

ADVISING WORKSHEET

BACHELOR OF SCIENCE DEGREE MAJOR IN CHEMISTRY General Bulletin 2017-2018

TRANSFEI	R INSTITUTIO	ON(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:					
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GENERAL EDUCATION REQUIREMENTS

CATECO	apy I. (GLOBAL ACADEMIC SKILLS	9 credits	CATECO	ODV III.	SOCIAL SCIENCES AND HISTORY 6 C	CREDITS
		uired to take one course from each subc				uired to take one course from each subcat	
			3 credits		-		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	ce 3
M	122	College Trigonometry	3	ECNS	201	Principles of Microeconomics	3
M	130	Mathematics for Elementary Teachers		ECNS	202	Principles of Macroeconomics	3
M	143	Finite Mathematics	4	EDU	105	Education and Democracy	3
M	161	Survey of Calculus	3	GPHY	141	Geography of World Regions	3
M	171	Calculus I	4	HTH	110	Personal Health and Wellness	3
STAT	141		3	PSCI	210	Introduction to American Government	3
		Introduction to Statistical Concepts					
STAT	216	Introduction to Statistics	4	PSCI	220	Introduction to Comparative Government	
				PSYX	100	Introduction to Psychology	3
Subcate	gory B ·		3 credits	PSYX	231	Human Relations	3
WRIT	101	College Writing I	3	SOCI	101	Introduction to Sociology	3
WRIT	121	Introduction to Technical Writing	3	SOCI	201	Social Problems	3
WRIT	122	Introduction to Business Writing	3				
WRIT	201	College Writing II	3	Subcate	gory R	- History 3	credits
WRIT	220	Business & Professional Writing	3	HSTA	101	American History I	3
			3				
WRIT	221	Intermediate Technical Writing	3	HSTA	102	American History II	3
				HSTR	101	Western Civilization I	3
Subcate	egory C-	Communication & Information Literac	y 3 credits	HSTR	102	Western Civilization II	3
BMIS	150	Computer Literacy	3	HSTR	103	Honors Western Civilization I	3
COMX	111	Introduction to Public Speaking	3	HSTR	104	Honors Western Civilization II	3
COMX	115	Introduction to Interpersonal Commun		PSCI	230	Introduction to International Relations	3
LSCI	125	Research in the Information Age	3			Total of the state	3
Loci	123	Research in the information Age	3	<u> </u>	TT 7	C P 2	111
C. mag	oner II	Ni myn y Cormyona (1 4 0	1 11				credits
		NATURAL SCIENCES 6 cr. lecture &		A&SC/WG	ss 274	Women, Culture, and Society	3
Students	are req	uired to take one course from each subc	ategory and	ANTY	220	Culture and Society	3
		esponding lab <u>or</u> Integrated Sciences		ARTH	160	Global Visual Culture	3
			4 credits	COMX	212	Introduction to Intercultural Communication	-
BIOB	101	Discover Biology	3	GPHY	121		3
		2,	1			Human Geography	
BIOB	102	Discover Biology Lab		HTH	270	Global Health Issues	3
BIOB	121	Fundamentals of Biology for Allied H		LIT	230	World Literature Survey	3
BIOB	122	Fund of Biology: Evolution, Ecology,		MUSI	207	World Music	3
		Biodiversity	3	NASX	105	Introduction to Native American Studies	s 3
BIOB	123	Fund of Biology: The Nature of Nutrit		NASX	205	Native Americans in Contemporary Soc	ciety 3
BIOB	160	Principles of Living Systems	3	PHL	271	Indian Philosophies and Religions	3
BIOB	161	Principles of Living Systems Lab	1	PHL	272	Chinese Philosophies and Religions	3
ыов	101	Timespies of Elving Bystems Eab		REHA	201	Introduction to Diversity in Counseling	
Cubaata	D	Dhygical Coloness	4 anadita				
		•	4 credits	RLST	170	The Religious Quest	3
ASTR	110	Introduction to Astronomy	3	SPNS	150	The Hispanic Tradition	3
ASTR	111	Introduction to Astronomy Lab	1				
CHMY	121	Introduction to General Chemistry	3	CATEGO	ORY V:	ARTS & HUMANITIES 6	credits
CHMY	122	Introduction to General Chemistry Lab) 1				
CHMY	141	College Chemistry I	3			uired to take one course from each subcat	
CHMY	142	College Chemistry Laboratory I	1		-		credits
GEO	101	Introduction to Physical Geology	3	ARTZ	101	Art Fundamentals	3
