

OSU - College of Engineering, Architecture & Technology

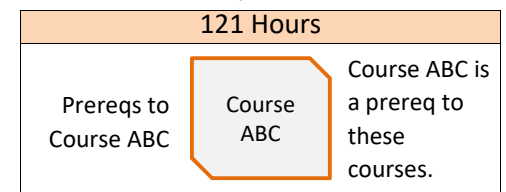
REFER TO THE CATALOG TO CONFIRM
PREREQUISITE COURSES

Mechanical Engineering, 2023-2024

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 black; padding: 5px; margin-bottom: 10px;"> <u>ENGR 1111</u> Intro to Engr </div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <u>ENGR 1412</u> Intro Eng Computer Prgm </div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> MATH 2144 PHYS 2014 </div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <div style="border: 1px solid black; padding: 5px; display: inline-block;"> <u>ENSC 2113</u> Dynamics </div> MAE 3403 MAE 3724 </div>
MATH 1513 ALEKS >=56	<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> HIST 1103 or 1483 or 1493 Am History </div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> CHEM 1314, 1414, or 1515 MATH 2144 PHYS 2014 </div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <div style="border: 1px solid black; padding: 5px; display: inline-block;"> <u>ENSC 2113</u> Strengths </div> MAE 3324 </div>
<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <u>ENGR 1332</u> CAD/SolidWorks </div>	MATH 2144	<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> PHYS 2014 </div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <div style="border: 1px solid black; padding: 5px; display: inline-block;"> <u>ENSC 2113</u> 2143 </div> MAE 3153_{cc} </div>
MATH 1813 ALEKS >=75	<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> PHYS 2014 Physics 1 </div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> PHYS 2114 Physics 2 </div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> ENSC 2113 MATH 2153 ENGR 2421_{cc} </div>
<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <u>MATH 2144</u> Calc 1 </div>	MATH 2144	<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> MATH 2163 MATH 2233 </div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <div style="border: 1px solid black; padding: 5px; display: inline-block;"> <u>ENSC 3313</u> Materials Science </div> MAE 3233_{cc} MAE 3524 </div>
<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> ¹ENGL 1113 Comp 1 </div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <u>MATH 2153</u> Calc 2 </div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> MATH 2153 </div>	CHEM, 1314, 1414 or 1515
<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> POLS 1113 Am Govt </div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> ¹ENGL 1213 Comp 2 </div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <u>MATH 2233</u> Diff Eq </div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> See note 8 </div>
	<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <u>ENGR 2421</u> Data Acq Ctrl Lab </div>	MATH 2153	<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <div style="border: 1px solid black; padding: 5px; display: inline-block;"> <u>Engineering Science Laboratory</u> </div> MAE CAT II Various Electives </div>
	MAE 3333 _{cc} MAE 3724 MAE CAT II	MAE 3013	See note 8
			<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <div style="border: 1px solid black; padding: 5px; display: inline-block;"> <u>Engineering Science Laboratory</u> </div> MAE CAT II Various Electives </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 2023-2024/Underlined on Flowchart). Grades of "C" or higher in all Upper Division Major Requirements courses. (footnote 2 on Degree Requirements Sheet 2023-2024/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.



OSU - College of Engineering, Architecture & Technology

Mechanical Engineering, 2023-2024

REFER TO THE CATALOG TO CONFIRM
PREREQUISITE COURSES

Semester 5, 15 credit hours	Semester 6, 15 credit hours	Semester 7, 15 credit hours	Semester 8, 13 credit hours
<p>MAE 3333_{cc} MAE 3233 MAE 3524 Heat Transfer</p> <p>ENSC 2113_{cc} MAE 3153 MAE 3324 ENSC 2213_{cc} Intro ME Design MAE 3524</p> <p>MATH 2233 MAE 3013 MAE 3403 PHYS 2014 Engr Analysis MAE 3724</p> <p>MATH 2153 ENSC 2613 MAE 3724 PHYS 2114 Circuits</p> <p>MATH 2153 IEM 3503 Engr Econ</p>	<p>ENSC 2213 MAE 3524 MAE CAT II MAE 3153 Thermal Fluids Various Electives MAE 3333 Design MAE 3233</p> <p>MAE 3153 MAE 3324 MAE CAT II ENSC 3313 Mech Des 1 Various Electives</p> <p>ENGR 2421 MAE 3724 MAE 3403_{cc} ENSC 2123 Sys Analysis MAE CAT II ENSC 2613 and Control Various Electives MAE 3013</p> <p>ENGR 1412 MAE 3403 Various Electives ENSC 2123 Comp Meth MAE 3013 MAE 3724_{cc}</p>	<p>Prereqs Vary by Course 4 MAE CAT I Elective</p> <p>Prereqs Vary by Course 6 MAE Elect</p> <p>Prereqs Vary by Course 7 Tech Elect</p> <p>3 Basic Science</p> <p>2 Social & Behavioral Sciences (S) D or I</p>	<p>MAE 3524 5 MAE CAT II MAE 3324 Senior Design MAE 3724 Project ENGR2421 See notes 5 and 8</p> <p>Prereqs Vary by Course 6 MAE Elect</p> <p>2 Humanities (H) D or I</p> <p>2 Humanities (H) D or I</p>

3. Basic Science Elective: select from ASTR 1013, 1023, BIOL 1113, CHEM 3053, GEOL 1114, 3413, PHYS 3213, 3313, 3713 (see Catalog for Prerequisites).
4. Category (CAT) 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.
5. Category (CAT) II - MAE 4344 or MAE 4354 (See Catalog for Prerequisites).
6. MAE Elective (6 hours) - MAE 3033, 3123, 3223, 3253, 3293, 4003, 4010, 4053, 4063, 4273, 4313, 4333, 4583, 4733 or courses in the Category I listed above, but not used to satisfy the category requirement.
7. 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): ENGR 3030, MATH 3583 or 3000 Level or above from subject options BAE, BIOL, CHE, CHEM, CIVE, CS, ECEN, IEM, GEOL, LSB, MAE, PETE, or PHYS. ECON 4113, ENGR 4030, ENGR 4403, or 4000 level from subject options MATH, MET, or STAT.
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 2611, ENSC 3231, ENSC 3311, or ENSC 3431.
Each course can be taken concurrently or after its corresponding course in any semester before MAE CAT II (MAE 4344 or MAE 4354)

