



Department of Biology

Bachelor of Science, Biomedical Specialization

Four-Year Academic Road Map

Sample only— academic advisors will help create an individualized plan. Students with more than one program should communicate with their advisor prior to enrollment. *Upper-division major electives should be selected in consultation with departmental faculty mentors.

YEAR 1	Fall Quarter		Winter Quarter		Spring Quarter		
	UNIV 101	Transition to CWU	BIOL 181	General Biology I	BIOL 182	General Biology II	
	BIOL 105*	Exploring Biology	CHEM 181	General Chemistry I	CHEM 182	General Chemistry II	
	ENG 101	Academic Writing I	CHEM 181Lab	General Chemistry Lab I	CHEM 182Lab	General Chemistry Lab II	
	MATH 152**	Functions and Reasoning	MATH 153	Pre-Calculus I	K1: Academic Writing II (ex: ENG 111)		
Total Quarter Credits		15	Total Quarter Credits		15	Total Quarter Credits	15

YEAR 2	Fall Quarter		Winter Quarter		Spring Quarter		
	BIOL 183	General Biology III	CHEM 361	Organic Chemistry I	BIOL 213	Introductory Biostatistics	
	CHEM 183	General Chemistry III	CHEM 361Lab	Organic Chemistry Lab I	CHEM 362	Organic Chemistry II	
	PHYS 110***	Math for Intro. Physics	PHYS 112***	Intro. Physics II with Lab	PHYS 113***	Intro. Physics III with Lab	
	PHYS 111***	Intro. Physics I with Lab	K3: Creative Expression (ex: MUS 103)		Elective/2 nd Program course		
Total Quarter Credits		16	Total Quarter Credits		15	Total Quarter Credits	14

YEAR 3	Fall Quarter		Winter Quarter		Spring Quarter		
	BIOL 355†	Human Anatomy & Phys I	BIOL 356†	Human Anatomy & Phys II	BIOL 321	Genetics	
	CHEM 431†	Biochemistry I	CHEM 432†	Biochemistry II	BIOL 430†	Cell Biology	
	K6: Individual & Society (ex: PSY 101)		K8: Science & Technology (ex: NUTR 101)		K5: Humanities (ex: PHIL 104)		
	Elective/2 nd Program course		Elective/2 nd Program course				
Total Quarter Credits		16	Total Quarter Credits		16	Total Quarter Credits	15

YEAR 4	Fall Quarter		Winter Quarter		Spring Quarter		
	BIOL 323†	Microbiology	BIOL 426†	Medical Microbiology	BIOL 470†	Mechanisms of Evolution	
	BIOL 422†	Immunology	K4: Global Dynamics (ex: COM 302)		BIOL 487	Biology Capstone	
	K2: Cmty, Culture & Citizenship (ex: PSY 310)		Elective/2 nd Program course		Elective/2 nd Program course		
					Elective/2 nd Program course		
Total Quarter Credits		14	Total Quarter Credits		13	Total Quarter Credits	16

Total Credits: 180

- *May not be required if student is eligible for BIOL 181 and CHEM 181
- **Assumes placement into MATH 152. If placement requirements are not met or if placement is beyond MATH 152, your advisor will help you create a suitable first-year Math sequence to set you up for success.
- ***PHYS 121/122/123 or PHYS 181/182/183 may be substituted
- †These courses may be customized for a student’s career aspirations. Please work with your professional advisor or faculty mentor for an academic plan that best serves your career interests.

Suggested second programs to consider: Chemistry minor, Psychology minor, Forensics Certificate

Department Webpage



CWU Course Catalog



General Education



General Degree Requirements

