

Student's name: \_\_\_\_\_ EWU ID: \_\_\_\_\_

College of Science, Technology, Engineering, and Mathematics

SOAR Department: Physics | SOAR Major: BS PHYS

Major Declaration Form: Physics, BS-PHYS

Math proficiency needed: MATH 161

Bachelor of Science in Physics  
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"/> 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: $\geq 2.0$ in MATH 141 or concurrent enrollment; $\geq 2.0$ in CHEM 100 or $\geq 2.0$ 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 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; $\geq 2.0$ 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"/> CPLA 120 COMPUTER APPLICATIONS LITERACY (5 cr.)	Satisfies Computer Literacy 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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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. 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"/> 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"/> MATH 241 CALCULUS IV (5 cr.) Prerequisite: MATH 163.		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"/> 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"/> MATH 342 (5 cr.) or MATH 481 (5 cr.) or MATH 231 (5 cr.)		
<input type="checkbox"/> PHYS 164 INSTRUMENTATION LAB II (1 cr.)		F16
<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"/> MATH 347 INTRO DIFFERENTIAL EQUATIONS (4 cr.) Prerequisite: MATH 163.		F16, W17, Sp17, Su17
<input type="checkbox"/> GENERAL EDUCATION CORE REQUIREMENT (5 cr.)	Satisfies General Education Core Requirement	Every F, W, Sp, Su

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Third year courses and prerequisites	Notes	Previously offered **
<input type="checkbox"/> PHYS 322 ADVANCED PHYSICS LAB II (3 cr.) Prerequisite: junior standing or permission of the instructor.		Sp17
<input type="checkbox"/> PHYS 321 ADVANCED PHYSICS LAB I (3 cr.) Prerequisite: junior standing or permission of the instructor.		W17
<input type="checkbox"/> PHYS 221 GENERAL PHYSICS IV (4 cr.) Prerequisite: PHYS 153.		F16
<input type="checkbox"/> GENERAL EDUCATION CORE REQUIREMENT (5 cr.)	Satisfies General Education Core Requirement	Every F, W, Sp, Su
<input type="checkbox"/> PHYS 361 CLASSICAL MECHANICS I (4 cr.) Prerequisites: PHYS 153, MATH 163.		F16
<input type="checkbox"/> ANY UPPER-LEVEL ELECTIVE TO REACH 60 UL CREDITS (5 cr.)		Every F, W, Sp, Su
<input type="checkbox"/> ANY ELECTIVE TO REACH 180 CREDITS (5 cr.)		Every F, W, Sp, Su
<input type="checkbox"/> PHYS 362 CLASSICAL MECHANICS II (4 cr.) Prerequisite: PHYS 361.		W17
<input type="checkbox"/> ANY UPPER-LEVEL ELECTIVE TO REACH 60 UL CREDITS (4 cr.)		Every F, W, Sp, Su
<input type="checkbox"/> ANY UPPER-LEVEL ELECTIVE TO REACH 60 UL CREDITS (2 cr.)		Every F, W, Sp, Su
<input type="checkbox"/> CULTURAL & GENDER DIVERSITY (UPPER-LEVEL) (5 cr.)	Satisfies Cultural & Gender Diversity	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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Fourth year courses and prerequisites	Notes	Previously offered **
<input type="checkbox"/> PHYS 371 QUANTUM PHYSICS I: INTRO (4 cr.) Prerequisites: MATH 163, PHYS 221.		W17
<input type="checkbox"/> INTERNATIONAL STUDIES (UPPER-LEVEL) (5 cr.)	Satisfies International Studies	Every F, W, Sp, Su
<input type="checkbox"/> Any 300 or 400-level elective except for PHYS 390 and 497 (3 cr.)		
<input type="checkbox"/> PHYS 402 ELECTROMAGNETISM II (4 cr.) Prerequisites: MATH 163, PHYS 221.		
<input type="checkbox"/> PHYS 401 ELECTROMAGNETISM I (4 cr.) Prerequisites: MATH 163, PHYS 221.		
<input type="checkbox"/> ANY ELECTIVE TO REACH 180 CREDITS (3 cr.)		Every F, W, Sp, Su
<input type="checkbox"/> ITGS 400 OR AN APPROVED CAPSTONE COURSE* (4 cr.)	Satisfies Senior Capstone	Ask department
<input type="checkbox"/> PHYS 411 CLASSICAL THERMODYNAMICS (3 cr.) Prerequisites: PHYS 153, MATH 163.		Sp17
<input type="checkbox"/> PHYS 403 ELECTROMAGNETISM III (4 cr.) Prerequisites: MATH 163, PHYS 221.		
<input type="checkbox"/> PHYS 381 QUANTUM PHYSICS II: ATOMIC (4 cr.) Prerequisite: PHYS 371.		Sp17
<input type="checkbox"/> Any 300 or 400-level elective except for PHYS 390 and 497 (3 cr.)		

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