

OSU - College of Engineering, Architecture & Technology

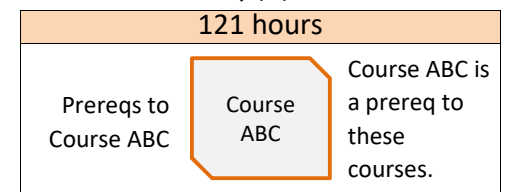
REFER TO THE CATALOG TO CONFIRM
PREREQUISITE COURSES

Mechanical Engineering, 2022-2023

Semester 1, 17 credit hours	Semester 2, 16 credit hours	Semester 3, 16 credit hours	Semester 4, 14 credit hours
<div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; text-align: center;"> <u>ENGR</u> <u>1111</u> Intro to Engr </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 40%;"> MATH 1513 ALEKS >=56 </div> <div style="width: 40%; border: 1px solid orange; padding: 5px; text-align: center;"> <u>CHEM</u> <u>1414 or 1515</u> Chem for <u>ENGR</u> </div> <div style="width: 20%; text-align: right;"> ENSC 2213 ENSC 3313 </div> </div> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; text-align: center;"> <u>ENGR</u> <u>1332</u> CAD/SolidWorks </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 40%;"> MATH 1813 ALEKS >=75 </div> <div style="width: 40%; border: 1px solid orange; padding: 5px; text-align: center;"> <u>MATH</u> <u>2144</u> <u>CALC 1</u> </div> <div style="width: 20%; text-align: right;"> MATH 2153 PHYS 2014 ENSC 2113 ENSC 2213 </div> </div> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; text-align: center;"> <u>1ENGL</u> <u>1113</u> <u>COMP 1</u> </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 40%;"></div> <div style="width: 20%; text-align: right;"> 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;"> <u>ENGR</u> <u>1412</u> Intro Eng Computer Prgm </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 40%;"></div> <div style="width: 20%; text-align: right;"> MAE 3403 </div> </div> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; text-align: center;"> HIST 1103 or 1483 or 1493 Am History </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;"> <u>PHYS</u> <u>2014</u> Physics 1 </div> <div style="width: 20%; text-align: right;"> 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;"> <u>MATH</u> <u>2153</u> <u>Calc 2</u> </div> <div style="width: 20%; text-align: right;"> 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;"> <u>1ENGL</u> <u>1213</u> <u>Comp 2</u> </div> <div style="width: 20%; text-align: right;"> MAE 3013 </div> </div> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; text-align: center;"> <u>ENGR</u> <u>2421</u> Data Acq Ctrl Lab </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 40%;"></div> <div style="width: 20%; text-align: right;"> MAE 3333^{cc} 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;"> <u>ENSC</u> <u>2113</u> <u>Statics</u> </div> <div style="width: 20%; text-align: right;"> ENSC 2123 ENSC 2143 MAE 3333 MAE 3153 </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;"> <u>ENSC</u> <u>2213</u> <u>Thermo</u> </div> <div style="width: 20%; text-align: right;"> MAE 3153 </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;"> <u>PHYS</u> <u>2114</u> Physics 2 </div> <div style="width: 20%; text-align: right;"> ENSC 2613 </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;"> <u>MATH</u> <u>2163</u> <u>Calc 3</u> </div> <div style="width: 20%; text-align: right;"> MAE 3013 </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;"> <u>MATH</u> <u>2233</u> <u>Diff Eq</u> </div> <div style="width: 20%; text-align: right;"> MAE 3013 </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;"> <u>ENSC</u> <u>2123</u> <u>Dynamics</u> </div> <div style="width: 20%; text-align: right;"> MAE 3153^{cc} </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;"> <u>ENSC</u> <u>2143</u> <u>Strengths</u> </div> <div style="width: 20%; text-align: right;"> MAE 3153^{cc} </div> </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 40%;"> ENSC 2143^{cc} </div> <div style="width: 40%; border: 1px dashed orange; padding: 5px; text-align: center;"> ⁸ENSC 2141 <u>Strengths Lab</u> </div> <div style="width: 20%; text-align: right;"> MAE CAT II </div> </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 40%;"> ENSC 2113 MATH 2153 ENGR 2421^{cc} </div> <div style="width: 40%; border: 1px solid orange; padding: 5px; text-align: center;"> MAE 3333 Fluids </div> <div style="width: 20%; text-align: right;"> MAE 3233^{cc} MAE 3153^{cc} </div> </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 40%;"> MAE 3333^{cc} </div> <div style="width: 40%; border: 1px dashed orange; padding: 5px; text-align: center;"> ⁸ENSC 3231 <u>Fluids Lab</u> </div> <div style="width: 20%; text-align: right;"> MAE CAT II </div> </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 40%;"> MATH 2153 PHYS 2114 </div> <div style="width: 40%; border: 1px solid orange; padding: 5px; text-align: center;"> <u>ENSC</u> <u>2613</u> <u>Circuits</u> </div> <div style="width: 20%; text-align: right;"> MAE 3724 </div> </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 40%;"> ENSC 2613^{cc} </div> <div style="width: 40%; border: 1px dashed orange; padding: 5px; text-align: center;"> ⁸ENSC 2411 <u>Circuits Lab</u> </div> <div style="width: 20%; text-align: right;"> MAE CAT II </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.



