

Student's name: _____ EWU ID: _____

College of Science, Technology, Engineering, and Mathematics

SOAR Department: Engr & Des | SOAR Major: ELEC ENGR

Major Declaration Form: Electrical Engineering, BS-ELECENG

Math proficiency needed: MATH 161

Bachelor of Science in Electrical Engineering
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"/> 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 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"/> CSCD 255 C PROGRAMMING FOR ENGINEERS (4 cr.) Prerequisite: MATH 141 or math proficiency.		W17
<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"/> EENG 250 DIGITAL HARDWARE (2 cr.) Prerequisite: EENG 160 with a minimum grade ≥2.0.		F16, W17, Sp17
<input type="checkbox"/> EENG 160 DIGITAL CIRCUITS (5 cr.) Prerequisite: MTHD 104 or equivalent.		F16, 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.

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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 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"/> MATH 231 LINEAR ALGEBRA (5 cr.) Prerequisite: MATH 142.		F16, W17, Sp17, Su17
<input type="checkbox"/> CULTURAL & GENDER DIVERSITY (ANY ONE) (5 cr.)	Satisfies Cultural & Gender Diversity	Every F, W, Sp, Su
<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"/> EENG 260 MICROCONTROLLER SYSTEMS (4 cr.) Prerequisite: CSCD 255 and EENG 160, both with a minimum grade ≥ 2.0 .		F16, Sp17
<input type="checkbox"/> EENG 209 CIRCUIT THEORY I (5 cr.) Prerequisites: PHYS 153 or permission of the instructor.		F16, Sp17, Su17
<input type="checkbox"/> TCOM 205 (5 cr.)* or MENG 300 (5 cr.)*		
<input type="checkbox"/> GENERAL EDUCATION CORE REQUIREMENT (5 cr.)	Satisfies General Education Core Requirement	Every F, W, Sp, Su
<input type="checkbox"/> EENG 320 SIGNALS AND SYSTEMS I (5 cr.) Prerequisite: EENG 210 or concurrent enrollment or permission of the instructor; MATH 163 with a minimum grade ≥ 2.0 .		F16, W17
<input type="checkbox"/> EENG 250 DIGITAL HARDWARE (2 cr.) Prerequisite: EENG 160 with a minimum grade ≥ 2.0 .		F16, W17, Sp17
<input type="checkbox"/> EENG 210 CIRCUIT THEORY II (5 cr.) Prerequisites: EENG 209 with a minimum grade ≥ 2.0 .		F16, W17
<input type="checkbox"/> EE elective (5 cr.)		
<input type="checkbox"/> EENG 350 ENERGY SYSTEMS (5 cr.) Prerequisites: EENG 210 and MATH 163, both with a minimum grade ≥ 2.0 .		F16, Sp17
<input type="checkbox"/> EENG 330 MICROELECTRONICS I (5 cr.) Prerequisites: CHEM 151; EENG 209 and MATH 163, both with a minimum grade ≥ 2.0 and concurrent enrollment in EENG 210.		F16, W17
<input type="checkbox"/> EENG 321 SIGNALS AND SYSTEMS II (5 cr.) Prerequisite: EENG 320 and MATH 163, both with a minimum grade ≥ 2.0 .		W17, Sp17

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Fourth year courses and prerequisites	Notes	Previously offered **
<input type="checkbox"/> EENG 360 HARDWARE DESCRIPTION LANGUAGES (5 cr.) Prerequisite: CSCD 255 and EENG 160, both with a minimum grade ≥ 2.0 .		F16, Sp17
<input type="checkbox"/> EENG 331 MICROELECTRONICS II (5 cr.) Prerequisite: EENG 330 and MATH 163, both with a minimum grade ≥ 2.0 .		W17, Sp17
<input type="checkbox"/> EE elective (5 cr.)		
<input type="checkbox"/> EENG 401 (5 cr.)* or PHYS 401 (5 cr.)*		
<input type="checkbox"/> EENG 490A SR CAPSTONE: DESIGN LAB I (2 cr.) Prerequisites: senior standing.	Satisfies Senior Capstone	W17
<input type="checkbox"/> EENG 388 STOCHASTIC PROCESSES LAB (1 cr.) Prerequisite: MATH 163 or permission of the instructor and must be taken concurrently with EENG 383.		F16, W17
<input type="checkbox"/> EENG 383 APPLIED STOCHASTIC PROCESSES (4 cr.) Prerequisite: MATH 163 or permission of the instructor and must be taken concurrently with EENG 388.		F16, W17
<input type="checkbox"/> EE elective (5 cr.)		
<input type="checkbox"/> TECH 393 TECHNOLOGY WORLD CIVILIZATION (4 cr.) Prerequisite: ENGL 101.	Satisfies International Studies	F16, W17, Sp17, Su17
<input type="checkbox"/> EENG 490B SR CAPSTONE: DESIGN LAB II (3 cr.) Prerequisites: EENG 490A.	Satisfies Senior Capstone	Sp17
<input type="checkbox"/> EE elective (5 cr.)		

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