ADVISING WORKSHEET
BACHELOR OF SCIENCE IN CHEMISTRY
TEACHING CERTIFICATE OPTION
General Bulletin 2007-2009

TRANSFER INSTITUTION(S):
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Name _____

Student ID # _____

ACADEMIC FOUNDATIONS REQUIREMENTS – SEE BACK PAGE FOR SPECIFIC COURSES

Academic Foundations Category	Course #	Credits	Grade	Semester	Equivalent
Category I: Global Academic Skills (12 credits) A. Mathematics (3 credits) *MATH 112 – Chemistry Major Requirement*	MATH 112				
B. English (6 credits)	ENGL 150				
C. 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) *BIOL 178/188 and PHYS 201 Chemistry Major Requirements*	BIOL 178				
	BIOL 188				
	PHYS 201				
Category III: Social Sciences (6 credits) Courses must be from separate prefixes *EDF 100 – Education Core Requirement*	EDF 100				
Category IV: History & Cultural Diversity (6 credits) A. History (3 credits)	HIST 204 or 205				
B. Cultural Diversity (3 credits)	NAMS 181 or 211				
Category V: Arts & Humanities (6 credits) A. Arts (3 credits)					
B. Humanities (3 credits)					

A minimum grade of "C" required in all Academic Foundations courses.

Students should consult with their advisors to determine if specific courses are necessary in order to satisfy the Academic Foundations requirements within this program.

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

Reviewed:

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ACADEMIC FOUNDATIONS REQUIREMENTS

CATEGORY I: GLOBAL ACADEMIC SKILLS			12 credits
Subcategory A - Mathematics			**3 credits**
MATH	106	College Algebra	3
MATH	107	Precalculus	5
MATH	***112***	***Calculus I***	***4***
MATH	121	Finite Mathematics	4
MATH	122	College Mathematics for Technology	3
MATH	141	Contemporary Mathematics	3
MATH	202	Fundamentals of Mathematics II	3
STAT	141	Introduction to Statistics	3
STAT	241	Statistical Methods	4
Subcategory B - English			**6 credits**
ENGL	***150***	***College Composition***	***3***
ENGL	201	Business Communication	3
ENGL	226	Research Writing	3
ENGL	140	Business Writing	3
ENGL	145	Technical Communication	3
Subcategory C - Information Literacy			**3 credits**
COMT	130	Introduction to Public Speaking	3
LS	125	Research in the Information Age	3
MIS	150	Information Access and Organization	3

CATEGORY II: NATURAL SCIENCES		6 cr. lecture & 1 cr. lab	
Students are required to take one course from each subcategory and at least one corresponding lab or SCIN 101, 102, 103 & 104			
Subcategory A – Life Sciences			
BIOL	101	Survey of Biology	3
BIOL	115	Survey of Biology Lab	1
BIOL	***178***	***Principles of Biology***	***3***
BIOL	***188***	***Principles of Biology Lab***	***1***
Subcategory B – Physical Sciences			
CHEM	104	Fund of General Chemistry	3
CHEM	105	Fund of General Chem Lab	1
CHEM	115	General Chemistry I	3
CHEM	118	General Chemistry I Lab	1
EASC	100	Lithosphere and Hydrosphere	3
EASC	101	Lithosphere and Hydrosphere Lab	1
GEOG	100	Physical Geography Lab	1
GEOG	101	Physical Geography	3
PHYS	101	Earth, Air, Fire and Water	3
PHYS	102	Earth, Air, Fire and Water Lab	1
PHYS	110	College Physics I	3
PHYS	111	College Physics I Lab	1
PHYS	***201***	***Introduction to Astronomy***	***3***
PHYS	203	Introduction to Astronomy Lab	1
PSSC	101	Physical World Around Us	3
PSSC	102	Physical World Around Us Lab	1
Subcategories A and B – Integrated Sciences			
SCIN 101, 102, 103 & 104		Integrated Sciences	3, ½ , 3, ½

CATEGORY III: SOCIAL SCIENCES			6 credits
Two courses from separate prefixes			
BUS	101	Introduction to Business	3
COMT	109	Human Relations	3
COMT	110	Interpersonal Communication	3
ECON	200	Principles of Microeconomics	3
ECON	201	Principles of Macroeconomics	3
EDF	***100***	***Education and Democracy***	***3***
GEOG	102	World Geography	3
HHP	101	Health Sciences	3
POLS	101/200	Intro to Gov't/Intro to Comparative Gov't	3
POLS	212	United States Government	3
PSYC	101	General Psychology	3
PSYC	271	Human Relations	3
SOCL	101	Introduction to Sociology	3
SOCL	212	Physical Anthropology & Archeology	3
SOCL	221	Social Problems	3

