

OSU - College of Engineering, Architecture & Technology

Mechanical Engineering, 2022-2023 Pre-Medical Option

REFER TO THE CATALOG TO CONFIRM
PREREQUISITE COURSES

Semester 1, 19 credit hours	Semester 2, 17 credit hours	Semester 3, 19 credit hours	Semester 4, 17 credit hours
<div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px;"> <u>ENGR</u> 1111 Intro to Engr </div>	<div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px;"> <u>ENGR</u> 1412 Intro Eng Computer Prgm </div>	<div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px;"> <u>ENSC</u> 2113 Statics </div>	<div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px;"> <u>ENSC</u> 2123 Dynamics </div>
CHEM 1314 or Adv Placement <div style="border: 1px solid orange; padding: 5px; margin-left: 10px;"> <u>CHEM</u> 1515 Chem 2 </div>	<div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px;"> <u>ENGR</u> 2421 Meas & Inst Lab </div>	CHEM1314, 1414 or 1515 MATH 2144 PHYS 2014 <div style="border: 1px solid orange; padding: 5px; margin-left: 10px;"> <u>ENSC</u> 2213 Thermo </div>	ENSC 2113 <div style="border: 1px solid orange; padding: 5px; margin-left: 10px;"> <u>ENSC</u> 2143 Strengths </div>
<div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px;"> BIOL 1114 Biology </div>	MATH 2144 <div style="border: 1px solid orange; padding: 5px; margin-left: 10px;"> <u>PHYS</u> 2014 Physics 1 </div>	PHYS 2014 <div style="border: 1px solid orange; padding: 5px; margin-left: 10px;"> <u>PHYS</u> 2114 Physics 2 </div>	ENSC 2143 ^{cc} <div style="border: 1px dashed orange; padding: 5px; margin-left: 10px;"> ⁶<u>ENSC</u> 2141 Strengths Lab </div>
MATH 1813 or ALEKS <div style="border: 1px solid orange; padding: 5px; margin-left: 10px;"> <u>MATH</u> 2144 Calc 1 </div>	MATH 2144 <div style="border: 1px solid orange; padding: 5px; margin-left: 10px;"> <u>MATH</u> 2153 Calc 2 </div>	MATH 2153 <div style="border: 1px solid orange; padding: 5px; margin-left: 10px;"> <u>MATH</u> 2163 Calc 3 </div>	ENSC 2113 MATH 2153 ENGR 2421 ^{cc} <div style="border: 1px solid gray; padding: 5px; margin-left: 10px;"> MAE 3333 Fluids </div>
<div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px;"> ¹<u>ENGL</u> 1113 Comp 1 </div>	ENGL 1113 <div style="border: 1px solid orange; padding: 5px; margin-left: 10px;"> ¹<u>ENGL</u> 1213 Comp 2 </div>	MATH 2153 <div style="border: 1px solid orange; padding: 5px; margin-left: 10px;"> <u>MATH</u> 2233 Diff Eq </div>	MAE3333 ^{cc} <div style="border: 1px dashed orange; padding: 5px; margin-left: 10px;"> ⁶<u>ENSC</u> 3231 Fluids Lab </div>
<div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px;"> <u>ENGR</u> 1332 CAD/SolidWorks </div>	BIOL 1114 <div style="border: 1px solid orange; padding: 5px; margin-left: 10px;"> BIOL 1604 Animal Bio </div>	CHEM 1515 <div style="border: 1px solid gray; padding: 5px; margin-left: 10px;"> CHEM 3053 O Chem </div>	ENSC 2113 ENSC 2213 ENSC 2123 ^{cc} ENSC 2143 ^{cc} MAE 3333 ^{cc} <div style="border: 1px solid gray; padding: 5px; margin-left: 10px;"> MAE 3153 Intro ME Design </div>
			CHEM 3053 <div style="border: 1px solid gray; padding: 5px; margin-left: 10px;"> CHEM 3153 O Chem 2 </div>

Summary of Graduation and School Requirements: Grades of "C" or better in all prerequisite courses, their prerequisites, and courses that directly support ABET student outcomes. (footnote 1 on Degree Requirements Sheet 2022-2023/Underlined on Flowchart). Grades of "C" or higher in all Upper Division Major Requirements courses. (footnote 2 on Degree Requirements Sheet 2022-2023/Shaded on Flowchart). A minimum Technical GPA of 2.00, Technical GPA is calculated from all courses in the curriculum with a prefix belonging to the degree program, or substitutions for these courses.

