

Student's name: _____ EWU ID: _____

College of Science, Technology, Engineering, and Mathematics

SOAR Department: Chemistry | SOAR Major: CHEM BIOC

Major Declaration Form: Chemistry/Biochemistry - Biochemistry, BS-CHEM, BIOC

Math proficiency needed: MATH 161

Bachelor of Science in Chemistry & Biochemistry
 Biochemistry option
 2017-2018 Catalog Year

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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Second year courses and prerequisites	Notes	Previously offered **
<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"/> INTERNATIONAL STUDIES (ANY ONE) (5 cr.)	Satisfies International Studies	Every F, W, Sp, Su
<input type="checkbox"/> CHEM 304 QUANTITATIVE ANALYSIS (6 cr.) Prerequisite: CHEM 153.		F16, W17
<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"/> GENERAL EDUCATION CORE REQUIREMENT (5 cr.)	Satisfies General Education Core Requirement	Every F, W, Sp, Su
<input type="checkbox"/> ANY ELECTIVE TO REACH 180 CREDITS (2 cr.)		Every F, W, Sp, Su
<input type="checkbox"/> PHYS 163 INSTRUMENTATION LAB I (1 cr.) Prerequisite: MATH 142.		Sp17
<input type="checkbox"/> PHYS 162 HEAT & OPTICS LABORATORY (1 cr.) Prerequisite: MATH 142.		W17, Sp17
<input type="checkbox"/> GENERAL EDUCATION CORE REQUIREMENT (5 cr.)	Satisfies General Education Core Requirement	Every F, W, Sp, Su
<input type="checkbox"/> ANY ELECTIVE TO REACH 180 CREDITS (5 cr.)		Every F, W, Sp, Su

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Third year courses and prerequisites	Notes	Previously offered **
<input type="checkbox"/> PHYS 153 GENERAL PHYSICS III (4 cr.) Prerequisites: PHYS 152 and concurrent enrollment in MATH 163.		F16, Sp17
<input type="checkbox"/> ANY ELECTIVE TO REACH 180 CREDITS (5 cr.)		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"/> GENERAL EDUCATION CORE REQUIREMENT (5 cr.)	Satisfies General Education Core Requirement	Every F, W, Sp, Su
<input type="checkbox"/> CULTURAL & GENDER DIVERSITY (ANY ONE) (5 cr.)	Satisfies Cultural & Gender Diversity	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
<input type="checkbox"/> CHEM 483 BIOCHEMISTRY LAB (5 cr.) Prerequisite: concurrent enrollment or completion of CHEM 480.		F16, Sp17
<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 351 ORGANIC CHEMISTRY (2 cr.) Prerequisite: CHEM 153.		F16, W17

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Fourth year courses and prerequisites	Notes	Previously offered **
<input type="checkbox"/> CHEM 481 INTERMEDIARY METABOLISM (5 cr.) Prerequisites: CHEM 480.		W17
<input type="checkbox"/> CHEM 352 ORGANIC CHEMISTRY (3 cr.) Prerequisite: CHEM 351.		W17, Sp17
<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"/> 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"/> BIOL 310 FUNDAMENTALS OF GENETICS (4 cr.) Prerequisites: ≥ 1.7 in BIOL 171, ≥ 2.0 in BIOL 172, and BIOL 173; CHEM 153.		F16, W17, Sp17, Su17
<input type="checkbox"/> CHEM 419 (5 cr.)* or 420 (5 cr.)* or 423 (3 cr.)* or 454 (4 cr.)*		
<input type="checkbox"/> CHEM 484 BIOCHEMISTRY LAB (2 cr.) Prerequisite: concurrent enrollment or completion of CHEM 480.		W17
<input type="checkbox"/> CHEM 482 INTEG TOP IN BIOCHEM & BIOPHY (3 cr.) Prerequisite: CHEM 480.		Sp17
<input type="checkbox"/> CHEM 482 INTEG TOP IN BIOCHEM & BIOPHY (4 cr.) Prerequisite: CHEM 480.		Sp17
<input type="checkbox"/> CHEM 422 PHYSICAL CHEMISTRY (3 cr.) Prerequisites: CHEM 421.		W17
<input type="checkbox"/> CHEM 395 (1-10 cr.)* or 498 (1-2 cr.)* or 499 (1-10 cr.)*		

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Fifth year courses and prerequisites	Notes	Previously offered **
<input type="checkbox"/> CHEM 353 ORGANIC CHEMISTRY (3 cr.) Prerequisite: CHEM 352.		F16, Sp17
<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"/> CHEM 490 (5 cr.)* or CHEM 491 (4-6 cr.)*		

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