CATEGORY IV: HISTORY & CULTURAL DIVERSITY			6 credits
Subcategory A - History			**3 credits**
HIST	***204***	***United States History to 1877***	***3***
OR			
HIST	***205***	***United States History Since 1877***	***3***
Subcategory B - Cultural Diversity			**3 credits**
NAMS	***181***	***Introduction to Native American Studies***	***3***
OR			
NAMS	***211***	***Social Issues of the Native American***	***3***

CATEGORY V: ARTS & HUMANITIES			6 credits
Subcategory A - Arts			**3 credits**
ART	110	Art Studio Essentials for the Non-Art Major	3
ART	142	Introduction to Pottery	3
ART	161	Introduction to Drawing	3
COMT	150	Introduction to Theatre and Performance	3
COMT	155	Global Cinema	3
COMT	250	Introduction to Acting	3
ENGL	204	Fundamentals of Creative Writing	3
ENGL	280	Fiction into Film	3
MUSC	100	Music Appreciation	3
MUSC	150	Musics of the World	3
DSGN	248	Computer Presentation and Animation	3
Subcategory B - Humanities			**3 credits**
ART	132	Art History Survey	3
ENGL	160	Reading and Responding to Literature	3
ENGL/PHIL	240	The Bible as Literature	3
HON	181	The Ancient and Medieval Worlds	3
HON	182	The Renaissance and Modern Worlds	3
HON	281	Humanistic Thought of the U.S. to 1877	3
HON	282	Humanistic Thought of the U.S. since 1877	3
PHIL	115	Ethics	3
PHIL	117	Philosophies of Life	3

		Course	Credits	Grade	Semester	Equivalent
Professional Education Core						
*#EDF	100	Education and Democracy	3			
#EDF	225	Human Development in Education	3			
#EDF	250	Educational Psychology	3			
#SPED	260	Introduction to Teaching Exceptional Learners	3			
#HHP	201	Core Concepts in Health	3			
RD	310	Reading and Writing Across the Curriculum	3			
EDCI	310	Curriculum & Instruction for Middle School, High School & K-12 Teachers	3			
EDCI	314	Teaching Science in the Middle and Secondary School	3			
EDF	450	Philosophical, Legal & Ethical Issues in Education	3			
EDCI	486	Student Teaching Secondary	9			

#Required for Admission to the Teacher Education Program

Chemistry Requirements						
*CHEM	115	General Chemistry I	3			
*CHEM	118	General Chemistry I Lab	1			
CHEM	116	General Chemistry II	3			
CHEM	119	General Chemistry II Lab	1			
CHEM	320	Quantitative Chemical Analysis	3			
CHEM	325	Quantitative Chemical Analysis Lab	1			
CHEM	330	Organic Chemistry I	3			
CHEM	331	Organic Chemistry I Lab	1			
CHEM	334	Organic Chemistry II	3			
CHEM	335	Organic Chemistry II Lab	1			
CHEM	340	Physical Chemistry I	3			
CHEM	341	Physical Chemistry I Lab	1			
CHEM	344	Physical Chemistry II	3			
BIOL/ CHEM	361	Biochemistry	3			
BIOL/ CHEM	371	Biochemistry Lab	1			
CHEM	420	Instrumental Analysis	3			
BIOL/ CHEM	463	Advanced Biochemistry	3			
CHEM	490	Internship	1			

Mathematics Requirement						
*MATH	112	Calculus I	4			
MATH	113	Calculus II	4			

Physics Requirement

*PHYS	201	Introduction to Astronomy	3			
PHYS	210	University Physics I	3			
PHYS	211	University Physics I Lab	1			
PHYS	220	University Physics II	3			
PHYS	221	University Physics II Lab	1			
PHYS	230	Modern Physics	3			
Physics Electives (Upper Division)			4			

Unrestricted Electives

*This course may meet Academic Foundations requirements. Students should consult with an academic advisor before registering for courses in order to minimize the number of credits required for graduation.

BACHELOR OF SCIENCE DEGREE IN CHEMISTRY – TEACHING CERTIFICATION OPTION

Categories	**Credits**	**Earned**
Academic Foundations	38	_____
Professional Education Core	33-36	_____
Chemistry Major	57-64	_____
Unrestricted Electives (variable)	V	_____
Total	128	_____

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: