

Student's name: _____ EWU ID: _____

College of Science, Technology, Engineering, and Mathematics

SOAR Department: Engr & Des | SOAR Major: ME TECH

Major Declaration Form: Mechanical Engineering Tech, BS-METECH

Math proficiency needed: MATH 161

Bachelor of Science in Mechanical Engineering Technology
2017-2018 Catalog Year

First year courses and prerequisites	Notes	Previously offered **
<input type="checkbox"/> METC 110 ENGINEERING GRAPHICS (5 cr.) Prerequisites: METC 102, two years of high school drafting or equivalent.		F16, W17, Sp17, Su17
<input type="checkbox"/> MATH 141 PRECALCULUS I (5 cr.) Prerequisite: MATH 114 or equivalent course or a grade ≥ 3.0 in MTHD 104 or a satisfactory score on the mathematics placement test (MPT).		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"/> MATH 142 PRECALCULUS MATH II (5 cr.) Prerequisite: MATH 141 or equivalent.	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"/> ENGL 201 COLL COMP: ANALYSIS/RES/DOCMTN (5 cr.) Prerequisite: ENGL 101, Writing Placement Test or general advising.	Satisfies Writing 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"/> MENG 217 3D PARAMETRIC COMPUTER DESIGN (4 cr.) Prerequisite: METC 110 or High School AUTOCAD or permission of instructor.		F16, W17, Sp17, Su17
<input type="checkbox"/> MATH 162 CALCULUS II (5 cr.) Prerequisite: MATH 161.		F16, W17, Sp17, Su17
<input type="checkbox"/> MATH 161 CALCULUS I (5 cr.) Prerequisites: MATH 142 and ENGL 100.	Satisfies Math Reasoning Proficiency	F16, W17, Sp17, Su17

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Second year courses and prerequisites	Notes	Previously offered **
<input type="checkbox"/> TECH 393 TECHNOLOGY WORLD CIVILIZATION (4 cr.) Prerequisite: ENGL 101.	Satisfies International Studies	F16, W17, Sp17, Su17
<input type="checkbox"/> PHYS 161 MECHANICS LABORATORY (1 cr.) Prerequisite: MATH 142.		F16, W17
<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"/> PHYS 131 (4 cr.)* (GECR) or 151 (4 cr.)* (GECR)		
<input type="checkbox"/> PHYS 162 HEAT & OPTICS LABORATORY (1 cr.) Prerequisite: MATH 142.		W17, Sp17
<input type="checkbox"/> METC 340 STATICS (5 cr.) Prerequisites: PHYS 131 and MATH 142 or equivalent.		F16
<input type="checkbox"/> MENG 201 (4 cr.)* or CSCD 255 (5 cr.)* or CSCD 409 (5 cr.)*		
<input type="checkbox"/> PHYS 132 (4 cr.)* (GECR) or 152 (4 cr.)* (GECR)		
<input type="checkbox"/> PHYS 163 INSTRUMENTATION LAB I (1 cr.) Prerequisite: MATH 142.		Sp17
<input type="checkbox"/> METC 341 STRENGTH OF MATERIALS (4 cr.) Prerequisite: METC 340.		W17
<input type="checkbox"/> GENERAL EDUCATION CORE REQUIREMENT (5 cr.)	Satisfies General Education Core Requirement	Every F, W, Sp, Su
<input type="checkbox"/> PHYS 133 (4 cr.)* or 153 (4 cr.)*		

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Third year courses and prerequisites	Notes	Previously offered **
<input type="checkbox"/> MNTC 301 METALLIC PROCESSES (5 cr.) Prerequisite: junior standing or permission of instructor.		
<input checked="" type="checkbox"/> MENG 207 ELECTRICITY (4 cr.) Prerequisites: MATH 162, PHYS 153 or PHYS 133 .		F16, W17, Sp17
<input type="checkbox"/> CULTURAL & GENDER DIVERSITY (ANY ONE) (5 cr.)	Satisfies Cultural & Gender Diversity	Every F, W, Sp, Su
<input checked="" type="checkbox"/> METC 456 ENGINEERING ETHICS (2 cr.) Prerequisite: junior standing and a declared Mechanical Engineering or Mechanical Engineering Technology major or permission of instructor.		F16, W17, Sp17
<input type="checkbox"/> METC 387 FLUID MECHANICS (5 cr.) Prerequisites: grades ≥ 2.0 in all of the following, PHYS 132 or PHYS 152, MATH 162; TCOM 205 or MENG 300 (may be taken concurrently); and a declared Mechanical Engineering Technology major.		Sp17
<input type="checkbox"/> MENG 385 ROBOTICS & AUTOMATION (5 cr.) Prerequisite: grades ≥ 2.0 in all of the following, MENG 207 or MNTC 208; MENG 201 or CSCD 255; and a declared in Mechanical Engineering or Mechanical Engineering Technology major or permission of instructor.		F16, W17, Sp17, Su17
<input type="checkbox"/> TECH 403 COMP-AIDED DESIGN & PROJ MGMT (4 cr.) Prerequisites: MATH 107 or permission of the instructor.		F16, Sp17
<input checked="" type="checkbox"/> METC 415 DESIGN OF MACHINE ELEMENTS (5 cr.) Prerequisites: METC 341, MENG 353, MATH 162 or permission of instructor, and a declared Mechanical Engineering Technology major.		Sp17
<input type="checkbox"/> METC 342 DYNAMICS (4 cr.) Prerequisite: METC 340 and MATH 162.		Sp17
<input checked="" type="checkbox"/> MENG 300 (5 cr.)		

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Fourth year courses and prerequisites	Notes	Previously offered **
<input type="checkbox"/> METC 388 THERMODYNAMICS & HEAT TRANSFER (5 cr.) Prerequisite: PHYS 132 or PHYS 152; MATH 162; TCOM 205 or MENG 300 (may be taken concurrently); and a declared Mechanical Engineering Technology major.		F16
<input type="checkbox"/> MENG 452 ENGINEERING ECONOMICS (2 cr.) Prerequisite: junior standing; and a declared Mechanical Engineering or Mechanical Engineering Technology major or permission of instructor.		F16, W17, Sp17, Su17
<input type="checkbox"/> MENG 353 INDUSTRIAL MATERIALS (5 cr.) Prerequisite: CHEM 121 or CHEM 151.		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"/> METC 490A SENIOR CAPSTONE (2 cr.) Prerequisite: MENG 217, MATH 162, METC 341 (may be taken concurrently), TECH 301 and senior standing.	Satisfies Senior Capstone	W17
<input type="checkbox"/> MENG 493 SENIOR SEMINAR (1 cr.) Prerequisite: senior standing or permission of instructor; and a declared Mechanical Engineering or Mechanical Engineering Technology major.		F16, W17
<input type="checkbox"/> MENG 412 FUNDAMENTALS OF ENGINEERING (2 cr.) Prerequisite: senior standing; and declared into one of the following: Mechanical Engineering, Mechanical Engineering Technology, Electrical Engineering; or permission of instructor.		W17, Sp17
<input type="checkbox"/> MENG 407 (5 cr.)* or METC 417 (5 cr.)* or METC 468 (5 cr.)* or MNTC 404 (5 cr.)*		
<input type="checkbox"/> MENG 407 (5 cr.)* or METC 417 (5 cr.)* or METC 468 (5 cr.)* or MNTC 404 (5 cr.)*		
<input type="checkbox"/> METC 495 INTERNSHIP (6 cr.) Prerequisites: junior or senior status and permission of the instructor, department chair and dean and a declared Mechanical Engineering Technology major.		F16, W17, Sp17, Su17

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METC 490B SENIOR CAPSTONE DESIGN LAB II (3 cr.)

Prerequisite: METC 490A.

Satisfies Senior Capstone

Sp17

MENG 407 (5 cr.)* or METC 417 (5 cr.)* or METC 468 (5 cr.)* or MNTC 404 (5 cr.)*

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Fifth year courses and prerequisites

Notes

Previously offered **



GENERAL EDUCATION CORE REQUIREMENT (5 cr.)

Satisfies General Education Core Requirement

Every F, W, Sp, Su

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