BIO SCI MAJOR WORKSHEET FOR STANDARD OPTION (3/30/2017)

UNIVERSITY of WISCONSIN UWMILWAUKEE

Name: **Date:**

COURSE	CR	>300
150 Foundations of Bio I (4 cr, Lc/Lab)		
152 Foundations of Bio II (4 cr, Lc/Lab)		
GATEWAY COURSES		
325 Genetics (4 cr, Lc/Dis)		
And either:		
310 Ecology (4 cr, Lc/Lab)		
Or:		
315 Cell Biology (3 cr), *and*		
316 Laboratory in Genetics & Cell Biology (2 cr)		
CAPSTONE/SENIOR RESEARCH		
611, 670, 671, 672, CES 490 (Senior Seminar) 695, 697, 698, 699 (Independent Study) Honors 686, 687, 689, or equivalent		
LAB COURSES (Choose at least 1)		
202 Anatomy & Physiology 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.		
358 Birds of Wisconsin (2 cr)		
372 Animal Physiology & Neurobiology Laboratory (1 cr)		
383 General Microbiology (4 cr)		
402 Immunological Techniques (3 cr)		
407 Plant Systematics and Evolution (3 cr)		
501 Plant & Aquatic Ecophysiology Laboratory (3 cr)		
537 Industrial Microbiology and Biochemistry Laboratory (2 cr)		
539 Laboratory Techniques in Molecular Biology (4 cr)		
543 Scanning Electron Microscopy Laboratory (2 cr)		
544 Transmission Electron Microscopy Laboratory (3 cr)		
580 Experimental Microbiology (4 cr)		
ADDITIONAL BIO SCI COURSES		
All other Bio Sci coursework above 400 count as electives.		
CROSS-LISTED COURSES		
CES 471 Practicum in Natural Resource Management		
CES 490 Senior Seminar: Conservation and Environmental Sciences		
Chem 501 Introduction to Biochemistry (3 cr)		
Psych 254 Physiological Psychology (3 cr)		
Psych 654 Advanced Physiological Psychology (4 cr)		
TOTAL CREDITS NEEDED IN MAJOR	**34**	**26**

OTHER SCIENCE REQUIREMENTS	CR
CHEMISTRY	
102 General Chemistry (5 cr)	
104 General Chemistry & Qualitative Analysis (5 cr)	
And either:	
341 Intro Survey of Organic Chem (3 cr)	
342 Intro Organic Chem Lab (2 cr)	
Or:	
343 Organic Chemistry (3 cr)	
344 Organic Chemistry Lab (2 cr)	
345 Organic Chemistry (3 cr)	
PHYSICS (Choose one course set)	
120 General Physics I (4 cr)	
121 General Physics Lab I (1 cr)	
122 General Physics II (4 cr)	
Or:	
209 Physics I (4 cr)	
210 Physics II (4 cr)	
214 Lab Physics I (1 cr)	
Or:	
219 Physics I, Studio Format (5 cr)	
220 Physics II, Studio Format (5 cr)	
RECOMMENDED MATH For a complete list of Math options, see the reverse side of this sheet.	
Choose at least one of the following:	
211 Survey in Calculus and Analytic Geometry (4 cr)	
213 Calculus with Life Science Applications (4 cr)	
221 Honors Calculus (5 cr)	
231 Calculus and Analytical Geometry (4 cr)	
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)	
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 2016-2017 catalog:
   All candidates for the Bachelor of Science degree must complete Math 211, 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.