

PROGRAM PLAN SHEET:
BACHELOR OF SCIENCE Concentration in Environmental Science
 University of Wisconsin-Stout 2008-2009

CONCENTRATION REQUIREMENTS			GENERAL AND OTHER REQUIREMENTS		
I. Environmental Science Course Requirements	CR	YR	A. Communication Skills (8 cr.)	CR	YR
APSC-101 Applied Science Professional I	1		ENGL-101 Freshman English Composition, OR ENGL-111 Freshman English Honors I	3	
APSC-311 Issues for Scientific Professionals, P: PHIL-235	3		ENGL-102 Freshman English Reading, P: ENGL-101 or ENGL-111 OR ENGL-112 Freshman English Honors II, P: ENGL-101 or ENGL-111.	3	
APSC-349 Co-op OR APSC-398 Field Experience	1-6		SPCOM-100 Fundamentals of Speech	2	
APSC-401 Applied Science Profession II	1				
ENGL-415 Technical Writing, P: ENGL-102, ENGL-112 or ENGL-113	3				
			B. Analytical Reasoning (7-8 cr.)		
BIO-111 Science, Society and the Environment	4		MATH-153 Calculus I OR MATH-156 Calculus and Analytical Geometry I Course admission based on Math Placement Level 4.	4-5	
BIO-135 Organismal Biology	4		STAT-320 Statistical Methods, OR STAT-330 Probability and Statistics Engineering and the Sciences	3	
BIO-136 College Molecular Cell Biology I	5				
BIO-350 Ecology	3				
BIO-444 Problem Solving in the Environment	4				
CHEM-136 College Chemistry II, P: CHEM 135, or MATH-120 and CHEM-125	5		C. Health and Physical Education (2 cr.)	2	
CHEM-201 Organic Chemistry I, P: CHEM-135, or CHEM-125	4				
CHEM-331 Quantitative Analysis, P: CHEM-136 or CHEM-201	3		D. Humanities and the Arts (9 cr.)		
CHEM- 335 Instrumental Methods and Analysis, P: CHEM-115, CHEM-125 or CHEM-135; and CHEM-136 or CHEM-201	3		PHIL-235 General Ethics	3	
CHEM-353 Environmental Chemistry	3		From the approved list, choose 6 credits from two or more areas.	6	
CHEM-452 Environmental Regulations Management	3				
PHYS-281 University Physics I, OR PHYS-241 College Physics I	5		E. Social and Behavioral Sciences (9 cr.)		
PHYS-282 University Physics II OR PHYS-242 College Physics II	5		GEOG-251 Introduction to Geography and Geographic Information	4	
GEOG-351 Intermediate Geographic Information Systems	4		From the approved list, choose 5-6 credits from two or more areas.	5-6	
SUST-315 Sustainable Design and Engineering	3				
II. Environmental Science Course Electives			F. Natural Sciences (with lab) (5 cr.)		
Any 200 level or higher Biology, Chemistry or Physics course OR MATH-154 Calculus II OR MATH-157 Calculus and Analytical Geometry II OR ECON-350 Environmental and Natural Resource Economics, P: ECON-201 or ECON-210	11		CHEM-135 College Chemistry, P: MATH-120	5	
Total Concentration Requirements	78		G. Technology (2 cr.)	2	
			From the approved list, choose 2 credits from two or more areas.		
			Total General and Other Requirements	42-44	
			Elective credits as needed to fulfill 120-credit graduation requirement.		
			TOTAL CREDITS FOR GRADUATION	120-122	

Ethnic and diversity requirements are to be met through appropriate selection of course work leading to the degree.
 Foreign Language requirements are encouraged for all students in the program.
 Field Studies and/or Cooperative Education experiences are recommended for all students in the program.
 P: Prerequisite
 Approved General Education course list can be found here: <http://www.uwstout.edu/provost/geescorslist.pdf>

Bachelor of Science in Applied Science: Environmental Science Concentration

Total Program Credits: 121-127

Freshman Year

<i>1st Semester</i>			<i>2nd Semester</i>		
ENG-101/111	Freshman English Composition/Honors I	3	CHEM-135	College Chemistry I	5
BIO -135	Organismal Biology	4	ENG-102/112	Freshman English Reading/Honors II	3
APSC-101	Applied Science Profession I	1	SPCOM-100	Fundamentals of Speech	2
MATH-153/156	Calculus I	4 or 5	BIO-111	Science, Society and the Environment	4
	<i>Humanities/Soc. Science Elec.</i>	<u>3</u>		<i>Gen. Ed. Health Elective</i>	0 to 2
	<i>Total</i>	15 to 16		<i>Gen. Ed. Technology elective</i>	<u>2</u>
				<i>Total</i>	16 to 18

Sophomore Year

<i>1st Semester</i>			<i>2nd Semester</i>		
BIO -136	College Molecular Cell Biology I	5	PHIL-235	General Ethics	3
CHEM-136	College Chemistry II	5	STAT-320/330	Statistical Methods/Probability	
GEOG-251	Introduction to Geography and Geographic Information	4		and Statistics	3
	<i>Gen. Ed. Health Elective</i>	0 to 2	CHEM-201	Organic Chemistry I	4
	<i>Total</i>	14 to 16	PHYS-281 or 241	University or College Physics I	<u>5</u>
				<i>Total</i>	15

