

OSU - College of Engineering, Architecture & Technology

Mechanical Engineering, 2023-2024 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, 16 credit hours
<div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px;"> ENGR 1111 Intro to Engr </div>	<div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px;"> ENGR 1412 Intro Eng Computer Prgrm </div> MAE 3403	MATH 2144 PHYS 2014	<div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px;"> ENSC 2113 Statics </div> ENSC 2123 ENSC 2143 MAE 3333 MAE 3153 ^{cc}
<div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px;"> ENGR 1332 CAD/SolidWorks </div>	<div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px;"> ENGR 2421 Meas & Inst Lab </div> MAE 3333 ^{cc} MAE 3724 MAE CAT II	CHEM 1314, 1414, or 1515 MATH 2144 PHYS 2014	<div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px;"> ENSC 2213 Thermo </div> MAE 3153 ^{cc}
CHEM 1314 or Adv Placement	<div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px;"> PHYS 2014 Physics 1 </div> MATH 2144	<div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px;"> PHYS 2114 Physics 2 </div> PHYS 2014	<div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px;"> Engineering Science Laboratory </div> See note 8
<div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px;"> CHEM 1515 Chem 2 </div> ENSC 2213 ENSC 3313	<div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px;"> MATH 2153 Calc 2 </div> MATH 2144	<div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px;"> MATH 2163 Calc 3 </div> MATH 2153	<div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px;"> MAE 3333 Fluids </div> ENSC 2113 MATH 2153 ENGR 2421 ^{cc}
<div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px;"> MATH 2144 Calc 1 </div> MATH 1813 ALEKS >=75	<div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px;"> MATH 2153 Calc 2 </div> MATH 2144	<div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px;"> MATH 2233 Diff Eq </div> MATH 2153	<div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px;"> MAE 3153 Intro ME Design </div> ENSC 2113 ^{cc} ENSC 2213 ^{cc}
<div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px;"> ENGL 1113 Comp 1 </div> ENGL 1213	<div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px;"> ENGL 1213 Comp 2 </div> ENGL 1113	<div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px;"> CHEM 3053 O Chem </div> CHEM 1515	<div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px;"> CHEM 3153 O Chem 2 </div> CHEM 3053
<div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px;"> BIOL 1114 Biology </div> BIOL 1604	<div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px;"> BIOL 1604 Animal Bio </div> BIOL 1114		

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 2023-2024/Underlined on Flowchart). Grades of "C" or higher in all Upper Division Major Requirements courses. (footnote 2 on Degree Requirements Sheet 2023-2024/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.

- 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).
- 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 - Edited 03/07/2023

135 hours		
Prereqs to Course ABC	<div style="border: 1px solid orange; padding: 5px; text-align: center;"> Course ABC </div>	Course ABC is a prereq to these courses.

OSU - College of Engineering, Architecture & Technology

Mechanical Engineering, 2023-2024 Pre-Medical Option

REFER TO THE CATALOG TO CONFIRM
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 Transfer MAE 3524	ENSC 2213 MAE 3153 MAE 3333 MAE 3233 MAE 3524 Thermal Fluids Design MAE CAT II Various Electives	Prereqs Vary by Course 3MAE CAT I Elective	MAE 3524 MAE 3324 MAE 3724 ENGR2421 See notes 5 and 8 4MAE CAT II Senior Design Project
ENSC 2113 _{cc} MAE 3153 Intro ME Design MAE 3324 MAE 3524	MAE 3153 ENSC 3313 MAE 3324 Mech Des 1 MAE CAT II Various Electives	Prereqs Vary by Course 5MAE Elect	Prereqs Vary by Course 5MAE Elect
MATH 2233 PHYS 2014 MAE 3013 Engr Analysis MAE 3403 MAE 3724	ENGR 2421 ENSC 2123 ENSC 2613 MAE 3013 MAE 3724 Sys Analysis and Control MAE 3403 _{cc} MAE CAT II Various Electives	MATH 2153 IEM 3503 Engr Econ	HIST 1103 or 1483 or 1493 Am History
MATH 2153 PHYS 2114 ENSC 2613 Circuits MAE 3724	ENGR 1412 ENSC 2123 MAE 3013 MAE 3724 _{cc} MAE 3403 Comp Meth Various Electives	POLS 1113 Am Govt	2Humanities (H) D or I
BIOL 1604 MICR 3033 Molecular Bio	See note 8 Engineering Science Laboratory MAE CAT II Various Electives	2Social & Behavioral Sciences (S) D or I	2Humanities (H) D or I
CHEM 3153 CHEM 3112 O Chem Lab			

- Category I - MAE 4243, 4263, 4353, 4363, 4513, 4623, 4703, 4713, or 4723(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, 4010, 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 2611, ENSC 3231, ENSC 3311, or ENSC 3431. Each course can be taken concurrently or after its corresponding course in any semester before MAE CAT II (MAE 4344 or MAE 4354)

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 - Edited 03/07/2023

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