



OSU - College of Engineering, Architecture & Technology

Mechanical Engineering Pre-Professional School, 2019-2020

Petroleum Option

Semester 1, 17 credit hours	Semester 2, 14 credit hours	Semester 3, 16 credit hours	Semester 4, 18 credit hours
<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px; text-align: center;"> <u>ENGR</u> 1111 Intro to Engr </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 40%;"> College Chem, Min C- MATH 1513 </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <u>CHEM</u> 1414 For Engr </div> <div style="width: 40%;"> ENSC 2213 ENSC 3313 </div> </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px; text-align: center;"> <u>ENGR</u> 1332 CAD/SolidWorks </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 40%;"> Min C in MATH 1613 or 1715 OR ALEKS </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <u>MATH</u> 2144 Calc 1 </div> <div style="width: 40%;"> PHYS 2014 MATH 2153 ENSC 2213 </div> </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px; text-align: center;"> ¹ENGL 1113 Comp 1 </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 40%;"> ENGL 1213 </div> <div style="width: 40%;"> ENGL 1113 </div> </div> <div style="border: 1px solid black; padding: 5px; text-align: center; margin-top: 20px;"> ²S/D H/I </div>	<div style="display: flex; justify-content: space-between;"> <div style="width: 40%;"> ENGR 1412 VBA Prgm </div> <div style="width: 40%;"> MAE 3403 </div> </div> <div style="border: 1px solid black; padding: 5px; text-align: center; margin-top: 10px;"> HIST 1103 Am History </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="width: 40%;"> Min C in MATH 2144 </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <u>PHYS</u> 2014 Physics 1 </div> <div style="width: 40%;"> ENSC 2113 ENSC 2213 PHYS 2114 </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="width: 40%;"> Min C in MATH 2144 </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <u>MATH</u> 2153 Calc 2 </div> <div style="width: 40%;"> MATH 2163 MATH 2233 ENSC 2613 ENSC 3233 IEM 3503 </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="width: 40%;"> ENGL 1113 </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> ¹ENGL 1213 Comp 2 </div> </div>	<div style="display: flex; justify-content: space-between; margin-bottom: 10px;"> <div style="width: 40%;"> MATH 2144 PHYS 1114 or 2014 </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <u>ENSC</u> 2113 Statics </div> <div style="width: 40%;"> ENSC 2123 ENSC 2143 ENSC 3233 MAE 3324 </div> </div> <div style="display: flex; justify-content: space-between; margin-bottom: 10px;"> <div style="width: 40%;"> CHEM1314, 1414 or 1515 MATH 2144 PHYS 2014 </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <u>ENSC</u> 2213 Thermo </div> <div style="width: 40%;"> MAE 3293 </div> </div> <div style="display: flex; justify-content: space-between; margin-bottom: 10px;"> <div style="width: 40%;"> C or better in PHYS 2014 or 2314 </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <u>PHYS</u> 2114 Physics 2 </div> <div style="width: 40%;"> ENSC 2613 MAE 3013 </div> </div> <div style="display: flex; justify-content: space-between; margin-bottom: 10px;"> <div style="width: 40%;"> Min C in MATH 2153 </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <u>MATH</u> 2163 Calc 3 </div> </div> <div style="display: flex; justify-content: space-between; margin-bottom: 10px;"> <div style="width: 40%;"> Min C in MATH 2153 </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <u>MATH</u> 2233 Diff Eq </div> <div style="width: 40%;"> MAE 3293 MAE 3253 MAE 3013 </div> </div>	<div style="display: flex; justify-content: space-between; margin-bottom: 10px;"> <div style="width: 40%;"> ENSC 2113 </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <u>ENSC</u> 2123 Dynamics </div> <div style="width: 40%;"> MAE 3724 MAE 3113 </div> </div> <div style="display: flex; justify-content: space-between; margin-bottom: 10px;"> <div style="width: 40%;"> ENSC 2113 </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <u>ENSC</u> 2143 Strengths </div> <div style="width: 40%;"> MAE 3324 </div> </div> <div style="display: flex; justify-content: space-between; margin-bottom: 10px;"> <div style="width: 40%;"> ENSC 2113 MATH 2153 </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <u>ENSC</u> 3233 Fluids </div> <div style="width: 40%;"> MAE 3293 MAE 3233 </div> </div> <div style="display: flex; justify-content: space-between; margin-bottom: 10px;"> <div style="width: 40%;"> MATH 2153 PHYS 2114 </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <u>ENSC</u> 2613 Circuits </div> <div style="width: 40%;"> MAE 3724 MAE 3113 </div> </div> <div style="border: 1px solid black; padding: 5px; text-align: center; margin-bottom: 10px;"> POLS 1113 Am Govt </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> ²S/D H/I </div>

Summary of Professional School Admission Requirements: Complete a minimum of 60 credit hours of required courses. Complete all underlined courses. Make a C or better in all English Courses. Make a C or better in all required Technical Courses with a GPA of 3.0 or better in those courses. Complete a minimum of 12 hours at OSU with a GPA of 3.0 or better in all courses taken at OSU. Complete a minimum of 9 hours of required technical courses at OSU with a GPA of 3.0 or better in all required technical courses taken at OSU.

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) req't.



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Semester 5, 15 credit hours	Semester 6, 18 credit hours	Semester 7, 15 credit hours	Semester 8, 15 credit hours
Min C in ENSC 3233 <div style="border: 1px solid orange; padding: 5px; display: inline-block; margin: 5px;"> MAE 3233 Heat Trans </div> CAT II	Min C in MAE 3013, ENSC 2123, ENSC 2613 <div style="border: 1px solid orange; padding: 5px; display: inline-block; margin: 5px;"> MAE 3113 Meas & Instr </div> CAT II	Adm to PS & Prereqs Vary by Course <div style="border: 1px solid orange; padding: 5px; display: inline-block; margin: 5px;"> 3 MAE CAT I </div>	MAE 3113, MAE 3324, MAE 3724, MAE 3233 <div style="border: 1px solid orange; padding: 5px; display: inline-block; margin: 5px;"> 4 MAE CAT II </div>
Min C in MATH 2233, PHYS 2114 <div style="border: 1px solid orange; padding: 5px; display: inline-block; margin: 5px;"> MAE 3013 Engr Analysis </div> MAE 3113, MAE 3403, MAE 3724	Min C in ENSC 2213, ENSC 3233, co-MAE 3233 <div style="border: 1px solid orange; padding: 5px; display: inline-block; margin: 5px;"> MAE 3524 Therm Fluid Des </div> CAT II	Adm to PS & Prereqs Vary by Course <div style="border: 1px solid orange; padding: 5px; display: inline-block; margin: 5px;"> 5 MAE Elect </div>	GEOL 3413, ENSC 3233 <div style="border: 1px solid orange; padding: 5px; display: inline-block; margin: 5px;"> 7 PETE 4313 Drilling </div>
CHEM 1414, PHYS 2114, ENSC 3233, MATH 2144, co-GEOL 3413 <div style="border: 1px solid orange; padding: 5px; display: inline-block; margin: 5px;"> 6 PETE 4303 Rocks & Fluids </div> PETE 4343, PETE 4333	Min C in ENSC 2113, ENSC 2143, ENSC 3313 <div style="border: 1px solid orange; padding: 5px; display: inline-block; margin: 5px;"> MAE 3324 Mech Des 1 </div> CAT II	Min C in MATH 2153 <div style="border: 1px solid orange; padding: 5px; display: inline-block; margin: 5px;"> IEM 3503 Engr Econ </div>	Min C in GEOL 3413 <div style="border: 1px solid orange; padding: 5px; display: inline-block; margin: 5px;"> 7 GEOL 4323 Well Anlys </div>
Min C in CHEM 1314, 1414 or 1515 <div style="border: 1px solid orange; padding: 5px; display: inline-block; margin: 5px;"> ENSC 3313 Mat Sci </div> MAE 3324	Min C in MAE 3013, ENSC 2123, ENSC 2613 <div style="border: 1px solid orange; padding: 5px; display: inline-block; margin: 5px;"> MAE 3724 Sys Analysis </div> CAT II	<div style="border: 1px solid orange; padding: 5px; display: inline-block; margin: 5px;"> 2 S/D H/I </div>	<div style="border: 1px solid orange; padding: 5px; display: inline-block; margin: 5px;"> 2 S/D H/I </div>
CHEM 1314, 1414 or 1515, co-PETE 4303 <div style="border: 1px solid orange; padding: 5px; display: inline-block; margin: 5px;"> 6 GEOL 3413 PETE Geol </div> GEOL 4323	Min C in MAE 3013, ENGR 1412 <div style="border: 1px solid orange; padding: 5px; display: inline-block; margin: 5px;"> MAE 3403 Comp Meth </div>	PETE 4303 <div style="border: 1px solid orange; padding: 5px; display: inline-block; margin: 5px;"> 6 PETE 4343 Well Test </div>	ENSC 3233, PETE 4303 <div style="border: 1px solid orange; padding: 5px; display: inline-block; margin: 5px;"> 7 PETE 4333 Prod Op </div>

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 4243, 4263, 4703, 4713, 4353, 4363, 4513, 4623, 3033, 3123, 3223, 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