1. If a 'B' or better is earned in ENGL 1113 or 1313, ENGL 3323 may be substituted for ENGL 1213 or 1413 (per Academic Regulation 3.5).
2. Min 6 hrs (H) and 6 hrs (S). Of these hours, 1 course must meet the International Dimension (I) and 1 course must meet the Diversity (D) requirement.

PLEASE NOTE: The following courses are suggested, but not required: BIOC 3653, BIOL 3023, BIOL 3204, BIOL 4134
CHEM 1314 is recommended along with CHEM 1515 to meet the Oklahoma Medical Schools' requirement for 9 hours of inorganic chemistry

For Reference Only

135 hours		
Prereqs to Course ABC	Course ABC	Course ABC is a prereq to these courses.

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Mechanical Engineering, 2022-2023 Pre-Medical Option

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PREREQUISITE COURSES

Semester 5, 17 credit hours	Semester 6, 15 credit hours	Semester 7, 15 credit hours	Semester 8, 16 credit hours
MAE 3333 ^{CC} MAE 3233 Heat Trans MAE 3524 MATH 2233 MAE 3013 Engr Analysis MAE 3403 PHYS 2114 MAE 3013 Engr Analysis MAE 3724 BIOL 1604 MICR 3033 Molecular Bio CHEM 3153 CHEM 3112 O Chem Lab CHEM 1314, CHEM 1414 or CHEM 1515 ENSC 3313 Mat Sci MAE 3324 ENSC 3313 ^{CC} ENSC 3311 Mat Sci Lab MAE CAT II MATH 2153 ENSC 2613 Circuits MAE 3724 PHYS 2114	MAE 3233 MAE 3524 Therm Fluid Des CAT II MAE 3153 ENGR 2421 MAE 3724 Sys Analysis CAT II ENSC 2613 MAE 3013 MAE 3153 MAE 3324 Mech Des 1 CAT II ENSC 3313 MAE 3013 MAE 3403 Comp Meth ENGR 1412 ENSC 2613 ^{CC} ENSC 2411 Circuits Lab MAE CAT II	Prereqs Vary by Course 3 MAE CAT I Prereqs Vary by Course 5 MAE Elect MATH 2153 IEM 3503 Engr Econ POLS 1113 Am Govt Social & Behavioral Sciences (S) D or I	MAE 3524 MAE CAT II MAE 3324 MAE 3724 ENGR2421 See notes 4 and 6 Prereqs Vary by Course 5 MAE Elect HIST 1103 Am History Humanities (H) D or I Humanities (H) D or I

- Category I - MAE 4243, 4263, 4703, 4713, 4353, 4363, 4513, or 4623 (See Catalog for Prerequisites).
- Category II - MAE 4344 or MAE 4354 (See Catalog for Prerequisites).
- MAE Elective (6 hours) - MAE 3033, 3123, 3253, 3293, 4003, 4053, 4063, 4243, 4263, 4273, 4313, 4333, 4353, 4363, 4513, 4583, 4623, 4703, 4713, 4723, 4733
- In order to fulfill the Lab requirement you must complete ENGR 2421 and select two of the following lab courses: ENSC 2141, ENSC 2411, ENSC 3231, or ENSC 3311. Each course can be taken concurrently or after its corresponding course

PLEASE NOTE: The following courses are suggested, but not required: BIOC 3653, BIOL 3023, BIOL 3204, BIOL 4134
CHEM 1314 is recommended along with CHEM 1515 to meet the Oklahoma Medical Schools' requirement for 9 hours of inorganic chemistry

