

BIO SCI MAJOR WORKSHEET FOR ECOL, EVOL, & BEHAVIOR 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				
310 Ecology (4 cr, Lc/Lab)			And either:	
325 Genetics (4 cr, Lc/Dis)			341 Intro Survey of Organic Chem (3 cr)	
465 Biostatistics (3 cr)			342 Intro Organic Chem Lab (2 cr)	
			Or:	
CAPSTONE/SENIOR RESEARCH (Choose at least 1)				
611, 670, CES 471 (Practicum)			343 Organic Chemistry (3 cr)	
695, 699			344 Organic Chemistry Lab (2 cr)	
Honors 686, 687, 689			345 Organic Chemistry (3 cr)	
			PHYSICS (Choose one course set)	
LAB COURSES (Choose at least 1)				
358 Birds of Wisconsin (2 cr)			120 General Physics I (4 cr)	
383 General Microbiology (4 cr)			121 General Physics Lab I (1 cr) OR 123 General Physics Lab II (1 cr)	
407 Plant Systematics and Evolution (3 cr)			122 General Physics II (4 cr)	
451 Field Methods in Conservation (3 cr)			Or:	
501 Plant & Aquatic Ecophysiology Laboratory (3 cr)			209 Physics I (4 cr)	
502 Intro Programming & Modeling in Ecology & Evolution (3 cr)			210 Physics II (4 cr)	
			214 Lab Physics I (1 cr)	
539 Laboratory Techniques in Molecular Biology (4 cr)			Or:	
			219 Physics I, Studio Format (5 cr)	
ADDITIONAL BIO SCI COURSES				
			220 Physics II, Studio Format (5 cr)	
406 Marine Biology (3 cr)				
440 Ecology & Evolution of Amphibians & Reptiles (3 cr)			RECOMMENDED MATH	
458 Community Ecology (3 cr)			For a complete list of Math options, see the reverse side of this sheet.	
469 Genomic Data Analysis (2 cr)				
480 Ecological Genetics (3 cr)			Choose at least one of the following:	
500 Plant Physiology (3 cr)			211 Survey in Calculus and Analytic Geometry (4 cr)	
505 Conservation Biology (3 cr)				
507 Environmental Microbiology (3 cr)			213 Calculus with Life Science Applications (4 cr)	
511 Ichthyology (3 cr)			221 Honors Calculus (5 cr)	
512 Limnology (3 cr)				
532 Behavioral Ecology (3 cr)			231 Calculus and Analytical Geometry (4 cr)	
540 Microbial Diversity & Physiology (3 cr)				
562 Topics in Field Biology (1-2 cr)			And choose at least one of the following:	
573 Cellular Evolution (3 cr)			MathStats 215 Elementary Statistical Analysis (3 cr)	
575 Evolutionary Biology (3 cr)			222 Honors Calculus II (5 cr)	
			232 Calculus and Analytical Geometry (4 cr)	
TOTAL CREDITS NEEDED IN MAJOR	≥ 34	≥ 26	Bio Sci 465 Biostatistics (3 cr)	

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.