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Mechanical Engineering, 2022-2023

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PREREQUISITE COURSES

Semester 5, 15 credit hours	Semester 6, 15 credit hours	Semester 7, 16 credit hours	Semester 8, 13 credit hours
MAE 3333 ^{CC} MAE 3233 Heat Trans MAE3524 MATH 2233 MAE 3013 Engr Analysis MAE 3403 PHYS 2014 MAE 3724 ENSC 2113 MAE 3153 Intro ME Design MAE 3324 ENSC 2213 MAE 3524 ENSC 2123 ^{CC} ENSC 2143 ^{CC} MAE 3333 ^{CC} CHEM, ENSC 3313 Materials Science MAE 3324 1314, 1414 or 1515 ENSC 3313 ^{CC} 8 ENSC 3311 Mat Sci Lab MAE CAT II MATH 2153 IEM 3503 Engr Econ	MAE 3153 MAE 3524 Thermal Fluid Design MAE CAT II MAE 3233 ENGR 2421 MAE 3724 Sys Analysis and Control MAE CAT II ENSC 2613 MAE 3013 MAE 3153 MAE 3324 Mech Des 1 MAE CAT II ENSC 3313 MAE 3013 MAE 3403 Comp Meth ENGR 1412	Prereqs Vary by Course 4 MAE CAT I Prereqs Vary by Course 6 MAE Elect Prereqs Vary by Course 7 Tech Elect 3 Basic Science 2 Social & Behavioral Sciences (S) D or I	MAE 3524 5 MAE CAT II MAE 3324 MAE 3724 ENGR2421 See notes 5 and 8 Prereqs Vary by Course 6 MAE Elect 2 Humanities (H) D or I 2 Humanities (H) D or I

- Basic Science Elective: select from ASTR 1013, 1023, BIOL 1113, CHEM 3053, GEOL 1114, 3413, PHYS 3213, 3313, 3713 (see Catalog for Prerequisites).
- Category I - MAE 4243, 4263, 4353, 4363, 4513, 4623, 4703, 4713, or 4723 (See Catalog for Prerequisites). For AERS dual degree CAT I is equal to MAE 4243 or 4513.
- Category II - MAE 4344 or MAE 4354 (See Catalog for Prerequisites).
- MAE Elective (6 hours) - MAE 3033, 3123, 3223, 3253, 3293, 4003, 4053, 4063, 4273, 4313, 4333, 4583, 4733 or courses in the Category I listed above, but not used to satisfy the category requirement.
- 3 hours of technical elective to be selected from the following list (or from courses in the Category I listed above, but not used to satisfy the category requirement): BCOM 3223, ENGR 3030, MATH 3303, MGMT 3113, PHIL 3803, PHIL 3833 or 3000 Level or above from subject options BAE, BIOL, CHE, CHEM, CIVE, CS, ECEN, IEM, GOEL, LSB, MAE, PETE, or PHYS. ECON 4113, ENGR 4030, ENGR 4403, MGMT 4073, MGMT 4533 or 4000 level from subject options MATH, MET, or STAT.
- 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

121 hours		
Prereqs to Course ABC	Course ABC	Course ABC is a prereq to these courses.

For Reference Only