

MILLERSVILLE UNIVERSITY

Student Name: _____ Student I.D.# _____

DEGREE:	BSE	MAJOR REQUIREMENTS FOR A BSE DEGREE IN
MAJOR:	CHEM	CHEMISTRY
OPTION:		Total credit hours required: 126.0 minimum

REQUIREMENTS AND POLICIES FOR THE BSE CHEMISTRY MAJOR

A. Policies for Admission to the Major

1. New students (freshmen and transfers) must be admitted to the Chemistry major by the Office of Admissions upon admission to the University.
2. Admission into the Chemistry major from other departments is upon approval of the chairperson of the Chemistry Department.
3. Non-degree and continuing education students must be admitted to the Chemistry major by the Office of Admissions.

B. Policies for Retention in the Major

1. University requirements for retention.
2. The student is required to have a 2.00 grade point average in the major courses by the end of the sophomore year. If not, it is recommended that courses be repeated to achieve a 2.00 average in the major or that there be a change of major.
3. Chemistry majors are required to have a 2.00 grade or better in Chemistry courses required for the major at the 100 and 200 level before proceeding to a course for which it is a prerequisite. (Currently, these courses include: CHEM 111, 112, 231, 232, 251, and 265).

C. Policies for Completion of the Major

1. Completion of all University curricular requirements.

D. Admission to Advanced Professional Studies and Certification (Education Majors)

All students enrolled in teacher preparation programs must be admitted to Advanced Professional Studies and meet Pennsylvania State requirements and university requirements prior to being enrolled in their initial Advanced Professional Studies course. Students must meet additional Pennsylvania State requirements in order to be certified. A listing of Advanced Professional Studies courses and requirements is available in each department office, the Early Field Experience office, and on the Early Field Experience website.

Note to the student: *This form is provided as a guide. It is your responsibility to consult regularly with your adviser to be aware of changes and curriculum details which are not incorporated on this form.*

MAJOR SEQUENCE AND DEGREE REQUIREMENTS

Major: **BSE CHEMISTRY**

Option:

Major Field Requirements: **40.0 credits**

Other Requirements: **55.0 credits**

When applicable, up to six of the **REQUIRED RELATED** courses may be credited toward the Liberal Arts Core subject to normal distribution rules.

Course No.	Short Title	C.H.	Grade	Q.P.	Course No.	Short Title	C.H.	Grade	Q.P.
REQUIRED CHEMISTRY COURSES (41.0 credits)					REQUIRED RELATED (22.0 credits)				
CHEM 111	Intro Chemistry I	4.0	_____	_____	Mathematics (12.0 credits)				
CHEM 112	Intro Chemistry II	4.0	_____	_____	MATH 161	Calculus I	4.0	_____	_____
CHEM 188	Freshman Seminar	1.0	_____	_____	MATH 211	Calculus II	4.0	_____	_____
CHEM 231	Organic Chem I	4.0	_____	_____	MATH 311	Calculus III	4.0	_____	_____
CHEM 232	Organic Chem II	4.0	_____	_____	Physics (10.0 credits)				
CHEM 251	Inorganic Chem I	3.0	_____	_____	PHYS 231	Physics I with Calc	5.0	_____	_____
CHEM 265	Quant Analysis	4.0	_____	_____	PHYS 232	Physics II with Calc	5.0	_____	_____
CHEM 326	Biochemistry I	4.0	_____	_____	Biology				
CHEM 341	Physical Chem I	4.0	_____	_____	Demonstrate competency in Biology 100*				
CHEM 342	Physical Chem II	4.0	_____	_____	General Electives (as necessary)				
CHEM 375	Environmental Chem	4.0	_____	_____	_____	_____	_____	_____	_____
CHEM 487	Seminar in Chem	0.5	_____	_____	_____	_____	_____	_____	_____
CHEM 488	Seminar in Chem	0.5	_____	_____	_____	_____	_____	_____	_____
PROFESSIONAL EDUCATION (33.0 credits)					General Electives (as necessary)				
EDFN 211	Found. Modern Ed.	3.0	_____	_____	_____	_____	_____	_____	_____
EDFN 241	Psyc. Found. Teach.	3.0	_____	_____	_____	_____	_____	_____	_____
EDSE 321	Issues in Sec. Educ.	3.0	_____	_____	_____	_____	_____	_____	_____
EDFN 330	Instr. Techn. Design	3.0	_____	_____	_____	_____	_____	_____	_____
EDSE 435	Teaching Science	3.0	_____	_____	_____	_____	_____	_____	_____
EDSE 340	Content Area Literacy	3.0	_____	_____	_____	_____	_____	_____	_____
EDSE 471	Differentiating Instruction	3.0	_____	_____	_____	_____	_____	_____	_____
SPED 346	Sec. Students w/Disabilities	3.0	_____	_____	_____	_____	_____	_____	_____
EDSC 461	Student Teaching	9.0	_____	_____	_____	_____	_____	_____	_____
					<p>*Competency may be demonstrated by one of the following</p> <ol style="list-style-type: none"> 1) a course grade of "A" or "B" in AP Biology 2) a score of 3 or better in the national AP exam 3) a successful score on the CLEP exam 4) a passing grade for General Biology (BIOL 100) <p>General Education Perspectives requirement not required for BSE majors declared as of Fall 2006.</p>				