

OSU - College of Engineering, Architecture & Technology

Mechanical Engineering, 2022-2023 Petroleum Option

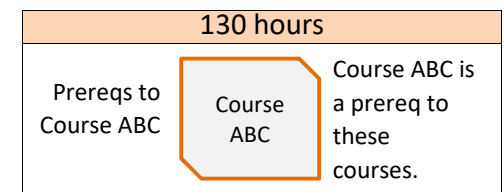
REFER TO THE CATALOG TO CONFIRM
PREREQUISITE COURSES

Semester 1, 17 credit hours	Semester 2, 16 credit hours	Semester 3, 15 credit hours	Semester 4, 16 credit hours
<div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; text-align: center;"> ENGR <u>1111</u> Intro to Engr </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> MATH 1513 ALEKS >=56 </div> <div style="width: 30%; border: 1px solid orange; padding: 5px; text-align: center;"> CHEM <u>1414</u> For Engr </div> <div style="width: 30%;"> ENSC 2213 ENSC 3313 </div> </div> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; text-align: center;"> ENGR <u>1332</u> CAD/SolidWorks </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> MATH 1813 OR ALEKS >=75 </div> <div style="width: 30%; border: 1px solid orange; padding: 5px; text-align: center;"> MATH <u>2144</u> Calc 1 </div> <div style="width: 30%;"> PHYS 2014 MATH 2153 ENSC 2113 ENSC 2213 </div> </div> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; text-align: center;"> ¹ENGL <u>1113</u> Comp 1 </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"></div> <div style="width: 30%;"></div> <div style="width: 30%;"> ENGL 1213 </div> </div> <div style="border: 1px solid orange; padding: 5px; text-align: center;"> POLS 1113 Am Govt </div>	<div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; text-align: center;"> ENGR <u>1412</u> Intro Eng Computer Prgm </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"></div> <div style="width: 30%;"></div> <div style="width: 30%;"> MAE 3403 </div> </div> <div style="border: 1px solid orange; padding: 5px; text-align: center;"> HIST 1103 Am History </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"></div> <div style="width: 30%;"></div> <div style="width: 30%;"> ENSC 2113 ENSC 2213 PHYS 2114 MAE 3013 </div> </div> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; text-align: center;"> MATH <u>2144</u> Physics 1 </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> MATH 2144 </div> <div style="width: 30%;"></div> <div style="width: 30%;"> MATH 2163 MATH 2233 ENSC 2613 MAE 3333 IEM 3503 </div> </div> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; text-align: center;"> ¹ENGL <u>1213</u> Comp 2 </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> ENGL 1113 </div> <div style="width: 30%;"></div> <div style="width: 30%;"> MAE 3333^{CC} MAE 3724 MAE CAT II </div> </div> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; text-align: center;"> ENGR <u>2421</u> Data Acq Ctrl Lab </div>	<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> MATH 2144 PHYS 2014 </div> <div style="width: 30%; border: 1px solid orange; padding: 5px; text-align: center;"> ENSC <u>2113</u> Statics </div> <div style="width: 30%;"> ENSC 2123 ENSC 2143 MAE 3333 MAE 3153 </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="width: 30%;"> CHEM 1314, 1414, or 1515 MATH 2144 PHYS 2014 </div> <div style="width: 30%; border: 1px solid orange; padding: 5px; text-align: center;"> ENSC <u>2213</u> Thermo </div> <div style="width: 30%;"> MAE 3153 </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="width: 30%;"> MATH 2153 </div> <div style="width: 30%; border: 1px solid orange; padding: 5px; text-align: center;"> MATH <u>2233</u> Diff Eq </div> <div style="width: 30%;"> MAE 3013 </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="width: 30%;"> CHEM 1314 or 1414 </div> <div style="width: 30%; border: 1px solid orange; padding: 5px; text-align: center;"> ⁶GEOL <u>3413</u> PETE Geol </div> <div style="width: 30%;"> GEOL 4323^{CC} </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="width: 30%;"> CHEM 1414 MATH 2144 PHYS 2014 GEOL 3413^{CC} </div> <div style="width: 30%; border: 1px solid orange; padding: 5px; text-align: center;"> ⁶PETE <u>4303</u> Rocks & Fluids </div> <div style="width: 30%;"> PETE 4343 PETE 4333 </div> </div>	<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> ENSC 2113 </div> <div style="width: 30%; border: 1px solid orange; padding: 5px; text-align: center;"> ENSC <u>2123</u> Dynamics </div> <div style="width: 30%;"> MAE 3153^{CC} </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="width: 30%;"> CHEM, 1314, 1414 or 1515 </div> <div style="width: 30%; border: 1px solid orange; padding: 5px; text-align: center;"> ENSC <u>3313</u> Mat Sci </div> <div style="width: 30%;"> MAE 3324 </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="width: 30%;"> ENSC 3313^{CC} </div> <div style="width: 30%; border: 1px dashed orange; padding: 5px; text-align: center;"> ⁸ENSC <u>3311</u> Mat Sci Lab </div> <div style="width: 30%;"> MAE CAT II </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="width: 30%;"> GEOL 3413 </div> <div style="width: 30%; border: 1px solid orange; padding: 5px; text-align: center;"> ⁷GEOL <u>4323</u> Well Anlys </div> <div style="width: 30%;"></div> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="width: 30%;"> GEOL 3413 MAE 3333 </div> <div style="width: 30%; border: 1px solid orange; padding: 5px; text-align: center;"> ⁷PETE <u>4313</u> Drilling </div> <div style="width: 30%;"></div> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="width: 30%;"> PHYS 2014 </div> <div style="width: 30%; border: 1px solid orange; padding: 5px; text-align: center;"> PHYS <u>2114</u> Physics 2 </div> <div style="width: 30%;"> ENSC 2613 </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 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 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.

For Reference Only



OSU - College of Engineering, Architecture & Technology

Mechanical Engineering, 2022-2023 Petroleum Option

REFER TO THE CATALOG TO CONFIRM
PREREQUISITE COURSES

Semester 5, 16 credit hours	Semester 6, 16 credit hours	Semester 7, 18 credit hours	Semester 8, 16 credit hours
<p>ENSC 2113 ENSC 2143 Strengths MAE 3153^{cc}</p> <p>ENSC 2143^{cc} ENSC 2141 Strengths Lab MAE CAT II</p> <p>ENSC 2113 MAE 3333 MAE 3233^{cc} MATH 2153 MAE 3153^{cc} ENGR 2421^{cc} MAE 3333 Fluids</p> <p>MAE3333^{cc} ENSC 3231 Fluids Lab MAE CAT II</p> <p>MATH 2153 ENSC 2613 Circuits MAE 3724 PHYS 2114</p> <p>ENSC 2613^{cc} 8 ENSC 2411 Circuits Lab MAE CAT II</p> <p>PETE 4303 6 PETE 4343 Well Test</p> <p>MATH 2153 MATH 2163 Calc 3</p>	<p>MAE 3333^{cc} MAE 3233 Heat Trans MAE 3524</p> <p>MATH 2233 MAE 3013 Engr Analysis MAE 3403 PHYS 2014 MAE 3724</p> <p>MATH 2153 IEM 3503 Engr Econ</p> <p>ENSC 2113 MAE 3153 Intro ME Design MAE 3324 ENSC 2213 MAE 3524 ENSC 2123^{cc} ENSC 2143^{cc} MAE 3333^{cc}</p> <p>ENSC 3233 7 PETE 4333 Prod Op PETE 4303</p>	<p>MAE 3153 MAE 3524 Therm Fluid Design MAE CAT II MAE 3233</p> <p>ENGR 2421 MAE 3724 Sys Analysis MAE CAT II ENSC 2613 MAE 3013</p> <p>MAE 3153 MAE 3324 Mech Des 1 MAE CAT II ENSC 3313</p> <p>MAE 3013 MAE 3403 Comp Meth ENGR 1412</p> <p>2 Social & Behavioral Sciences (S) D or I</p>	<p>Prereqs Vary by Course 3 MAE CAT I</p> <p>MAE 3524 4 MAE CAT II MAE 3324 MAE 3724 ENGR2421 See notes 4 and 8</p> <p>Prereqs Vary by Course 5 MAE Elect</p> <p>2 Humanities (H) D or I</p> <p>2 Humanities (H) D or I</p>

3. Category I - MAE 4243, 4263, 4703, 4713, 4353, 4363, 4513, or 4623 (See Catalog for Prerequisites).
4. Category II - MAE 4344 or MAE 4354 (See Catalog for Prerequisites).
5. MAE Elective (3 hours) - MAE 3033, 3123, 3253, 3293, 4003, 4053, 4063, 4243, 4263, 4273, 4313, 4333, 4353, 4363, 4513, 4583, 4623, 4703, 4713, 4723, 4733
6. Fall only classes: GEOL 3413, PETE 4303, PETE 4343
7. Spring only classes: GEOL 4323, PETE 4313, PETE 4333
8. 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

