

Student's name: _____ EWU ID: _____

College of Science, Technology, Engineering, and Mathematics

SOAR Department: Biology | SOAR Major: BIOL BTEC

Major Declaration Form: Biology - Biotechnology, BS-BIOL, BTEC

Math proficiency needed: MATH 161 and 380

Bachelor of Science in Biology
Biotechnology Option
2017-2018 Catalog Year

First year courses and prerequisites	Notes	Previously offered **
<input type="checkbox"/> ENGL 101 COLL COMP: EXPOSITN & ARGUMNT (5 cr.) Prerequisite: ENGL 100, Writing Placement Test or General Advising.	Satisfies Writing Competency	F16, W17, Sp17, Su17
<input type="checkbox"/> CHEM 151 GENERAL CHEMISTRY (5 cr.) Prerequisites: ≥ 2.0 in MATH 141 or concurrent enrollment; ≥ 2.0 in CHEM 100 or ≥ 2.0 in CHEM 161 or one year of high school chemistry.	Satisfies Natural Science-Chemistry	F16, W17, Sp17
<input type="checkbox"/> BIOL 171 BIOLOGY I (5 cr.) Prerequisites: Concurrent enrollment in MATH 141 or completion of MATH 141 with ≥ 2.0 ; Students must receive ≥ 1.7 to enroll in BIOL 172 and ≥ 2.0 to enroll in BIOL 270.	Satisfies Natural Science-Biology	F16, Sp17
<input type="checkbox"/> ENGL 201 COLL COMP: ANALYSIS/RES/DOCMNT (5 cr.) Prerequisite: ENGL 101, Writing Placement Test or general advising.	Satisfies Writing Proficiency	F16, W17, Sp17, Su17
<input type="checkbox"/> CHEM 152 GENERAL CHEMISTRY (5 cr.) Prerequisites: CHEM 151; ≥ 2.0 in MATH 141.	Satisfies Natural Science-Chemistry	F16, W17, Sp17, Su17
<input type="checkbox"/> BIOL 172 BIOLOGY II (5 cr.) Prerequisite: ≥ 1.7 in BIOL 171 and ≥ 2.0 in MATH 141.	Satisfies Natural Science-Biology	F16, W17
<input type="checkbox"/> CPLA 100 & 101 COMPUTER APPLICATIONS LITERACY (1 cr.)	Satisfies Computer Literacy Proficiency	Every F, W, Sp, Su
<input type="checkbox"/> CHEM 153 GENERAL CHEMISTRY (5 cr.) Prerequisites: CHEM 152.		F16, W17, Sp17, Su17
<input type="checkbox"/> BIOL 270 BIOLOGICAL INVESTIGATION (5 cr.) Prerequisite: ≥ 2.0 in BIOL 171 or BIOL 172.	Satisfies Natural Science-Biology	F16, W17, Sp17, Su17
<input type="checkbox"/> BIOL 173 BIOLOGY III (5 cr.) Prerequisite: ≥ 1.7 in BIOL 171 and ≥ 2.0 in BIOL 172.	Satisfies Natural Science-Biology	W17, Sp17

I have discussed this academic plan with the student listed above. Advisor name: _____

Advisor signature: _____

* Prerequisites, corequisites, or other conditions must be met before enrolling in this course. See the catalog for details.

Consult your academic advisor when choosing your electives. Your choices may affect your time to graduation.

To follow this MAP, you should place into MATH 161 and 380. If you place lower, your custom MAP may change.

This list of courses is for information purposes only. All students are required to follow the catalog requirements for the year they declared a major.

