

BIO SCI MAJOR WORKSHEET FOR FLEXIBLE OPTION (9/30/2018)



Name: _____

Date: _____

COURSE	CR	>300	OTHER SCIENCE REQUIREMENTS	CR
150 Foundations of Bio I (4 cr, Lc/Lab)			CHEMISTRY	
152 Foundations of Bio II (4 cr, Lc/Lab)			102 General Chemistry (5 cr)	
			104 General Chemistry & Qualitative Analysis (5 cr)	
GATEWAY COURSES				
325 Genetics (4 cr, Lc/Dis)			And either:	
And either:			341 Intro Survey of Organic Chem (3 cr)	
310 Ecology (4 cr, Lc/Lab)			342 Intro Organic Chem Lab (2 cr)	
Or:			Or:	
315 Cell Biology (3 cr), <i>and</i>			343 Organic Chemistry (3 cr)	
316 Laboratory in Genetics & Cell Biology (2 cr)			344 Organic Chemistry Lab (2 cr)	
			345 Organic Chemistry (3 cr)	
CAPSTONE/SENIOR RESEARCH				
611, 670, 671, 672, CES 471 (Practicum) 695, 697, 698, 699 (Independent Study) Honors 686, 687, 689, or equivalent			PHYSICS (Choose one course set)	
			120 General Physics I (4 cr)	
			121 General Physics Lab I (1 cr) OR 123 General Physics Lab II (1 cr)	
			122 General Physics II (4 cr)	
LAB COURSES (Choose at least 1)			Or:	
202 Anatomy & Physiology I (4 cr)			209 Physics I (4 cr)	
203 Anatomy & Physiology II (4 cr) May be taken after 202 or 315. Only counts as 1 cr toward major when taken with 202.			210 Physics II (4 cr)	
358 Birds of Wisconsin (2 cr)			214 Lab Physics I (1 cr)	
372 Animal Physiology & Neurobiology Laboratory (1 cr)			Or:	
383 General Microbiology (4 cr)			219 Physics I, Studio Format (5 cr)	
402 Immunological Techniques (3 cr)			220 Physics II, Studio Format (5 cr)	
407 Plant Systematics and Evolution (3 cr)				
451 Field Methods in Conservation (3 cr)			RECOMMENDED MATH	
501 Plant & Aquatic Ecophysiology Laboratory (3 cr)			For a complete list of Math options, see the reverse side of this sheet.	
537 Industrial Microbiology and Biochemistry Laboratory (2 cr)			Choose at least one of the following:	
539 Laboratory Techniques in Molecular Biology (4 cr)			211 Survey in Calculus and Analytic Geometry (4 cr)	
543 Scanning Electron Microscopy Laboratory (2 cr)			213 Calculus with Life Science Applications (4 cr)	
544 Transmission Electron Microscopy Laboratory (3 cr)			221 Honors Calculus (5 cr)	
580 Experimental Microbiology (4 cr)			231 Calculus and Analytical Geometry (4 cr)	
ADDITIONAL BIO SCI COURSES				
All other Bio Sci coursework above 300 count as electives.			And choose at least one of the following:	
			MathStats 215 Elementary Statistical Analysis (3 cr)	
			222 Honors Calculus II (5 cr)	
			232 Calculus and Analytical Geometry (4 cr)	
CROSS-LISTED COURSES			Bio Sci 465 Biostatistics (3 cr)	
CES 471 Practicum Natural Resource Management (4 cr)				
Chem 501 Introduction to Biochemistry (3 cr)				
TOTAL CREDITS NEEDED IN MAJOR	≥ 34	≥ 26		

Guidelines for calculating Bio Sci major credits:

- 1) Make sure you calculate Bio Sci credits; both Major credits and >300 level credits. Independent study, UROP and internships do not count as lab courses.
- 2) Bio Sci 203 can be taken with Bio Sci 315 (Cell Bio) as a prereq, but neither it nor 202 carry credit as a >300 level course. Bio Sci 202 does not carry credit toward the Cell & Mol Bio Option of the Bio Sci degree.
- 3) Total L&S credits ≥ 300 must be ≥ 36 . Students should regularly see their L&S advisor to make sure they know and are making progress on all of the L&S requirements for their degree.
- 4) Students must have a GPA of 2.5 in all Bio Sci credits attempted (including transfer work) to graduate.
- 5) Bio Sci Major (Standard and CMB Option) requirements for Math are the same as the College's, copied below from the 2018-2019 catalog:
All candidates for the Bachelor of Science degree must complete Math 211, 213, 221, 226, 227, 228, or 231 and one additional course at the 200 level or above chosen from courses in mathematics, Philos 212 (Modern Deductive Logic), or Letters and Science statistics courses. For a list of approved statistics courses, see the College of Letters and Science website: uwm.edu/letters-science/advising/degree-requirements/major-approved-statistics-courses.
**Note that Bio Sci 465, Biostatistics is included on the list.

Tip: When students contact you for an advising appointment, suggest that they see their L&S advisor and check PAWS first. This can make your job easier, as both show the student what they need to complete their degree in Biological Sciences.