

Student's name: _____ EWU ID: _____

College of Science, Technology, Engineering, and Mathematics

SOAR Department: Chemistry | SOAR Major: CHEM PPRF

Bachelor of Science in Chemistry & Biochemistry
Pre-Med-Pre-Dent-Pre-Vet options
2017-2018 Catalog Year

Major Declaration Form: Chemistry/Biochemistry - Pre-med/Pre-dent/Pre-vet, BS-CHEM, PPRF

Math proficiency needed: MATH 161

First year courses and prerequisites	Notes	Previously offered **
<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"/> GENERAL EDUCATION CORE REQUIREMENT (5 cr.)	Satisfies General Education Core Requirement	Every F, W, Sp, Su
<input type="checkbox"/> CPLA 100 & 101 COMPUTER APPLICATIONS LITERACY (1 cr.)	Satisfies Computer Literacy Proficiency	Every F, W, Sp, Su
<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"/> MATH 162 CALCULUS II (5 cr.) Prerequisite: MATH 161.		F16, W17, Sp17, Su17
<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 152 GENERAL CHEMISTRY (5 cr.) Prerequisites: CHEM 151; ≥ 2.0 in MATH 141.	Satisfies Natural Science-Chemistry	F16, W17, Sp17, Su17
<input type="checkbox"/> MATH 163 CALCULUS III (5 cr.) Prerequisite: MATH 162.		F16, W17, Sp17, Su17
<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 153 GENERAL CHEMISTRY (5 cr.) Prerequisites: CHEM 152.		F16, W17, Sp17, Su17

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* 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.

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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"/> PHYS 152 GENERAL PHYSICS II (4 cr.) Prerequisites: PHYS 151 and concurrent enrollment in MATH 162.	Satisfies Natural Science-Physics	W17, Sp17
<input type="checkbox"/> PHYS 151 GENERAL PHYSICS I (4 cr.) Prerequisites: Concurrent enrollment in MATH 161. Concurrent enrollment in PHYS 161 is recommended.	Satisfies Natural Science-Physics	F16, W17
<input type="checkbox"/> CHEM 304 QUANTITATIVE ANALYSIS (6 cr.) Prerequisite: CHEM 153.		F16, W17
<input type="checkbox"/> PHYS 162 HEAT & OPTICS LABORATORY (1 cr.) Prerequisite: MATH 142.		W17, Sp17
<input type="checkbox"/> PHYS 153 GENERAL PHYSICS III (4 cr.) Prerequisites: PHYS 152 and concurrent enrollment in MATH 163.		F16, Sp17
<input type="checkbox"/> INTERNATIONAL STUDIES (ANY ONE) (5 cr.)	Satisfies International Studies	Every F, W, Sp, Su
<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"/> 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"/> GENERAL EDUCATION CORE REQUIREMENT (5 cr.)	Satisfies General Education Core Requirement	Every F, W, Sp, Su
<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

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Third year courses and prerequisites	Notes	Previously offered **
<input type="checkbox"/> ANY ELECTIVE TO REACH 180 CREDITS (5 cr.)		Every F, W, Sp, Su
<input type="checkbox"/> BIOL 270 BIOLOGICAL INVESTIGATION (3 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
<input type="checkbox"/> GENERAL EDUCATION CORE REQUIREMENT (5 cr.)	Satisfies General Education Core Requirement	Every F, W, Sp, Su
<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"/> 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"/> CHEM 431 PHYSICAL CHEMISTRY LAB (1 cr.) Prerequisites: concurrent enrollment in CHEM 421.		F16
<input type="checkbox"/> CHEM 421 PHYSICAL CHEMISTRY (4 cr.) Prerequisites: CHEM 304, PHYS 133 or PHYS 153, MATH 162.		F16
<input type="checkbox"/> CHEM 351 ORGANIC CHEMISTRY (4 cr.) Prerequisite: CHEM 153.		F16, W17
<input type="checkbox"/> CULTURAL & GENDER DIVERSITY (ANY ONE) (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"/> CHEM 483 BIOCHEMISTRY LAB (2 cr.) Prerequisite: concurrent enrollment or completion of CHEM 480.		F16, Sp17
<input type="checkbox"/> CHEM 481 INTERMEDIARY METABOLISM (5 cr.) Prerequisites: CHEM 480.		W17
<input type="checkbox"/> CHEM 432 PHYSICAL CHEMISTRY LAB (2 cr.) Prerequisites: concurrent enrollment in CHEM 422.		W17
<input type="checkbox"/> CHEM 372 ORGANIC CHEM LAB I (3 cr.) Prerequisite: CHEM 351.		W17, Sp17
<input type="checkbox"/> CHEM 352 ORGANIC CHEMISTRY (3 cr.) Prerequisite: CHEM 351.		W17, Sp17
<input type="checkbox"/> BIOL 371 PRE-MED, DENT, VET PREPARATION (5 cr.) Prerequisite: junior standing or permission of instructor.		
<input type="checkbox"/> CHEM 480 BIOCHEMISTRY (1 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 422 PHYSICAL CHEMISTRY (4 cr.) Prerequisites: CHEM 421.		W17
<input type="checkbox"/> CHEM 373 ORGANIC CHEM LAB II (3 cr.) Prerequisites: CHEM 352 and CHEM 372.		F16, Sp17
<input type="checkbox"/> CHEM 371 PRE-MED, DENT, VET PREPARATION (2 cr.) Prerequisite: CHEM 352.		
<input type="checkbox"/> CHEM 353 ORGANIC CHEMISTRY (3 cr.) Prerequisite: CHEM 352.		F16, Sp17
<input type="checkbox"/> CHEM 482 INTEG TOP IN BIOCHEM & BIOPHY (3 cr.) Prerequisite: CHEM 480.		Sp17
<input type="checkbox"/> CHEM 395 INTERNSHIP (5 cr.) Prerequisite: permission of the instructor, department chair and college dean.		F16, W17, Sp17, Su17

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BIOL 490 DEPT SENIOR CAPSTONE (5 cr.)

Satisfies Senior Capstone

F16, W17, Sp17

Prerequisites: senior standing (135 credits), BIOL 310, and one of the following:
BIOL 301, BIOL 302, BIOL 303, or BIOL 304.



BIOL 438 MOLECULAR BIOLOGY (5 cr.)

F16, Sp17

Prerequisites: BIOL 310 and one of BIOL 301, BIOL 302, BIOL 303, BIOL 304,
CHEM 351.

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