Second year courses and prerequisites	Notes	Previously offered **
<input type="checkbox"/> PHYS 161 MECHANICS LABORATORY (1 cr.) Prerequisite: MATH 142.		F16, W17
<input type="checkbox"/> MATH 161 CALCULUS I (5 cr.) Prerequisites: MATH 142 and ENGL 100.	Satisfies Math Reasoning Proficiency	F16, W17, Sp17, Su17
<input type="checkbox"/> BIOL 310 FUNDAMENTALS OF GENETICS (5 cr.) Prerequisites: ≥ 1.7 in BIOL 171, ≥ 2.0 in BIOL 172, and BIOL 173; CHEM 153.		F16, W17, Sp17, Su17
<input type="checkbox"/> PHYS 131 (4 cr.)* or PHYS 151 (4 cr.)*		
<input type="checkbox"/> PHYS 162 HEAT & OPTICS LABORATORY (1 cr.) Prerequisite: MATH 142.		W17, Sp17
<input type="checkbox"/> CHEM 304 QUANTITATIVE ANALYSIS (6 cr.) Prerequisite: CHEM 153.		F16, W17
<input type="checkbox"/> BIOL 436 CELL BIOLOGY (5 cr.) Prerequisites: ≥ 1.7 in BIOL 171, ≥ 2.0 in BIOL 172, BIOL 173, BIOL 270; BIOL 310; and CHEM 153; or permission of instructor.		F16, W17, Su17
<input type="checkbox"/> PHYS 132 (4 cr.)* or PHYS 152 (4 cr.)*		
<input type="checkbox"/> PHYS 163 INSTRUMENTATION LAB I (1 cr.) Prerequisite: MATH 142.		Sp17
<input type="checkbox"/> GENERAL EDUCATION CORE REQUIREMENT (5 cr.)	Satisfies General Education Core Requirement	Every F, W, Sp, Su
<input type="checkbox"/> BIOL 301 MICROBIOLOGY (5 cr.) Prerequisites: ≥ 1.7 in BIOL 171, ≥ 2.0 in BIOL 270; CHEM 153.		F16, W17, Sp17, Su17
<input type="checkbox"/> PHYS 133 (4 cr.)* or PHYS 153 (4 cr.)*		

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Third year courses and prerequisites	Notes	Previously offered **
<input type="checkbox"/> CHEM 351 ORGANIC CHEMISTRY (4 cr.) Prerequisite: CHEM 153.		F16, W17
<input type="checkbox"/> MATH 380 (5 cr.)* or BIOL 380 (5 cr.)*		
<input type="checkbox"/> Major-specific elective (see catalog) (5 cr.)		
<input type="checkbox"/> INTERNATIONAL STUDIES (UPPER-LEVEL) (5 cr.)	Satisfies International Studies	Every F, W, Sp, Su
<input type="checkbox"/> CHEM 352 ORGANIC CHEMISTRY (4 cr.) Prerequisite: CHEM 351.		W17, Sp17
<input type="checkbox"/> Major-specific elective (see catalog) (5 cr.)		
<input type="checkbox"/> ANY ELECTIVE TO REACH 180 CREDITS (5 cr.)		Every F, W, Sp, Su
<input type="checkbox"/> ANY ELECTIVE TO REACH 180 CREDITS (3 cr.)		Every F, W, Sp, Su
<input type="checkbox"/> CHEM 480 BIOCHEMISTRY (5 cr.) Prerequisites: CHEM 352, concurrent enrollment or completion of BIOL 310 is suggested, CHEM 483 should be taken concurrently.		F16, Sp17
<input type="checkbox"/> CHEM 372 ORGANIC CHEM LAB I (3 cr.) Prerequisite: CHEM 351.		W17, Sp17
<input type="checkbox"/> CULTURAL & GENDER DIVERSITY (UPPER-LEVEL) (5 cr.)	Satisfies Cultural & Gender Diversity	Every F, W, Sp, Su

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Fourth year courses and prerequisites	Notes	Previously offered **
<input type="checkbox"/> GENERAL EDUCATION CORE REQUIREMENT (5 cr.)	Satisfies General Education Core Requirement	Every F, W, Sp, Su
<input type="checkbox"/> BIOL 489 TOPICS MOLEC BIOTECH (2 cr.) Prerequisites: BIOL 485, BIOL 488.		
<input type="checkbox"/> BIOL 438 MOLECULAR BIOLOGY (5 cr.) Prerequisites: BIOL 310 and one of BIOL 301, BIOL 302, BIOL 303, BIOL 304, CHEM 351.		F16, Sp17
<input type="checkbox"/> GENERAL EDUCATION CORE REQUIREMENT (5 cr.)	Satisfies General Education Core Requirement	Every F, W, Sp, Su
<input type="checkbox"/> BIOL 488 MOLECULAR BIOTECHNOLOGY LAB (2 cr.) Prerequisite: BIOL 485 or concurrent enrollment.		
<input type="checkbox"/> BIOL 485 MOLECULAR BIOTECHNOLOGY (5 cr.) Prerequisites: BIOL 301, BIOL 310, CHEM 480.		
<input type="checkbox"/> GENERAL EDUCATION CORE REQUIREMENT (5 cr.)	Satisfies General Education Core Requirement	Every F, W, Sp, Su
<input type="checkbox"/> BIOL 490A BIOTECHNOLOGY CAPSTONE (5 cr.) Prerequisites: senior standing, BIOL 485, BIOL 488, BIOL 489.	Satisfies Senior Capstone	
<input type="checkbox"/> Major-specific elective (see catalog) (4-5 cr.)		

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