR FILM LIT MUSI	170 150 274 <b>RY V:</b> are requ <b>gory A</b> 105 106 108 131 240 160 270 101	The Religious Quest The Hispanic Tradition Women, Culture, and Society ARTS & HUMANITIES 6 cree irred to take one course from each subcategor – Fine Arts 3 cree Visual Language-Drawing Visual Language-2-D Foundations Visual Language-3-D Foundations Ceramics for Non-majors Intro Creative Writing Workshop Introduction to World Cinema Film & Literature Enjoyment of Music	3 3 edits y edits 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
RLST SPNS WGSS CATEGO Students ARTZ ARTZ ARTZ ARTZ CRWR FILM LIT MUSI MUSI	170 150 274 <b>RY V:</b> 2 are requ <b>gory A</b> 105 106 108 131 240 160 270 101 114	The Religious Quest The Hispanic Tradition Women, Culture, and Society ARTS & HUMANITIES 6 cree irred to take one course from each subcategor – Fine Arts 3 cree Visual Language-Drawing Visual Language-2-D Foundations Visual Language-3-D Foundations Ceramics for Non-majors Intro Creative Writing Workshop Introduction to World Cinema Film & Literature Enjoyment of Music Band: MSUB Symphonic	3 3 edits y 9 edits 3 3 3 3 3 3 3 1
RLST SPNS WGSS Students Subcateg ARTZ ARTZ ARTZ ARTZ CRWR FILM LIT MUSI MUSI MUSI	170 150 274 <b>RY V:</b> are requ <b>gory A</b> 105 106 108 131 240 160 270 101 114 131	The Religious Quest The Hispanic Tradition Women, Culture, and Society ARTS & HUMANITIES 6 cree irred to take one course from each subcategor – Fine Arts 3 cree Visual Language-Drawing Visual Language-2-D Foundations Visual Language-3-D Foundations Ceramics for Non-majors Intro Creative Writing Workshop Introduction to World Cinema Film & Literature Enjoyment of Music Band: MSUB Symphonic Jazz Ensemble I: MSUB	3 3 edits y edits 3 3 3 3 3 3 3 1 1
RLST SPNS WGSS Students Subcateg ARTZ ARTZ ARTZ ARTZ CRWR FILM LIT MUSI MUSI MUSI MUSI	170 150 274 <b>Ry V:</b> are requ <b>gory A</b> 105 106 108 131 240 160 270 101 114 131 147	The Religious Quest The Hispanic Tradition Women, Culture, and Society ARTS & HUMANITIES 6 cree irred to take one course from each subcategor – Fine Arts 3 cree Visual Language-Drawing Visual Language-2-D Foundations Visual Language-3-D Foundations Ceramics for Non-majors Intro Creative Writing Workshop Introduction to World Cinema Film & Literature Enjoyment of Music Band: MSUB Symphonic Jazz Ensemble I: MSUB Choral Ensemble: University Chorus	3 3 edits y edits 3 3 3 3 3 3 3 3 1 1 1 1
RLST SPNS WGSS Students Subcateg ARTZ ARTZ ARTZ ARTZ CRWR FILM LIT MUSI MUSI MUSI MUSI PHOT	170 150 274 <b>RY V:</b> are requ gory A - 105 106 108 131 240 160 270 101 114 131 147 154	The Religious Quest         The Hispanic Tradition         Women, Culture, and Society         ARTS & HUMANITIES       6 cree         aired to take one course from each subcategor         Fine Arts       3 cree         Visual Language-Drawing         Visual Language-2-D Foundations         Visual Language-3-D Foundations         Ceramics for Non-majors         Intro Creative Writing Workshop         Introduction to World Cinema         Film & Literature         Enjoyment of Music         Band: MSUB Symphonic         Jazz Ensemble I: MSUB         Choral Ensemble: University Chorus         Exploring Digital Photography	3 3 edits y edits 3 3 3 3 3 3 3 3 1 1 1 3
RLST SPNS WGSS Students Subcateg ARTZ ARTZ ARTZ ARTZ CRWR FILM LIT MUSI MUSI MUSI MUSI	170 150 274 <b>Ry V:</b> are requ <b>gory A</b> 105 106 108 131 240 160 270 101 114 131 147	The Religious Quest The Hispanic Tradition Women, Culture, and Society ARTS & HUMANITIES 6 cree irred to take one course from each subcategor – Fine Arts 3 cree Visual Language-Drawing Visual Language-2-D Foundations Visual Language-3-D Foundations Ceramics for Non-majors Intro Creative Writing Workshop Introduction to World Cinema Film & Literature Enjoyment of Music Band: MSUB Symphonic Jazz Ensemble I: MSUB Choral Ensemble: University Chorus	3 3 edits y edits 3 3 3 3 3 3 3 3 1 1 1 1
