

**BACHELOR OF SECONDARY EDUCATION IN CHEMISTRY
RECOMMENDED PROGRAM**

FIRST SEMESTER				SECOND SEMESTER			
CHEM	111	Intro Chem I	4.0	CHEM	112	Intro Chem II	4.0
CHEM	188	Freshman Seminar	1.0	CHEM	251	Inorganic Chem I	3.0
ENGL	110	English Composition	3.0	COMM	100	Fund. of Speech	3.0
MATH	161	Calculus I	4.0	_____	_____	Humanities Course #1	3.0
WELL	175	Wellness Course	<u>3.0</u>	MATH	211	Calculus II	<u>4.0</u>
		<i>TOTAL S.H.</i>	15.0			<i>TOTAL S.H.</i>	17.0
THIRD SEMESTER				FOURTH SEMESTER			
CHEM	231	Organic I	4.0	CHEM	232	Organic II	4.0
_____	_____	Social Sciences Course #1	3.0	CHEM	265	Quant. Analysis (or G1) *	4.0
MATH	311	Calculus III	4.0	PHYS	232	Physics II w/ Calculus	5.0
PHYS	231	Physics I w/ Calculus	5.0	EDFN	211	Found Modern Ed	3.0
_____	_____	Humanities Course #2	<u>3.0</u>	EDFN	241	Psych Fnd Tchg	<u>3.0</u>
		<i>TOTAL S.H.</i>	19.0			<i>TOTAL S.H.</i>	19.0
FIFTH SEMESTER				SIXTH SEMESTER			
CHEM	341	Physical Chem I	4.0	CHEM	342	Physical Chem II	4.0
CHEM	375	Environ Chem (D)	4.0	CHEM	488	Chemistry Seminar	0.5
CHEM	487	Chemistry Seminar	0.5	ENGL	3XX	Advanced Writing ***	3.0
EDSE	340	Cntnt. Area Litr. Diver. Class	3.0	_____	_____	Humanities Course #3	3.0
SPED	346	Sec. Stdnts w Disab. Incl. Sttgs	3.0	_____	_____	Social Sciences Course #3	<u>3.0</u>
_____	_____	Social Sciences Course #2	<u>3.0</u>			<i>TOTAL S.H.</i>	13.5
		<i>TOTAL S.H.</i>	17.5				
SEVENTH SEMESTER				EIGHTH SEMESTER			
CHEM	326	Biochemistry I **	4.0	EDSE	461	Student Teaching	9.0
EDFN	321	Issues in Secondary Ed	3.0	EDSE	471	Different Instr. in Class	<u>3.0</u>
EDFN	330	Instructional Technology	3.0			<i>TOTAL S.H.</i>	12.0
EDFN	435	Teaching Science	<u>3.0</u>				
		<i>TOTAL S.H.</i>	13.0				

COMMENTS, NOTES OR RECOMMENDATIONS:

- * It is recommended that CHEM 265 (or a G1 course) be taken during the summer session prior to CHEM 341.
- ** It is highly recommended that you take CHEM 326 because the Praxis exam contains questions from the material covered in biochemistry.
- *** ENGL 312 (Technical Writing) is highly recommended.

1. Connections & Exploration (C&E) courses #1 and #4 can be satisfied with any approved GenEd course.
2. Cultural Diversity & Community (D) course may be satisfied with approved courses from the GenEd requirements (including Perspectives), the major, the minor, the required related area, or general electives.

Note 1: The BSE-Chemistry curriculum as a whole satisfies the Perspectives (P) requirement in the general education curriculum. This means that BSE-Chemistry majors do not need to take a perspectives course to satisfy this requirement.

Note 2: The Pennsylvania Dept. of Education requires 6 credits of English; 3 in writing and 3 in literature. Therefore, each BSE student MUST take 3 credits of writing (ENGL 110 meets this requirement) AND 3 credits of literature in the English Dept. A "G1" English literature course fulfills this requirement. This is a prerequisite requirement and MUST be completed before you can do Junior Block and Student Teaching.