

College of Science, Technology, Engineering & Mathematics

Biology BS (112 - 115 Credits)

Why major in the Biology Pre-Medical/Dental Option?

If you are interested in a career in health care, this option will prepare you for admission to professional or graduate programs or entry-level positions. This option provides a strong foundation in biology with supporting courses in general chemistry, organic chemistry, biochemistry, and physics, which are required for admission to clinical and biomedical programs. This coursework also is required for other programs including pharmacy, physical and occupational therapy, physician's assistant, and biomedical Master's and Ph.D. programs.

Other Degree Options

Minors in Biology,
Biology/Secondary, Add-on
Endorsement-General Science,
and MS in Biology

Career Opportunities

Physician, Physician Assistant, Physical
Therapist, Occupational Therapist,
Pharmacist, Dentist, Optometrist,
Biomedical Scientist, Laboratory
Technician, Health Technician



EASTERN
WASHINGTON UNIVERSITY

<http://www.ewu.edu/cstem>

Department Chair

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My Advisor

Name:

Office:

Email:

Suggested/Sample Schedule for New Freshmen

Year	Fall	Winter	Spring
Freshman	MATH 141 (5 cr.) BIOL 171 (5 cr.) CHEM 171 (4 cr.) CHEM 171L (1 cr.)	BIOL 172 (5 cr.) BIOL 270 (3 cr.) CHEM 172 (4 cr.) CHEM 172L (1 cr.) ENGL 101 (5 cr.)	BIOL 173 (5 cr.) CHEM 173 (4 cr.) CHEM 173L (1 cr.) ENGL 201 (5 cr.)
Sophomore	Diversity (5 cr.) BIOL 310 (5cr.) CHEM 351 (4 cr.)	CHEM 352 (4 cr.) CHEM 372 (3 cr.) BIOL 301 (5 cr.) Elective (1-5 cr.)	CHEM 353 (3 cr.) BIOL 436 or 438 (5 cr.) MATH 142 (5 cr.)
Junior	BIOL 380 or MATH 161 CHEM 480 (5 cr.) BIOL 371 (1 cr.) PHYS 131 (4 cr.) PHYS 161 (1 cr.)	BACR (5 cr.) CHEM 371 (1 cr.) CHEM 481 (5 cr.) PHYS 132 (4 cr.) PHYS 162 (1 cr.)	BACR (5 cr.) BACR (5 cr.) PHYS 133 (4 cr.) PHYS 163 (1 cr.)
Senior	BACR (5 cr.) Elective (2-5 cr.) Maj. Elective (5 cr.)	Electives (7-10 cr.) Maj. Elective (5 cr.)	Global (5 cr.) BIOL 351 or 334 (5 cr.) BIOL 490 (5 cr.)

My Plan

Year	Fall	Winter	Spring
Freshman			
Sophomore			
Junior			
Senior			

Required Supporting Courses: BIOL 371, BIOL 380, CHEM 171 & 171L, CHEM 172 & 172L, CHEM 173 & 173L, CHEM 351, CHEM 352, CHEM 353, CHEM 371, CHEM 372, CHEM 480, CHEM 481, PHYS 131, PHYS 132, PHYS 133, PHYS 161, PHYS 162, PHYS 163

Course Number	Course Name	Cr.	Prerequisites	Quarters Offered
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Core Courses

BIOL 171	Biology I	5	MATH 141	
BIOL 172	Biology II	5	BIOL 171	
BIOL 173	Biology III	5	BIOL 172	
BIOL 270	Biological Investigation	3	BIOL 171, BIOL 172	
BIOL 310	Fundamental of Genetics	5	BIOL 173, CHEM 173	

Focus Specific Course (Choose between BIOL 301, 302, 303, or 304)

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Focus Specific Course (Choose between BIOL 436, 438)

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Focus Specific Course (Choose between BIOL 334, 351, 352, or 353)

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Biology Electives (Choose two courses)

Capstone Course

BIOL 490	Senior Capstone	5		
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Flight Plan to Success

	Fall	Winter	Spring	
First Year	Take a first year seminar course	Meet with your academic advisor every term	Attend at least three campus events/activities	Explore interests and begin planning path at EWU
	Visit Career Services or take a Career Exploration course	Join a student club/organization in SAIL	Talk to professor in a major you're interested in pursuing	
Second Year	Declare your major and meet with your advisor	Identify faculty mentor for a possible directed study project	Search for career shadowing and/or employment	Declare major, participate in academic projects or research
	Attend Biology Department Seminars. Join the Pre-Med Pre-Dent Society	Apply for scholarships - see Biology webpage	Apply for a CSTEM undergraduate research grant	
Third Year	Meet with faculty advisor	Make an appointment with career advisor	Prepare resume and have it reviewed by a Career Advisor	Work with faculty on a project, plan for life after college
	Attend Biology Department Seminars	Begin soliciting letters of recommendation	Apply for summer internships, volunteering, or shadowing	
Fourth Year	Submit grad school applications by late summer	Want a job? Visit the Career Center	Complete directed-study research project	Graduate w/ a Biology/Pre-med/Dental/Vet degree from EWU!
	Apply for graduation using SOAR	Complete biology exit exam during BIOL490	Use SOAR to track degree progress	
			Participate in Research & Creative Works Symposium	