

John Carroll University Department of Biology

BS Biology Sample Study Plan 2023–2024 Bulletin; <https://jcubulletin.coursedog.com/programs/BL.BS>

First Year

Fall Semester	Credits	Major	Core	Minor/ Other	Spring Semester	Credits	Major	Core	Minor/ Other
BL1500 Principles of Biology I	3	X		X	BL1600 Principles of Biology II	3	X		X
BL1505 Principles of Biology I Lab	1	X		X	BL1605 Principles of Biology II Lab	1	X		X
CH1410 General Chemistry I	4	X			CH1420 General Chemistry II	4	X		
CH1430 General Chemistry Lab I	1	X			CH1440 General Chemistry II Lab	1	X		
EN1250 Seminar on Academic Writing	3		X		COM1251 Speech Communication	3		X	
CORE	3		X		CORE	3		X	
Total Credit Hours	15				Total Credit Hours	15			

Second Year

Fall Semester	Credits	Major	Core	Minor/ Other	Spring Semester	Credits	Major	Core	Minor/ Other
BL1700 Principles of Biology III	3	X		X	BL2130 Genetics (or BL elective)	4	X		
BL1705 Principles of Biology III Lab	1	X		X	CH2220 Organic Chemistry II	3	X		
CH2210 Organic Chemistry I	3	X			CH2240 Organic Chemistry II Lab	1	X		
CH2230 Organic Chemistry I Lab	1	X			DATA2280 Statistics-Biological Science	3	X	X	
MT1350 Calculus & Analytic Geometry I or DATA 2500 Intermediate Statistics with SPSS	4	X	X		CORE	3	X		
CORE	3		X						
Total Credit Hours	16				Total Credit Hours	15–17			

Third Year

Fall Semester	Credits	Major	Core	Minor/ Other	Spring Semester	Credits	Major	Core	Minor/ Other
BL 2130 Genetics (or BL Elective)	4	X		X	BL Elective	4	X		X
BL Elective	3			X	CORE	1–3		X	
CORE	3	X			Electives	8–9	X	X	
CORE LINKED pair	6	X							
Total Credit Hours	16				Total Credit Hours	13–15			

Fourth Year

Fall Semester	Credits	Major	Core	Minor/ Other	Spring Semester	Credits	Major	Core	Minor/ Other
BL Elective	3–4	X		X	BL Elective	3–4	X		X
BL Elective	3–4	X		X	CORE	3		X	
CORE	3		X		CORE	3		X	
CORE	3		X		CORE	3		X	
CORE	3		X		CORE	3		X	
Total Credit Hours	15+				Total Credit Hours	15–16			

Students not taking a gap year should plan to take the MCAT in the spring semester of year 3, and prepare med school applications in the summer between years 3 and 4. The GRE or other standardized exams should be taken in the summer between years 3 and 4 for applications in year 4.

If you plan to take the MCAT in spring of year 3, consider taking a lighter load of 12-14 credits that semester. Most medical schools require two semesters of English, so consider CORE options that will fulfill this requirement.

Total Credit Hours Required for Major: 52–59

Total Credit Hours Required to Graduate: 120

Notes:

In addition to the 34-credit requirement for the major, one course must be a Cell-to-Organism course (e.g., BL2310, BL2320, BL3020, BL3500, BL3600, BL4100, BL4200, BL4710, or BL4750), one must be an Organism-to-Biosphere course (e.g., BL2220, BL3310, BL3700, BL4060, BL4170, BL4190, BL4230, BL4240, BL4260, BL4350, BL4400, BL4440, or BL4470 or BL4540), and one must be a 400-level course

Students may count one of the following courses for Biology major credit: CH4310, CH4350, PS 3260, or PS4260 (none of these courses count as the 400-level biology requirement).

The BL electives must also be used to meet the Additional Writing (AW), Capstone (C), and Oral Presentation (OP) requirements in the major; an individual class may count for multiple categories.

*Please consult your academic advisor to address specific needs of your major, minor, and/or concentration.