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RLST SPNS WGSS Students Subcateg ARTZ ARTZ ARTZ ARTZ CRWR FILM LIT MUSI MUSI MUSI MUSI MUSI PHOT THTR Subcateg ARTH	170 150 274 <b>Ry V:</b> are requised <b>requised</b> <b>Ry V:</b> are requised <b>requised</b> <b>requised</b> 105 106 108 131 240 160 270 101 114 131 147 154 101 <b>cory B</b> - 150	The Religious Quest The Hispanic Tradition Women, Culture, and SocietyARTS & HUMANITIES6 creearred to take one course from each subcategor – Fine Arts3 creeVisual Language-Drawing Visual Language-2-D Foundations Visual Language-3-D Foundations Ceramics for Non-majors Intro Creative Writing Workshop Introduction to World Cinema Film & Literature Enjoyment of Music Band: MSUB Symphonic Jazz Ensemble I: MSUB Choral Ensemble: University Chorus Exploring Digital Photography Introduction to TheatreHumanities3 cree Introduction to Art History	3 3 edits y edits 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 1 1 1 3 3 2 8 4 1 5 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
RLST SPNS WGSS Students Subcateg ARTZ ARTZ ARTZ CRWR FILM LIT MUSI MUSI MUSI MUSI MUSI PHOT THTR Subcateg ARTH HONR	170 150 274 <b>Ry V:</b> are requised <b>requised</b> <b>Ry V:</b> are requised <b>requised</b> <b>requised</b> 105 106 108 131 240 160 270 101 114 131 147 154 101 <b>cory B</b> - 150 111	The Religious Quest       The Hispanic Tradition         Women, Culture, and Society         ARTS & HUMANITIES       6 cree         tired to take one course from each subcategor         - Fine Arts       3 cree         Visual Language-Drawing       Visual Language-2-D Foundations         Visual Language-3-D Foundations       Ceramics for Non-majors         Intro Creative Writing Workshop       Introduction to World Cinema         Film & Literature       Enjoyment of Music         Band: MSUB Symphonic       Jazz Ensemble I: MSUB         Choral Ensemble I: MSUB       Choral Ensemble: University Chorus         Exploring Digital Photography       Introduction to Theatre         - Humanities       3 cree         Introduction to Art History       Perspectives and Understanding	3 3 edits y edits 3 3 3 3 3 3 3 3 3 3 3 3 1 1 1 3 3 2 8 4 1 5 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
RLST SPNS WGSS Students Subcateg ARTZ ARTZ ARTZ ARTZ CRWR FILM LIT MUSI MUSI MUSI MUSI MUSI PHOT THTR Subcateg ARTH HONR LIT	170 150 274 <b>RY V:</b> are requ <b>gory A</b> 105 106 108 131 240 160 270 101 114 131 147 154 101 <b>gory B</b> 150 111 110	The Religious Quest         The Hispanic Tradition         Women, Culture, and Society         ARTS & HUMANITIES       6 credited         bired to take one course from each subcategor         - Fine Arts       3 credited         Visual Language-Drawing       Visual Language-2-D Foundations         Visual Language-3-D Foundations       Ceramics for Non-majors         Intro Creative Writing Workshop       Introduction to World Cinema         Film & Literature       Enjoyment of Music         Band: MSUB Symphonic       Jazz Ensemble I: MSUB         Choral Ensemble I: MSUB       Choral Ensemble: University Chorus         Exploring Digital Photography       Introduction to Theatre         - Humanities       3 cred         Introduction to Art History       Perspectives and Understanding         Introduction to Literature       1	3 3 edits y edits 3 3 3 3 3 3 3 3 3 3 3 3 1 1 1 3 3 2 8 4 1 5 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
