

# OSU - College of Engineering, Architecture & Technology

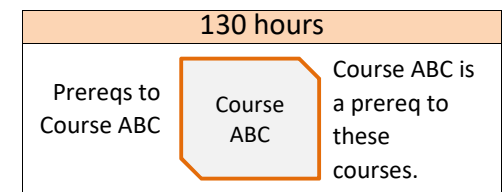
## Mechanical Engineering, 2023-2024 Petroleum Option

REFER TO THE CATALOG TO CONFIRM  
PREREQUISITE COURSES

Semester 1, 17 credit hours	Semester 2, 16 credit hours	Semester 3, 15 credit hours	Semester 4, 17 credit hours
<div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; text-align: center;"> <b>ENGR</b> <b>1111</b> <u>Intro to Engr</u> </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 40%;">                     MATH 1513 ALEKS &gt;=56                 </div> <div style="width: 40%; border: 1px solid orange; padding: 5px; text-align: center;"> <b>CHEM</b> <b>1414 or 1515</b> <u>Chem for Engineers</u> </div> <div style="width: 20%;">                     ENSC 2213 ENSC 3313                 </div> </div> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; text-align: center;"> <b>ENGR</b> <b>1332</b> <u>CAD/SolidWorks</u> </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 40%;">                     MATH 1813 ALEKS &gt;=75                 </div> <div style="width: 40%; border: 1px solid orange; padding: 5px; text-align: center;"> <b>MATH</b> <b>2144</b> <u>Calc 1</u> </div> <div style="width: 20%;">                     MATH 2153 PHYS 2014 ENSC 2113 ENSC 2213                 </div> </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 40%;"> <sup>1</sup>ENGL <b>1113</b> <u>Comp 1</u> </div> <div style="width: 20%;">                     ENGL 1213                 </div> </div> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; text-align: center;"> <b>POLS</b> <b>1113</b> <u>Am Govt</u> </div>	<div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; text-align: center;"> <b>ENGR</b> <b>1412</b> <u>Intro Eng Computer Prgm</u> </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 40%;"></div> <div style="width: 20%;">                     MAE 3403                 </div> </div> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; text-align: center;"> <b>HIST</b> <b>1103 or 1483 or 1493</b> <u>Am History</u> </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 40%;">                     MATH 2144                 </div> <div style="width: 40%; border: 1px solid orange; padding: 5px; text-align: center;"> <b>PHYS</b> <b>2014</b> <u>Physics 1</u> </div> <div style="width: 20%;">                     ENSC 2113 ENSC 2213 PHYS 2114 MAE 3013                 </div> </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 40%;">                     MATH 2144                 </div> <div style="width: 40%; border: 1px solid orange; padding: 5px; text-align: center;"> <b>MATH</b> <b>2153</b> <u>Calc 2</u> </div> <div style="width: 20%;">                     MATH 2163 MATH 2233 ENSC 2613 MAE 3333 IEM 3503                 </div> </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 40%;">                     ENGL 1113                 </div> <div style="width: 40%; border: 1px solid orange; padding: 5px; text-align: center;"> <sup>1</sup>ENGL <b>1213</b> <u>Comp 2</u> </div> </div> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; text-align: center;"> <b>ENGR</b> <b>2421</b> <u>Data Acq Ctrl Lab</u> </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 40%;"></div> <div style="width: 20%;">                     MAE 3333<sub>cc</sub> MAE 3724 MAE CAT II                 </div> </div>	<div style="display: flex; justify-content: space-between;"> <div style="width: 40%;">                     MATH 2144 PHYS 2014                 </div> <div style="width: 40%; border: 1px solid orange; padding: 5px; text-align: center;"> <b>ENSC</b> <b>2113</b> <u>Statics</u> </div> <div style="width: 20%;">                     ENSC 2123 ENSC 2143 MAE 3333 MAE 3153<sub>cc</sub> </div> </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 40%;">                     CHEM 1314, 1414, or 1515 MATH 2144 PHYS 2014                 </div> <div style="width: 40%; border: 1px solid orange; padding: 5px; text-align: center;"> <b>ENSC</b> <b>2213</b> <u>Thermo</u> </div> <div style="width: 20%;">                     MAE 3153<sub>cc</sub> </div> </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 40%;">                     MATH 2153                 </div> <div style="width: 40%; border: 1px solid orange; padding: 5px; text-align: center;"> <b>MATH</b> <b>2233</b> <u>Diff Eq</u> </div> <div style="width: 20%;">                     MAE 3013                 </div> </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 40%;">                     CHEM 1314 or 1414                 </div> <div style="width: 40%; border: 1px solid orange; padding: 5px; text-align: center;"> <sup>6</sup>GEOL <b>3413</b> <u>PETE Geol</u> </div> <div style="width: 20%;">                     GEOL 4323<sub>cc</sub> </div> </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 40%;">                     CHEM 1414 MATH 2144 PHYS 2014 GEOL 3413<sub>cc</sub> </div> <div style="width: 40%; border: 1px solid orange; padding: 5px; text-align: center;"> <sup>6</sup>PETE <b>4303</b> <u>Rocks &amp; Fluids</u> </div> <div style="width: 20%;">                     PETE 4343 PETE 4333                 </div> </div>	<div style="display: flex; justify-content: space-between;"> <div style="width: 40%;">                     ENSC 2113                 </div> <div style="width: 40%; border: 1px solid orange; padding: 5px; text-align: center;"> <b>ENSC</b> <b>2123</b> <u>Dynamics</u> </div> <div style="width: 20%;">                     MAE 3403 MAE 3724                 </div> </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 40%;">                     PHYS 2014                 </div> <div style="width: 40%; border: 1px solid orange; padding: 5px; text-align: center;"> <b>PHYS</b> <b>2114</b> <u>Physics 2</u> </div> <div style="width: 20%;">                     ENSC 2613                 </div> </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 40%;">                     CHEM, 1314, 1414 or 1515                 </div> <div style="width: 40%; border: 1px solid orange; padding: 5px; text-align: center;"> <b>ENSC</b> <b>3313</b> <u>Mat Sci</u> </div> <div style="width: 20%;">                     MAE 3324                 </div> </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 40%;">                     ENSC 2113 MATH 2153 ENGR 2421<sub>cc</sub> </div> <div style="width: 40%; border: 1px solid orange; padding: 5px; text-align: center;"> <b>MAE</b> <b>3333</b> <u>Fluids</u> </div> <div style="width: 20%;">                     MAE 3233<sub>cc</sub> MAE 3524                 </div> </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 40%;">                     GEOL 3413                 </div> <div style="width: 40%; border: 1px solid orange; padding: 5px; text-align: center;"> <sup>7</sup>GEOL <b>4323</b> <u>Well Anlys</u> </div> </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 40%;">                     See note 8                 </div> <div style="width: 40%; border: 1px solid orange; padding: 5px; text-align: center;"> <b>Engineering Science Laboratory</b> </div> <div style="width: 20%;">                     MAE CAT II Various Electives                 </div> </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 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.

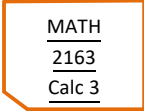
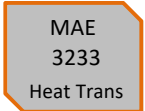





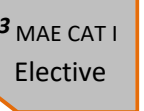
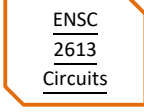


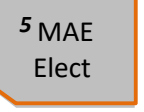
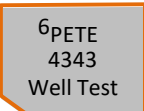



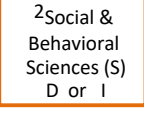
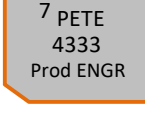
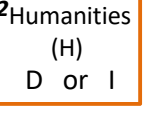
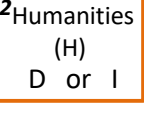
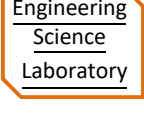
1. If a 'B' or better is earned in ENGL 1113 or 1313, ENGL 3323 may be substituted for ENGL 1213 or 1413 (per Academic Regulation 3.5).
2. Min 6 hrs (H) and 3 hrs (S). Of these hours, 1 course should meet the International Dimension (I) and 1 course should meet the Diversity (D) to efficiently meet university general education requirements.



# OSU - College of Engineering, Architecture & Technology

## Mechanical Engineering, 2023-2024 Petroleum Option

REFER TO THE CATALOG TO CONFIRM  
PREREQUISITE COURSES

Semester 5, 16 credit hours	Semester 6, 15 credit hours	Semester 7, 18 credit hours	Semester 8, 16 credit hours
MATH 2153 	MAE 3333 <sub>cc</sub>  MAE 3524	ENSC 2213  MAE CAT II MAE 3153 MAE 3333 MAE 3233	MAE 3524 MAE 3324  MAE 3724 ENGR2421 See notes 4 and 8
ENSC 2113  MAE 3324	ENSC 2113 <sub>cc</sub>  MAE 3324 ENSC 2213 <sub>cc</sub> MAE 3524	MAE 3153  MAE CAT II ENSC 3313 Various Electives	Prereqs Vary by Course 
MATH 2153 PHYS 2114  MAE 3724	MATH 2233  MAE 3403 PHYS 2014 MAE 3724	ENGR 2421  MAE 3403 <sub>cc</sub> ENSC 2123 MAE CAT II ENSC 2613 MAE 3013 Various Electives	Prereqs Vary by Course 
PETE 4303 	GEOL 3413 	ENGR 1412  Various Electives ENSC 2123 MAE 3013 MAE 3724 <sub>cc</sub>	MATH 2153 
	MAE 3333  PETE 4303		
See note 8  MAE CAT II Various Electives			

- 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 (3 hours) - MAE 3033, 3123, 3253, 3293, 4003, 4010, 4053, 4063, 4243, 4263, 4273, 4313, 4333, 4353, 4363, 4513, 4583, 4623, 4703, 4713, 4723, 4733.
- Fall only classes: GEOL 3413, PETE 4303, PETE 4343
- Spring only classes: GEOL 4323, PETE 4313, PETE 4333
- 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)

