

ADVISING WORKSHEET

BACHELOR OF SCIENCE DEGREE MAJOR IN CHEMISTRY General Bulletin 2015-2017

TRANSFER INSTITUTION(S):			

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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 and M 171 are major requirements					
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

ibcatego FAT FAT ibcatego	ory A - 105 114 121 122	uired to take one course from each subcate Mathematics 3 of Contemporary Mathematics Extended Technical Mathematics	credits	HSTA HSTA HSTR	101 102	American History I American History II	
ΓΑΤ ΓΑΤ ıbcatego	105 114 121 122	Contemporary Mathematics			102		
ГАТ ГАТ ıbcatego	114 121 122		2		101	Western Civilization I	
ΓΑΤ ΓΑΤ ıbcateg o	121 122	Extended Technical Mathematics	3	HSTR	101	Western Civilization I Western Civilization II	
ΓΑΤ ΓΑΤ ιbcateg o	122		3	HSTR	102	Honors Western Civilization I	
ΓΑΤ ΓΑΤ ιbcateg o		College Algebra	3		103		
CAT CAT abcatego		College Trigonometry	3	HSTR	230	Honors Western Civilization II	
FAT FAT ibcatego	131	Mathematics for Elementary Teachers II		PSCI	230	Introduction to International Relations	•
AT AT bcatego	143	Finite Mathematics	4				
AT AT bcatego	161	Survey of Calculus	3	CATEGO	ORY IV:	CULTURAL DIVERSITY	3 cred
AT bcatego	171	Calculus I	4	A&SC/WG	ss 274	Women, Culture, and Society	
bcatego	141	Introduction to Statistical Concepts	3	ANTY	220	Culture and Society	
bcatego	216	Introduction to Statistics	4	ARTH	160	Global Visual Culture	
			credits	COMX	212	Introduction to Intercultural Communi	ication
	101	College Writing I	3	GPHY	121	Human Geography	ication
	121	Introduction to Technical Writing	3	HTH	270	Global Health Issues	
	122	Introduction to Business Writing	3				
			3	LIT	230	World Literature Survey	
	201	College Writing II		MUSI	207	World Music	
	220	Business & Professional Writing	3	NASX	105	Introduction to Native American Stud	
	221	Intermediate Technical Writing	3	NASX	205	Native Americans in Contemporary So	ociety
bcatego	ory C-	Communication & Information Literacy	3 credits	PHL	271	Indian Philosophies and Religions	
1IS	150	Computer Literacy	3	PHL	272	Chinese Philosophies and Religions	
MX	111	Introduction to Public Speaking	3	REHA	201	Introduction to Diversity in Counselin	g
MX	115	Introduction to Interpersonal Communica	ation 3	RLST	170	The Religious Quest	
CI	125	Research in the Information Age	3	SPNS	150	The Hispanic Tradition	
		NATURAL SCIENCES 6 cr. lecture & 1		CATEGO	ORY V:	ARTS & HUMANITIES	6 cred
		uired to take one course from each subcate	gory and			uired to take one course from each subc	
		esponding lab <u>or</u> Integrated Sciences		Subcate	gory A	– Fine Arts	3 cred
bcatego	ory A -	- Life Sciences 3-4 o	credits	ARTZ	101	Art Fundamentals	
OB _	101	Discover Biology	3	ARTZ	105	Visual Language-Drawing	
ЭB	102	Discover Biology Lab	1	ARTZ	131	Ceramics for Non-majors	
	160	Principles of Living Systems	3	CRWR	240	Intro Creative Writing Workshop	
	161	Principles of Living Systems Lab	1	FILM	160	Introduction to World Cinema	
			-				
			eredits	LIT	270	Film & Literature	
	110	Introduction to Astronomy	3	MART	260	Computer Presentation and Animation	1
	111	Introduction to Astronomy Lab	1	MUSI	101	Enjoyment of Music	
IMY	121	Introduction to General Chemistry	3	MUSI	114	Band: MSUB Symphonic	
ΙΜΥ	122	Introduction to General Chemistry Lab	1	MUSI	131	Jazz Ensemble I: MSUB	
IMY	141	College Chemistry I	3	MUSI	147	Choral Ensemble: University Chorus	
IMY	142	College Chemistry Laboratory I	1	PHOT	154	Exploring Digital Photography	
Ю	101	Introduction to Physical Geology	3	THTR	101	Introduction to Theatre	
	102	Introduction to Physical Geology Labora	-	THTR	120		
						Introduction to Acting I	2
	111	Introduction to Physical Geography	3			- Humanities	3 cred
	112	Introduction to Physical Geography Lab	1	ARTH	150	Introduction to Art History	
	103	Our Physical World	3	HONR	111	Perspectives and Understanding	
	104	Our Physical World Lab	1	LIT	110	Introduction to Literature	
SX	205	College Physics I	3	LIT	240	The Bible as Literature	
	206	College Physics I Lab	1	PHL	110	Introduction to Ethics	
	105	Fundamentals of Physical Science	3	PHL	111	Philosophies of Life	
	105	Fundamentals of Physical Science Lab	1	FIIL	111	i mosopines of Life	
on egrated			1	Total			
			1, 3, 1	Total			
			credits				
		uired to take one course from each subcate					
			eredits				
	217	Physical Anthropology & Archeology	3				
EN	105	Introduction to Business	3				
MX	106	Communicating in a Dynamic Workplace	e 3				
	201	Principles of Microeconomics	3				
	202	Principles of Macroeconomics	3				
	105	Education and Democracy	3				
	141	Geography of World Regions	3				
	110	Personal Health and Wellness	3				
CI	210	Introduction to American Government	3				
	220	Introduction to Comparative Governmen					
	100	Introduction to Psychology	3				
	231	Human Relations	3				
VX	101						
	101	Introduction to Sociology	3 3	l			

