

Student's name: _____ EWU ID: _____

College of Science, Technology, Engineering, and Mathematics

SOAR Department: Chemistry | SOAR Major: CHEM SECD

Bachelor of Arts in Education in Chemistry & Biochemistry
Secondary Education
2017-2018 Catalog Year

Major Declaration Form: Chemistry/Biochem Education - Secondary, BAE-CHEM, SECD

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"/> 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"/> CMST 200 (4 cr.) or CMST 201 (5 cr.) or an approved equivalent		
<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"/> GENERAL EDUCATION CORE REQUIREMENT (5 cr.)	Satisfies General Education Core Requirement	Every F, W, Sp, Su
<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"/> SPED 363 INTRO TO SPECIAL EDUCATION (4 cr.)		F16, W17, Sp17
<input type="checkbox"/> PHYS 161 MECHANICS LABORATORY (1 cr.) Prerequisite: MATH 142.		F16, W17
<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"/> GENERAL EDUCATION CORE REQUIREMENT (5 cr.)	Satisfies General Education Core Requirement	Every F, W, Sp, Su
<input type="checkbox"/> EDUC 201 INTRO TO EDUCATION (3 cr.)		F16, W17, Sp17, Su17
<input type="checkbox"/> PHYS 162 HEAT & OPTICS LABORATORY (1 cr.) Prerequisite: MATH 142.		W17, Sp17
<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"/> CHEM 304 QUANTITATIVE ANALYSIS (6 cr.) Prerequisite: CHEM 153.		F16, W17
<input type="checkbox"/> PSYC 304 EDUCATIONAL PSYCHOLOGY (5 cr.) Prerequisites: PSYC 201 recommended.		F16, W17, Sp17, Su17
<input type="checkbox"/> PHYS 163 INSTRUMENTATION LAB I (1 cr.) Prerequisite: MATH 142.		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"/> CHEM 121 (5 cr.) or 316 (5 cr.)*		

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Third 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"/> EDUC 303 FOUNDATIONS OF ASSESSMENT (3 cr.) Prerequisites: ENGL 201; MATH 211 or MATH 107; CMST 200 or proof of equivalence; passing the Washington Education Skill Test-Basic (WEST-B); ≥2.8 GPA. Co-requisites: EDUC 200 and either EDUC 308 or EDUC 309.	Concurrent with EDUC 200 and 309	F16, W17, Sp17, Su17
<input type="checkbox"/> EDUC 309 FOUNDATIONS SEC CLASSROOM MGMT (3 cr.) Prerequisites: ENGL 201; MATH 107 or MATH 211, CMST 200 or proof of equivalence; passing the Washington Education Skill Test-Basic (WEST-B); ≥2.8 GPA in the last 45 credits completed. Co-requisites: EDUC 200 and EDUC 303.	Concurrent with EDUC 200 and 303	F16, W17, Sp17, Su17
<input type="checkbox"/> CHEM 351 ORGANIC CHEMISTRY (4 cr.) Prerequisite: CHEM 153.		F16, W17
<input type="checkbox"/> EDUC 200 ADMISSION TO TEACHER EDUCATION (1 cr.) Prerequisites: A grade ≥2.8 in each of these courses ENGL 201; MATH 211 or MATH 107; CMST 200 or proof of equivalence; passing the Washington Education Skill Test-Basic (WEST-B) or satisfactory minimum SAT or ACT scores; a minimum cumulative GPA ≥2.8	Concurrent with EDUC 303 and 308	F16, W17, Sp17, Su17
<input type="checkbox"/> INTERNATIONAL STUDIES (ANY ONE) (5 cr.)	Satisfies International Studies	Every F, W, Sp, Su
<input type="checkbox"/> ANY ELECTIVE TO REACH 180 CREDITS (2 cr.)		Every F, W, Sp, Su
<input type="checkbox"/> CHEM 372 ORGANIC CHEM LAB I (3 cr.) Prerequisite: CHEM 351.		W17, Sp17
<input type="checkbox"/> CHEM 352 ORGANIC CHEMISTRY (4 cr.) Prerequisite: CHEM 351.		W17, Sp17
<input type="checkbox"/> ANY ELECTIVE TO REACH 180 CREDITS (5 cr.)		Every F, W, Sp, Su
<input type="checkbox"/> EDUC 413 MGT/ASSESS CONTENT LTCY SEC (4 cr.) Prerequisites: EDUC 200, EDUC 303 and EDUC 309.		F16, W17, Sp17, Su17

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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

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Fourth year courses and prerequisites	Notes	Previously offered **
<input type="checkbox"/> SCED 390 SCIENCE TEACHING METHODS (2 cr.) Prerequisite: EDUC 303 or by permission of the instructor plus upper level major courses.		F16
<input type="checkbox"/> ANY ELECTIVE TO REACH 180 CREDITS (5 cr.)		Every F, W, Sp, Su
<input type="checkbox"/> EDUC 341 SEC STRATEGIES, MGMT, ASSESSMT (4 cr.) Prerequisites: EDUC 413.		F16, W17, Sp17
<input type="checkbox"/> CHEM 421 PHYSICAL CHEMISTRY (4 cr.) Prerequisites: CHEM 304, PHYS 133 or PHYS 153, MATH 162.		F16
<input type="checkbox"/> CHEM 390 CHEM METHODS IN SEC SCHOOL (2 cr.) Prerequisite: CHEM 153 and concurrent enrollment in SCED 390, or permission of the instructor.		
<input type="checkbox"/> ANY ELECTIVE TO REACH 180 CREDITS (5 cr.)		Every F, W, Sp, Su
<input type="checkbox"/> EDUC 420 ADM TO PROFESSIONAL CANDIDACY (1 cr.) Prerequisites: P-3: concurrent with EDUC 439 and EDUC 495, Elementary: EDUC 338. Secondary: EDUC 341.		F16, W17, Sp17
<input type="checkbox"/> CHEM 490 SENIOR CAPSTONE (5 cr.) Prerequisites: CHEM 319 and CHEM 422.	Satisfies Senior Capstone	Sp17
<input type="checkbox"/> CHEM 422 PHYSICAL CHEMISTRY (3 cr.) Prerequisites: CHEM 421.		W17
<input type="checkbox"/> CULTURAL & GENDER DIVERSITY (ANY ONE) (5 cr.)	Satisfies Cultural & Gender Diversity	Every F, W, Sp, Su
<input type="checkbox"/> EDUC 426 SEC STUDENT TEACHING 7-12 (15 cr.) Prerequisite: EDUC 420.		F16, W17, Sp17

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