

PROGRAM PLAN SHEET:
BACHELOR OF SCIENCE Concentration "No Concentration"
 University of Wisconsin-Stout 2008-2009

CONCENTRATION REQUIREMENTS			GENERAL AND OTHER REQUIREMENTS		
I. No Concentration 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-135 Organismal Biology	4		MATH-153 Calculus I OR MATH-156 Calculus and Analytical Geometry I Course admission based on Math Placement Level 4.	4-5	
BIO-136 College Molecular Cell Biology I	5				
CHEM-136 College Chemistry II, P: CHEM 135, or MATH-120 and CHEM-125	5		STAT-320 Statistical Methods, OR STAT-330 Probability and Statistics Engineering and the Sciences	3	
CHEM-201 Organic Chemistry I, P: CHEM-135, or CHEM-125	4				
CHEM-331 Quantitative Analysis, P: CHEM-136 or CHEM-201	3		C. Health and Physical Education (2 cr.)	2	
CHEM-335 Instrumental Methods and Analysis, P: CHEM-115, CHEM-125 or CHEM-135; and CHEM-136 or CHEM-201	3				
			D. Humanities and the Arts (9 cr.)		
PHYS-281 University Physics I OR PHYS-241 College Physics I	5		PHIL-235 General Ethics	3	
PHYS-282 University Physics II OR PHYS-242 College Physics II	5		From the approved list, choose 6 credits from two or more areas.	6	
II. Elective Courses			E. Social and Behavioral Sciences (9 cr.)		
Any 200 level or higher Biotechnology-related Course as approved by advisor, possibly including MATH-154 Calculus II OR MATH-157 Calculus and Analytical Geometry II	14		From the approved list, choose 9 credits from three or more areas.	9	
			F. Natural Sciences (with lab) (5 cr.)		
Total Concentration Requirements	57		CHEM-135 College Chemistry I, P: MATH-120	5	
At least one minor that is not Biology, Chemistry or Physics	18-35		G. Technology (2 cr.)	2	
			Total General and Other Requirements	42-43	
			Elective credits as needed to fulfill 120-credit graduation requirement.		
			TOTAL CREDITS FOR GRADUATION	120	

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: "No Concentration" Option

One minor that is not Biology, Chemistry or Physics is required
 This plan assumes a 21 credit minor; actual credits will vary depending on chosen minor

Total Program Credits: 120-126

Freshman Year

1 st Semester			2 nd Semester		
ENG-101/111	Freshman English Composition/Honors I	3	ENG-102/112	Freshman English Reading/Honors II	3
BIO -135	Organismal Biology	4	CHEM-135	College Chemistry I	5
APSC-101	Applied Science Profession I	1	SPCOM-100	Fundamentals of Speech	2
MATH-153/156	Calculus I	4 or 5		<i>Gen. Ed. Health Elective</i>	0 to 2
	<i>Humanities/Soc. Science Elec.</i>	3		<i>Humanities/Soc. Science Elec.</i>	3
	<u>Total</u>	15 or 16		<u>Total</u>	13 to 15

Sophomore Year

1 st Semester			2 nd Semester		
BIO-136	College Molecular Cell Biology I	5	PHIL-235	General Ethics	3
CHEM-136	College Chemistry II	5	CHEM-201	Organic Chemistry I	4
	<i>Gen. Ed. Health Elective</i>	0 to 2	PHYS-281 or 241	University or College Physics I	5
	<i>Humanities/Soc. Science Elec.</i>	3		<i>Minor Elective</i>	3
	<u>Total</u>	13 to 15		<u>Total</u>	15

Junior Year

1 st Semester			2 nd Semester		
PHYS-282 or 242	University or College Physics II	5	CHEM-335	Instrumental Analysis and Analysis	3
CHEM-331	Quantitative Analysis	3	STAT-320 or 330	Statistical Methods or Probability and Statistics	3
APSC-311	Issues for Science Professionals	3		<i>Concentration Elective</i>	3
	<i>Minor Elective</i>	3		<i>Minor Elective</i>	3
	<i>Gen. Ed. Technology elective</i>	2		<i>Minor Elective</i>	3
	<u>Total</u>	16		<u>Total</u>	15

Summer

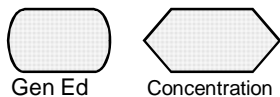
APSC 349 or APSC 398 1 to 6

Senior Year

1 st Semester			2 nd Semester		
APSC-401	Applied Science Profession II	1		<i>Concentration Elective</i>	3
ENG-415	Technical Writing	3		<i>Concentration Elective</i>	4
	<i>Concentration Elective</i>	4		<i>Minor Elective</i>	3
	<i>Minor Elective</i>	3		<i>Minor Elective</i>	3
	<i>Humanities/Soc. Science Elec.</i>	3		<i>Humanities/Soc. Science Elec.</i>	3
	<u>Total</u>	14		<u>Total</u>	16

Applied Science - No Concentration Flow Chart

Freshman		Sophomore		Junior		Summer	Senior		Graduation
Semester One	Semester Two	Semester One	Semester Two	Semester One	Semester Two		Semester One	Semester Two	
	ENG 102/112 (3)						ENG 415 (3)		
ENG 101/111 (3)		CHEM 136 (5)		CHEM 331 (3)				Conc. Elective (3)	
	CHEM 135* (5)		CHEM 201 (4)		CHEM 335 (3)		APSC 401 (1)		Conc. Elective (4)
BIO 135 (4)				PHYS 282/242 (5)		STAT 320/330 (3)		Conc. Elective (4)	
MATH153/156 (4 or 5)	SPCOM 100 (2)		PHYS 281/241 (5)		APSC 311 (3)		Conc. Elective (4)		Minor Elective (3)
		BIO 136 (5)			Conc. Elective (3)		Minor Elective (3)		Minor Elective (3)
APSC 101 (1)	Gen Ed (3)	GenEd Health (0-2)	PHIL 235 (3)		Minor Elective (3)		Minor Elective (3)		Minor Elective (3)
			Minor Elective (3)		Gen Ed Tech (2)		Gen Ed (3)		Gen Ed (3)
	GenEd Health (0-2)	Gen Ed (3)							
15 or 16 credits	13-15 credits	13-15 credits	15 credits	16 credits	15 credits	1-6 credits	14 credits	16 credits	120-126 credits



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