		Course	Credits	Grade Semester	Equivalent
Cl	D	A minimum grade of C- or better is require	ed in all majo	or coursework	
Chemistry *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		
CHMY	312	Analytical Chemistry Laboratory – Quantitative	1		
		Analysis			
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	371	Physical Chemistry – Quantum Chemistry and Spectroscopy	3		
CHMY	372	Physical Chemistry Laboratory I	1		
CHMY	373	Physical Chemistry – Kinetics and Thermodynamics	3		
CHMY	374	Physical Chemistry Laboratory II	1		
ВСН	380	Biochemistry	3		
ВСН	381	Biochemistry Lab	1		
CHMY	401	Advanced Inorganic Chemistry	3		
CHMY	402	Advanced Inorganic Chemistry Laboratory	1		
CHMY	421	Advanced Instrument Analysis	3		
CHMY	422	Advanced Instrumental Analysis Laboratory	2		
ВСН	480	Advanced Biochemistry I	3		
ВСН	481	Advanced Biochemistry I Lab	1		
CHMY	490	Undergraduate Research	2		
CHMY	494	Seminar / Workshop	1		
CHMY	498	Internship / Cooperative Education	1		
Chemistry	Electives	(Choose 9 credits from the following)	I I	I	
СНМҮ	411	Advanced Organic Chemistry	3		
СНМҮ	412	Advanced Organic Chemistry Laboratory	1		
CHMY	490	Undergraduate Research	1-5		
СНМҮ	491	Special topics	3		
СНМҮ	498	Internship / Cooperative Education	1-5		
		Chemistry Total	58		
Mathemat	ics Reavi	rement			
*M	171	Calculus I	4		
M	172	Calculus II	4		
*STAT	216	Introduction to Statistics	4		

Mathematics Total

12

^{*} May satisfy General Education requirements.

		Course	Credits	Grade	Semester	Equivalent
Physics I	Requiremen	ts				
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			
~ •	· · · · · ·	1				
Science I	dectives (5 c	eredits selected with advisor approval)				
			u u	I	· · · · · · · · · · · · · · · · · · ·	
Electives						

Categories	Credits	Earned	Remaining
General Education	31		
Chemistry Requirements	**55		
Mathematics Requirements	**9		
Physics Requirements	8		
Science Electives	5		
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: