

OSU - College of Engineering, Architecture & Technology

Mechanical Engineering, 2020-2021 Petroleum Option

Semester 1, 17 credit hours	Semester 2, 18 credit hours	Semester 3, 17 credit hours	Semester 4, 17 credit hours
<div style="border: 1px solid orange; padding: 5px; display: inline-block; margin-bottom: 10px;"> <u>ENGR</u> <u>1111</u> Intro to Engr </div>	<div style="border: 1px solid orange; padding: 5px; display: inline-block; margin-bottom: 10px;"> <u>ENGR</u> <u>1412</u> VBA Prgrm </div> MAE 3403	MATH 2144 PHYS 1114 or 2014	<div style="border: 1px solid orange; padding: 5px; display: inline-block; margin-bottom: 10px;"> <u>ENSC</u> <u>2113</u> Statics </div> ENSC 2123 ENSC 2143 MAE 3333 MAE 3153
MATH 1513 <div style="border: 1px solid orange; padding: 5px; display: inline-block; margin-left: 10px; margin-bottom: 10px;"> <u>CHEM</u> <u>1414</u> For Engr </div> ENSC 2213 ENSC 3313	<div style="border: 1px solid orange; padding: 5px; display: inline-block; margin-bottom: 10px;"> HIST 1103 Am History </div>	CHEM1314, 1414 or 1515 MATH 2144 PHYS 2014	<div style="border: 1px solid orange; padding: 5px; display: inline-block; margin-bottom: 10px;"> <u>ENSC</u> <u>2213</u> Thermo </div> MAE 3293 MAE 3153
<div style="border: 1px solid orange; padding: 5px; display: inline-block; margin-bottom: 10px;"> <u>ENGR</u> <u>1332</u> CAD/SolidWorks </div>	MATH 2144 <div style="border: 1px solid orange; padding: 5px; display: inline-block; margin-left: 10px; margin-bottom: 10px;"> <u>PHYS</u> <u>2014</u> Physics 1 </div> ENSC 2113 ENSC 2213 PHYS 2114	PHYS 2014 <div style="border: 1px solid orange; padding: 5px; display: inline-block; margin-left: 10px; margin-bottom: 10px;"> <u>PHYS</u> <u>2114</u> Physics 2 </div> ENSC 2613 MAE 3013	Co/Pre ENSC 2143 <div style="border: 1px solid orange; padding: 5px; display: inline-block; margin-left: 10px; margin-bottom: 10px;"> <u>ENSC 2141</u> Strengths Lab </div>
MATH 1813 OR ALEKS <div style="border: 1px solid orange; padding: 5px; display: inline-block; margin-left: 10px; margin-bottom: 10px;"> <u>MATH</u> <u>2144</u> Calc 1 </div> PHYS 2014 MATH 2153 ENSC 2213	MATH 2144 <div style="border: 1px solid orange; padding: 5px; display: inline-block; margin-left: 10px; margin-bottom: 10px;"> <u>MATH</u> <u>2153</u> Calc 2 </div> MATH 2163 MATH 2233 ENSC 2613 MAE 3333 IEM 3503	MATH 2153 <div style="border: 1px solid orange; padding: 5px; display: inline-block; margin-left: 10px; margin-bottom: 10px;"> <u>MATH</u> <u>2163</u> Calc 3 </div>	ENSC 2113 MATH 2153 ENGR2421 <div style="border: 1px solid orange; padding: 5px; display: inline-block; margin-left: 10px; margin-bottom: 10px;"> MAE 3333 Fluids </div> MAE3153 MAE 3233
<div style="border: 1px solid orange; padding: 5px; display: inline-block; margin-bottom: 10px;"> ¹ENGL <u>1113</u> Comp 1 </div> ENGL 1213	ENGL 1113 <div style="border: 1px solid orange; padding: 5px; display: inline-block; margin-left: 10px; margin-bottom: 10px;"> ¹ENGL <u>1213</u> Comp 2 </div>	MATH 2153 <div style="border: 1px solid orange; padding: 5px; display: inline-block; margin-left: 10px; margin-bottom: 10px;"> <u>MATH</u> <u>2233</u> Diff Eq </div> MAE 3293 MAE 3253 MAE 3013	Co/Pre MAE3333 <div style="border: 1px solid orange; padding: 5px; display: inline-block; margin-left: 10px; margin-bottom: 10px;"> ENSC 3231 Fluids Lab </div>
<div style="border: 1px solid orange; padding: 5px; display: inline-block; margin-bottom: 10px;"> 2S D/I </div>	<div style="border: 1px solid orange; padding: 5px; display: inline-block; margin-bottom: 10px;"> POLS 1113 Am Govt </div>	<div style="border: 1px solid orange; padding: 5px; display: inline-block; margin-bottom: 10px;"> <u>ENGR</u> <u>2421</u> Meas & Inst Lab </div> MAE 3333	MATH 2153 PHYS 2114 <div style="border: 1px solid orange; padding: 5px; display: inline-block; margin-left: 10px; margin-bottom: 10px;"> <u>ENSC</u> <u>2613</u> Circuits </div> MAE 3724
			ENSC2113 ENSC2213 ENSC2143 ENSC2123 <div style="border: 1px solid orange; padding: 5px; display: inline-block; margin-left: 10px; margin-bottom: 10px;"> MAE 3153 Intro ME Desigr </div> MAE 3324 MAE 3724 MAE 3524

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 2020-2021/Underlined on Flowchart). Grades of "C" or higher in all Upper Division Major Requirements courses. (footnote 2 on Degree Requirements Sheet 2020-2021/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 must meet the International Dimension (I) and 1 course must meet the Diversity (D) req't.

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Semester 5, 15 credit hours	Semester 6, 15 credit hours	Semester 7, 15 credit hours	Semester 8, 16 credit hours
MAE 3333 MAE 3233 Heat Trans CAT II MAE 3524	ENSC 2113 MAE 3324 Mech Des 1 CAT II ENSC 2143 ENSC 3313	Prereqs Vary by Course 3 MAE CAT I	MAE 3524 MAE 3324 4 MAE CAT II MAE 3724 ENGR2421 ENSC2141 ENSC3231
MATH 2233 MAE 3013 Engr Analysis MAE 3403 PHYS 2114 MAE 3724	MAE 3233 MAE 3524 Therm Fluid Des CAT II MAE 3153	Prereqs Vary by Course 5 MAE Elect	GEOL 3413 7 PETE 4313 Drilling MAE 3333
CHEM 1414 6 PETE 4303 Rocks & Fluids PETE 4343 PHYS 2114 PETE 4333 MAE 3333 MATH 2144 co-GEOL 3413	MAE 3013 MAE 3724 Sys Analysis CAT II MAE 3153 ENSC 2613	MATH 2153 IEM 3503 Engr Econ	GEOL 3413 7 GEOL 4323 Well Anlys
CHEM 1314, ENSC 3313 Mat Sci MAE 3324 1414 or 1515	MAE 3013 MAE 3403 Comp Meth ENGR 1412	2 H D/I	2 H D/I
MATH2153 6 GEOL 3413 PETE Geol GEOL 4323 PHYS2014 CHEM 1414 or 1515 co-PETE 4303		PETE 4303 6 PETE 4343 Well Test	ENSC 3233 7 PETE 4333 Prod Op PETE 4303

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 4003, 4243, 4263, 4703, 4713, 4723, 4353, 4363, 4513, 4623, 3033, 3123, 3253, 3293, 4053, 4063, 4313, 4273, 4333, 4583, 4733
6. Fall only classes: GEOL 3413, PETE 4303, PETE 4343
7. Spring only classes: GEOL 4323, PETE 4313, PETE 4333

