

**MILLERSVILLE UNIVERSITY**

Student Name:

Student I.D. #:

DEGREE: BS

**MAJOR REQUIREMENTS FOR A BS**

**MAJOR SEQUENCE AND DEGREE REQUIREMENTS - REVISED**

Course      No.      Short Title

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\_\_\_\_\_

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\_\_\_\_\_

**BACHELOR OF SCIENCE IN CHEMISTRY  
ENVIRONMENTAL CHEMISTRY OPTION  
RECOMMENDED PROGRAM**

<b>FIRST SEMESTER</b>				<b>SECOND SEMESTER</b>			
CHEM	111	Intro Chem I	4.0	CHEM	112	Intro Chem II	4.0
CHEM	188	Freshman Seminar	1.0	CHEM	251	Inorganic	3.0
ENGL	110	English Composition	3.0	MATH	211	Calculus II	4.0
MATH	161	Calculus I	4.0	WELL	175	Wellness Course	<u>3.0</u>
_____	_____	Humanities Course #1	<u>3.0</u>			<i>TOTAL S.H.</i>	14.0
		<i>TOTAL S.H.</i>	15.0				
<b>THIRD SEMESTER</b>				<b>FOURTH SEMESTER</b>			
CHEM	231	Organic I	4.0	CHEM	232	Organic II	4.0
COMM	100	Communication	3.0	CHEM	265	Quantitative Analysis	4.0
PHYS	231	Physics I	5.0	PHYS	232	Physics II	<u>5.0</u>
MATH	311	Calculus III	<u>4.0</u>			<i>TOTAL S.H.</i>	13.0
		<i>TOTAL S.H.</i>	16.0				
<b>FIFTH SEMESTER</b>				<b>SIXTH SEMESTER</b>			
CHEM	341	Physical Chem I	4.0	CHEM	342	Physical Chem II	4.0
CHEM	375	Environmental I	4.0	CHEM	476	Environmental II	4.0
ENGL	3XX	Advanced Writing	3.0	_____	_____	Required Related **	3.0-4.0
_____	_____	Humanities Course #2	3.0			Intro to Research	1.0
_____	_____	Social Sciences Course #1	<u>3.0</u>			<i>TOTAL S.H.</i>	15.0-16.0
		<i>TOTAL S.H.</i>	17.0				
<b>SEVENTH SEMESTER</b>				<b>EIGHTH SEMESTER</b>			
CHEM		Chemistry Elective*	4.0	CHEM	465	Analytical Chemistry	4.0
CHEM	487	Chemistry Seminar	0.5	CHEM	488	Chemistry Seminar	0.5
CHEM	_____	Chemistry Elective*	1.0	_____	_____	C&E Course #4	3.0
_____	_____	Humanities Course #3	3.0	_____	_____	Required Related **	3.0-4.0
_____	_____	Social Science Course #3	3.0	_____	_____	Perspectives Course	<u>3.0</u>
_____	_____	C&E Course #1	<u>3.0</u>			<i>TOTAL S.H.</i>	13.5-14.5
		<i>TOTAL S.H.</i>	14.5				

**COMMENTS, NOTES OR RECOMMENDATIONS:**

\*Biochemistry I (CHEM 326) and Advanced Lab II (CHEM 392) must be completed to gain ACS certification.

\*\*Cooperative Educ. courses: CHEM 300 and CHEM 400 are recommended for students interested in Industrial Environmental Chemistry.

\*\*Select 2 courses (6.0 credits) from the Environmental Electives block.

\*\*\*Students seeking ACS certification must take a minimum 2.0 credits of CHEM 498 under Chemistry Electives.