



COLLEGE OF LETTERS AND SCIENCES Major Planning Guide
Biological Sciences MAJOR, Marine Biology/Freshwater Ecology EMPHASIS, Bachelor of Science

Not an official document. Refer to Advising Report for full requirements.
Sample Advising Reports available on-line <http://www.uww.edu/registrar/ars/index.html>

Major Planning Guides are sample programs which illustrate the type of curriculum a student will take to complete the degree in 4 years.
All students must complete a minimum of 120 credits including

- 1) at least 32 units of general education, including specific Gened courses, as well as approved math and science, physical education and elective courses
- 2) requirements for the BA or BS Degree,
- 3) requirements for the major and for the minor if required.

* ACT/SAT scores determine which Math and English course is appropriate for you. Refer to your AR for this information and then adjust this schedule accordingly.
The Planning Guide begins with the most common placement for this major.

**The Bachelor of Science requires two lab sciences and 5 credits of advanced math or 3 of math and 3 of computer science. This Planning sheet uses BIOL 141 and CHEM 104 for the lab science requirement, and Math 152 for the math requirement. (The BA option is also available. See advisor for information.)

Courses in **bold** typeface indicate specific courses that must be completed for the major. Other courses such as Gened Courses or major/minor electives can be selected from a number of course choices.

Satisfaction of this emphasis requires two semesters of study at Deakin University in Australia.

@ Requires Math 141 as co-req, or completed, or waived.

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Freshman Year	
English 101* Freshman English—3 units	Math 152* Elementary Functions – 5 units
Biology 141 Biology I @ – 5 units	Biology 142 Biology II – 5 units
Chem 102 Intro Chem I # – 5 units	Chem 104 Intro Chem II – 5 units
GENED 130 Individual and Society—3 units	PEGNRL 192 Personal Health & Fitness—1 unit
Intrauniversity 104 New Student Seminar—1 unit	
Semester 1: 17 units	Semester 2: 16 units
Sophomore Year	
Biology 251 Intro to Genetics – 4 units	Bio 253 Intro to Cell Biology – 3 units
Biology 257 Intro to Ecology – 3 units	Bio 303 Planning and Presenting Bio Research – 4 credits
Biology 258 Field Experience – 2 units	Biology 390 Colloquium – 0.5 unit
Chemistry 251 Organic Chem I - 3 units	Chemistry electives (above 251) - 4 units
Chemistry 261 Organic Chem I Lab - 2 units	English 102* Freshman English—3 units
GenEd 110 World of the Arts—3 units	COMM 110 – 3 units
Semester 1: 17 units	Semester 2: 17.5 units
Junior Year	
Biology 457 General Ecology – 4 units	Biology 446 Organic Evolution – 3 units
Biology 370 Aquatic Biology – 3 units	Biology 400 Colloquium – 0.5 unit
Bio elective 300[†] OR Experiential – 3-4 units	GENED 390 World of Ideas – 3 units
Geography 323 Water Resources – 3 units	Diversity/Gen Ed elective—3 units
GENED120 Historical Perspectives or 140 Global Perspectives—3 units	General Ed Elective – 3 units
	Gen Ed Elective—2-3 units
Semester 1: 16-17 units	Semester 2—15.5 units
Senior Year – Deakin University	
Select additional units of Biology numbered above 300, including the required Marine Biology and Water Ecology courses, to bring total in the major to 54 units.	Select additional units of Biology numbered above 300, including the required Marine Biology and Water Ecology courses, to bring total in the major to 54 units.
Other science or non-science electives	Other science or non-science electives
Semester 1: 14-16 units	Semester 2: 14-16 units

Departmental website: www.uww.edu/cls/departments/biology/index.html