Junior Year

<i>1st Semester</i>			<i>2nd Semester</i>		
CHEM-331	Quantitative Analysis	3	GEOG-351	Intermediate Geographic Information Systems	4
APSC-311	Issues for Science Professionals	3	CHEM-335	Instrumental Methods and Analysis	3
PHYS-282 or 242	University or College Physics II	5	BIO-350	Ecology	3
	<i>Humanities/Soc. Science Elec.</i>	3		<i>Concentration Elective</i>	4
	<i>Humanities/Soc. Science Elec.</i>	<u>3</u>		<i>Total</i>	<u>14</u>
	<i>Total</i>	17			

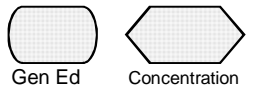
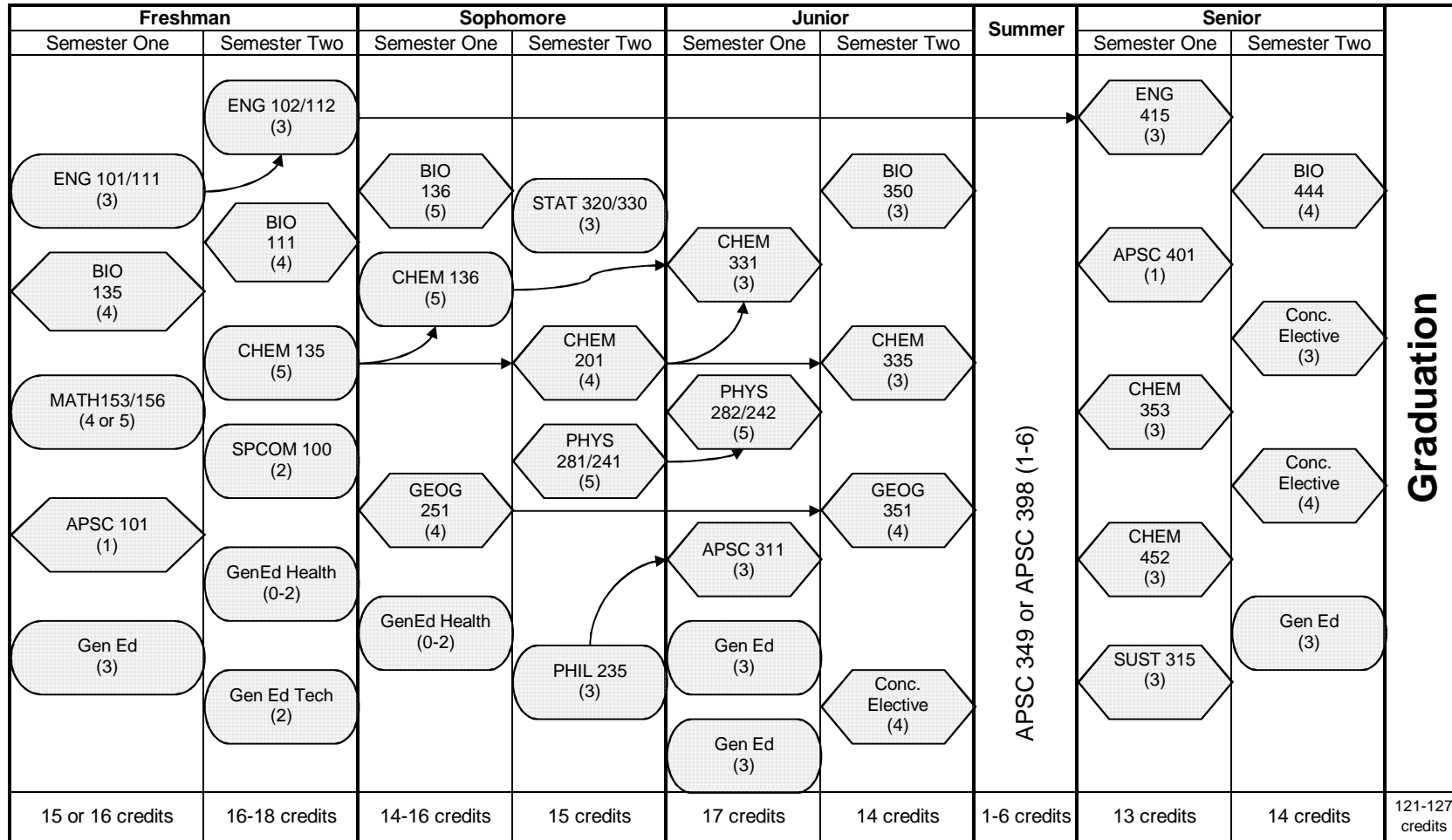
Summer

APSC 349 or APSC 398 1 to 6

Senior Year

<i>1st Semester</i>			<i>2nd Semester</i>		
APSC-401	Applied Science Profession II	1	BIO-444	Problem Solving in the Environment	4
ENG-415	Technical Writing	3		<i>Concentration Elective</i>	3
SUST-315	Sustainable Design and Engineering	3		<i>Concentration Elective</i>	4
CHEM-452	Environmental Regulations Management	3		<i>Humanities/Soc. Science Elec.</i>	3
CHEM-353	Environmental Chemistry	3		<i>Total</i>	<u>14</u>
	<i>Total</i>	13			

Applied Science - Environmental Science Concentration Flow Chart



* CHEM 135 has a prerequisite of MATH 120 or above
 ** Professional Schools and Graduate Schools may require CALC II