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RLST SPNS WGSS Students J Students J ARTZ ARTZ ARTZ ARTZ CRWR FILM LIT MUSI MUSI MUSI MUSI MUSI PHOT THTR Subcateg ARTH HONR LIT LIT PHL	170 150 274 <b>RY V:</b> . are requised <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>requised</b> <b>r</b>	The Religious Quest The Hispanic Tradition Women, Culture, and SocietyARTS & HUMANITIES6 creearred to take one course from each subcategor – Fine Arts3 creeVisual Language-Drawing Visual Language-2-D Foundations Visual Language-3-D Foundations Ceramics for Non-majors Intro Creative Writing Workshop Introduction to World Cinema Film & Literature Enjoyment of Music Band: MSUB Symphonic Jazz Ensemble I: MSUB Choral Ensemble: University Chorus Exploring Digital Photography Introduction to TheatreHumanities3 creeIntroduction to Art History Perspectives and Understanding Introduction to Ethics3 cree	3 3 edits y edits 3 3 3 3 3 3 3 3 3 3 3 3 1 1 1 3 3 2 8 4 1 5 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
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		Course	Credits	Grade	Semester	Equivalent
		A minimum grade of C- or better is require	ed in all maje	or coursew	vork	
hemistry I	Requireme	ents			I	
*CHMY	141	College Chemistry I	4			
And *CHMY	142	College Chemistry Laboratory I	1			
CHMY	143	College Chemistry II	4			
And	144		1			
CHMY	144	College Chemistry Laboratory II	1			
CHMY And	311	Analytical Chemistry – Quantitative Analysis	3			
CHMY	312	Analytical Chemistry Laboratory – Quantitative Analysis	1			
CHMY	321	Organic Chemistry I	3			
And			-			
CHMY	322	Organic Chemistry Laboratory I	1			
CHMY	323	Organic Chemistry II	3			
And						
CHMY	324	Organic Chemistry Laboratory II	1			
CHMY	371	Physical Chemistry – Quantum Chemistry and	3			
And		Spectroscopy				
CHMY	372	Physical Chemistry Laboratory I	1			
CHMY	373	Physical Chem - Kinetics & Thermodynamics	3			
And						
CHMY	374	Physical Chemistry Laboratory II	1			
CHMY	401	Advanced Inorganic Chemistry	3			
And						
CHMY	402	Advanced Inorganic Chemistry Laboratory	1			
CHMY	411	Advanced Organic Chemistry	3			
And	410		1			
CHMY	412	Advanced Organic Chemistry Laboratory	1			
CHMY	421	Advanced Instrument Analysis	3			
And CHMY	422	Advanced Instrument Analysis Laboratory	2			
CHMY	422	Undergraduate Research	2			
CHMY	498	Internship / Cooperative Education	2			
CHMY	499	Senior Thesis/Capstone	1			
BCH	380	Biochemistry	3			
And BCH	381	Biochemistry Laboratory	1			
BCH	480	Advanced Biochemistry I	3			
And	400	Auvanceu Diochennisu y I	5			
BCH	481	Advanced Biochemistry I Laboratory	1			
2011	101	Chemistry Total	56	I		

#### **Mathematics Requirements**

mathemath	es nequi e	litentis			
*STAT	216	Introduction to Statistics and	4		
*M	171	Calculus I	4		
М	172	Calculus II	4		
		Mathematics Total	12		

#### Mathematics Total

#### Physics Requirements

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

\* May satisfy General Education requirements.

Course	Credits	Grade	Semester	Equivalent

Science and Math Electives (16 credits selected with advisor approval)

#### Electives

### **BACHELOR OF SCIENCE DEGREE IN CHEMISTRY**

Categories	Credits	Earned	Remaining
General Education	31		
Chemistry Requirements	56		
Mathematics Requirements	12		
Physics Requirements	8		
Science and Math Electives	16		
Electives (variable)	V		
Total	120		

\*May satisfy General Education requirements.

The following General Education courses also satisfy requirements in the major: CHMY 141/142, M 171 and STAT 216.

Certain courses in this program have prerequisites; students should check the course descriptions for required pre-requisites.

# 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: