



# OSU - College of Engineering, Architecture & Technology

## Mechanical Engineering Pre-Professional School, 2019-2020

Semester 1, 17 credit hours	Semester 2, 14 credit hours	Semester 3, 16 credit hours	Semester 4, 15 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 1813 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;"> <sup>1</sup>ENGL 1113 Comp 1         </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 40%;">           ENGL 1213         </div> </div> <div style="border: 1px solid black; padding: 5px; text-align: center; margin-top: 10px;"> <sup>2</sup>S/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; margin-bottom: 10px; text-align: center;">           HIST 1103 Am History         </div> <div style="display: flex; justify-content: space-between;"> <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;"> <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;"> <div style="width: 40%;">           ENGL 1113         </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <sup>1</sup>ENGL 1213 Comp 2         </div> </div>	<div style="display: flex; justify-content: space-between;"> <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 3323         </div> </div> <div style="display: flex; justify-content: space-between;"> <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;"> <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;"> <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;"> <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;"> <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;"> <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;"> <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 3523         </div> </div> <div style="display: flex; justify-content: space-between;"> <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-top: 10px;">           POLS 1113 Am Govt         </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.



# OSU - College of Engineering, Architecture & Technology

## Mechanical Engineering Professional School, 2019-2020

Semester 5, 16 credit hours	Semester 6, 14 credit hours	Semester 7, 13 credit hours	Semester 8, 15 credit hours
Min C in ENSC 3233 <div style="border: 1px solid orange; padding: 5px; display: inline-block; text-align: center;"> <b>MAE 3233</b> 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; text-align: center;"> <b>MAE 3113</b> Meas &amp; Instr         </div> CAT II	Adm to PS & Prereqs Vary by Course <div style="border: 1px solid orange; padding: 5px; display: inline-block; text-align: center;"> <b>4 MAE CAT I</b> </div>	Adm to PS & MAE 3113, MAE 3324, MAE 3233, MAE 3724 <div style="border: 1px solid orange; padding: 5px; display: inline-block; text-align: center;"> <b>5 MAE CAT II</b> </div>
Min C in MATH 2233, PHYS 2114 <div style="border: 1px solid orange; padding: 5px; display: inline-block; text-align: center;"> <b>MAE 3013</b> Engr Analysis         </div> MAE 3113, MAE 3403, MAE 3724	Min C in MAE 3013, ENSC 2123, ENSC 2613 <div style="border: 1px solid orange; padding: 5px; display: inline-block; text-align: center;"> <b>MAE 3724</b> Sys Analysis         </div> CAT II	Adm to PS & Prereqs Vary by Course <div style="border: 1px solid orange; padding: 5px; display: inline-block; text-align: center;"> <b>6 MAE Elect</b> </div>	Adm to PS & Prereqs Vary by Course <div style="border: 1px solid orange; padding: 5px; display: inline-block; text-align: center;"> <b>6 MAE Elect</b> </div>
Min C in MATH 2153 <div style="border: 1px solid orange; padding: 5px; display: inline-block; text-align: center;"> <b>IEM 3503</b> Engr Econ         </div>	Min C in ENSC 2113, ENSC 2143, ENSC 3313 <div style="border: 1px solid orange; padding: 5px; display: inline-block; text-align: center;"> <b>MAE 3324</b> Mech Des 1         </div> CAT II	Adm to PS & Prereqs Vary by Course <div style="border: 1px solid orange; padding: 5px; display: inline-block; text-align: center;"> <b>7 Tech Elect</b> </div>	<div style="border: 1px solid orange; padding: 5px; display: inline-block; text-align: center;"> <b>2 S/D H/I</b> </div>
Min C in CHEM 1314, 1414 or 1515 <div style="border: 1px solid orange; padding: 5px; display: inline-block; text-align: center;"> <b>ENSC 3313</b> Mat Sci         </div> MAE 3324	Min C in MAE 3013, ENGR 1412 <div style="border: 1px solid orange; padding: 5px; display: inline-block; text-align: center;"> <b>MAE 3403</b> Comp Meth         </div>	<div style="border: 1px solid orange; padding: 5px; display: inline-block; text-align: center;"> <b>3 Basic Science</b> </div>	<div style="border: 1px solid orange; padding: 5px; display: inline-block; text-align: center;"> <b>2 S/D H/I</b> </div>
Min C in ENSC 2213, ENSC 3233, co-MAE 3233 <div style="border: 1px solid orange; padding: 5px; display: inline-block; text-align: center;"> <b>MAE 3524</b> Therm Fluid Des         </div> CAT II			<div style="border: 1px solid orange; padding: 5px; display: inline-block; text-align: center;"> <b>2 S/D H/I</b> </div>

3. Basic Science Elective: select from ASTR 1013, 1023, BIOL 1114, CHEM 3053, GEOL 1114, 3413, PHYS 3213, 3313, 3713 (see Catalog for Prerequisites).
4. Category I - MAE 4243, 4263, 4703, 4713, 4353, 4363, 4513, or 4623 (See Catalog for Prerequisites).
5. Category II - MAE 4344 or MAE 4354 (See Catalog for Prerequisites).
6. MAE Elective (6 hours) - MAE 4243, 4263, 4703, 4713, 4353, 4363, 4513, 4623, 3033, 3123, 3223, 3253, 3293, 4053, 4063, 4313, 4273, 4333, 4583, 4733
7. Technical Elective - 3000 or above in BAE/CHE/CIVE/ECEN/IEM/PETE/BIOL/BIOC/CHEM/CS/LSB/GEOL/PHYS, BCOM 3233, MATH 3303, MGMT 3133, PHIL 3803, PHIL 3833. 4000 or above in MATH/MET/STAT, MGMT 4073, MGMT4533, ECON 4113

Note: Basic Science Elective is not included in the PS/Major GPA