				ARTZ	105	Visual Language-Drawing	3
GEO	102	Introduction to Physical Geology Labo		ARTZ	131	Ceramics for Non-majors	3
GPHY	111	Introduction to Physical Geography	3	CRWR	240	Intro Creative Writing Workshop	3
GPHY	112	Introduction to Physical Geography La		FILM	160	Introduction to World Cinema	3
PHSX	103	Our Physical World	3	LIT	270		3
PHSX	104	Our Physical World Lab	1			Film & Literature	
PHSX	205	College Physics I	3	MART	260	Computer Presentation and Animation	3
PHSX			1	MUSI	101	Enjoyment of Music	3
	206	College Physics I Lab		MUSI	114	Band: MSUB Symphonic	1
PHSX	105	Fundamentals of Physical Science	3	MUSI	131	Jazz Ensemble I: MSUB	1
PHSX	106	Fundamentals of Physical Science Lab	1	MUSI	147	Choral Ensemble: University Chorus	1
				PHOT	154	Exploring Digital Photography	3
Integrat	ted Scie	nces			101		
Integrat			3, 1. 3. 1	THTR	101	Introduction to Theatre	3
		nces 3, 104 Integrated Sciences	3, 1, 3, 1	THTR	101 120	Introduction to Theatre Introduction to Acting I	3
			3, 1, 3, 1	THTR	120	Introduction to Acting I	3
			3, 1, 3, 1	THTR Subcate	120 egory B	Introduction to Acting I - Humanities 3	3 credits
			3, 1, 3, 1	THTR Subcate ARTH	120	Introduction to Acting I - Humanities 3 Introduction to Art History	3
			3, 1, 3, 1	THTR Subcate	120 egory B	Introduction to Acting I - Humanities 3	3 credits
			3, 1, 3, 1	THTR Subcate ARTH HONR	120 egory B 150 111	Introduction to Acting I - Humanities 3 Introduction to Art History Perspectives and Understanding	3 credits 3 3
			3, 1, 3, 1	THTR Subcate ARTH HONR LIT	120 egory B 150 111 110	Introduction to Acting I - Humanities 3 Introduction to Art History Perspectives and Understanding Introduction to Literature	3 credits 3 3 3
			3, 1, 3, 1	THTR Subcate ARTH HONR LIT LIT	120 egory B 150 111 110 240	Introduction to Acting I - Humanities 3 Introduction to Art History Perspectives and Understanding Introduction to Literature The Bible as Literature	3
			3, 1, 3, 1	THTR Subcate ARTH HONR LIT LIT PHL	120 egory B 150 111 110 240 110	Introduction to Acting I - Humanities Introduction to Art History Perspectives and Understanding Introduction to Literature The Bible as Literature Introduction to Ethics	3 3 3 3 3 3 3
			3, 1, 3, 1	THTR Subcate ARTH HONR LIT LIT PHL PHL	120 egory B 150 111 110 240 110 111	Introduction to Acting I - Humanities Introduction to Art History Perspectives and Understanding Introduction to Literature The Bible as Literature Introduction to Ethics Philosophies of Life	3 3 3 3 3 3 3 3
			3, 1, 3, 1	THTR Subcate ARTH HONR LIT LIT PHL	120 egory B 150 111 110 240 110	Introduction to Acting I - Humanities Introduction to Art History Perspectives and Understanding Introduction to Literature The Bible as Literature Introduction to Ethics	3 3 3 3 3 3 3

		Course	Credits	Grade	Semester	Equivalent
Chemistry	Doguinos	A minimum grade of C- or better is requirements	red 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			
СНМҮ	311	Analytical Chemistry – Quantitative Analysis	3			
СНМҮ	312	Analytical Chemistry Laboratory – Quantitative 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	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)		<u> </u>		
CHMY	411	Advanced Organic Chemistry	3			
CHMY	412	Advanced Organic Chemistry Laboratory	1			
CHMY	490	Undergraduate Research	1-5			
CHMY	491	Special topics	3			
CHMY	498	Internship / Cooperative Education	1-5			
		Chemistry Total	58	<u>ı </u>		
Mathemat				1	ı	
*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	t s				
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			
a .	· · · · · ·	1				
Science E	Electives (5 c	credits selected with advisor approval)				
					<u> </u>	
Electives			1			

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: