

# OSU - College of Engineering, Architecture & Technology

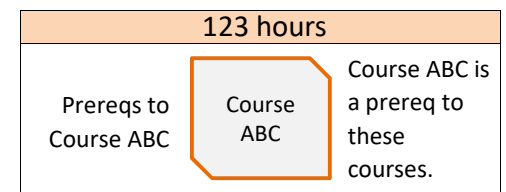
REFER TO THE CATALOG TO  
CONFIRM PREREQUISITE COURSES

## Aerospace 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 orange; 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="text-align: left;">MATH 1513 ALEKS &gt;=56</div> <div style="border: 1px solid orange; padding: 5px; text-align: center;"> <u>CHEM</u> 1414 Chem for Engineers                 </div> <div style="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> 1332 CAD/SolidWorks                 </div> <div style="display: flex; justify-content: space-between;"> <div style="text-align: left;">MATH 1813 ALEKS &gt;=75</div> <div style="border: 1px solid orange; padding: 5px; text-align: center;"> <u>MATH</u> 2144 Calc 1                 </div> <div style="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;"> <sup>1</sup>ENGL 1113 Comp 1                 </div> <div style="display: flex; justify-content: space-between;"> <div></div> <div style="text-align: right;">ENGL 1213</div> </div> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; 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> 1412 Intro Eng Computer Prgrm                 </div> <div style="display: flex; justify-content: space-between;"> <div></div> <div style="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="border: 1px solid orange; padding: 5px; margin-bottom: 10px; text-align: center;"> <u>PHYS</u> 2014 Physics 1                 </div> <div style="display: flex; justify-content: space-between;"> <div style="text-align: left;">MATH 2144</div> <div style="text-align: right;">ENSC 2113 ENSC 2213 PHYS 2114 MAE 3013</div> </div> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; text-align: center;"> <u>MATH</u> 2153 Calc 2                 </div> <div style="display: flex; justify-content: space-between;"> <div style="text-align: left;">MATH 2144</div> <div style="text-align: right;">MATH 2163 MATH 2233 ENSC 2613 MAE 3333 IEM 3503</div> </div> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; text-align: center;"> <sup>1</sup>ENGL 1213 Comp 2                 </div> <div style="display: flex; justify-content: space-between;"> <div style="text-align: left;">ENGL 1113</div> <div style="text-align: right;">ENGL 1213</div> </div> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; text-align: center;"> <sup>6</sup>ENGR 2421 Data Acq Ctrl Lab                 </div> <div style="display: flex; justify-content: space-between;"> <div></div> <div style="text-align: right;">MAE 3333<sub>cc</sub> MAE 3724 MAE 4223 MAE 4374</div> </div>	<div style="display: flex; justify-content: space-between;"> <div style="text-align: left;">MATH 2144 PHYS 2014</div> <div style="border: 1px solid orange; padding: 5px; text-align: center;"> <u>ENSC</u> 2113 Statics                 </div> <div style="text-align: right;">ENSC 2123 ENSC 2143 MAE 3333 MAE 3153<sub>cc</sub></div> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="text-align: left;">CHEM 1314, 1414, or 1515 MATH 2144 PHYS 2014</div> <div style="border: 1px solid orange; padding: 5px; text-align: center;"> <u>ENSC</u> 2213 Thermo                 </div> <div style="text-align: right;">MAE 3153<sub>cc</sub></div> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="text-align: left;">PHYS 2014</div> <div style="border: 1px solid orange; padding: 5px; text-align: center;"> <u>PHYS</u> 2114 Physics 2                 </div> <div style="text-align: right;">ENSC 2613</div> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="text-align: left;">MATH2153</div> <div style="border: 1px solid orange; padding: 5px; text-align: center;"> <u>MATH</u> 2163 Calc 3                 </div> <div></div> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="text-align: left;">MATH2153</div> <div style="border: 1px solid orange; padding: 5px; text-align: center;"> <u>MATH</u> 2233 Diff Eq                 </div> <div style="text-align: right;">MAE 3013 MAE 3293 MAE 3253</div> </div>	<div style="display: flex; justify-content: space-between; margin-bottom: 10px;"> <div style="text-align: left;">ENSC 2113</div> <div style="border: 1px solid orange; padding: 5px; text-align: center;"> <u>ENSC</u> 2123 Dynamics                 </div> <div style="text-align: right;">MAE 3403 MAE 3724</div> </div> <div style="display: flex; justify-content: space-between; margin-bottom: 10px;"> <div style="text-align: left;">ENSC 2113</div> <div style="border: 1px solid orange; padding: 5px; text-align: center;"> <u>ENSC</u> 2143 Strengths                 </div> <div style="text-align: right;">MAE 3324</div> </div> <div style="display: flex; justify-content: space-between; margin-bottom: 10px;"> <div style="text-align: left;">ENSC 2113 MATH 2153 ENGR 2421<sub>cc</sub></div> <div style="border: 1px solid orange; padding: 5px; text-align: center;">                     MAE 3333 Fluids                 </div> <div style="text-align: right;">MAE 3293 MAE 3233<sub>cc</sub></div> </div> <div style="display: flex; justify-content: space-between; margin-bottom: 10px;"> <div style="text-align: left;">ENSC 2113<sub>cc</sub> ENSC 2213<sub>cc</sub></div> <div style="border: 1px solid orange; padding: 5px; text-align: center;">                     MAE 3153 Intro ME Design                 </div> <div style="text-align: right;">MAE 3324 MAE 4243 MAE 3524</div> </div> <div style="display: flex; justify-content: space-between; margin-bottom: 10px;"> <div style="text-align: left;">See note 6</div> <div style="border: 1px solid orange; padding: 5px; text-align: center;"> <u>Engineering</u> Science Laboratory                 </div> <div style="text-align: right;">MAE 4374</div> </div> <div style="display: flex; justify-content: space-between;"> <div style="text-align: left;">See note 6</div> <div style="border: 1px solid orange; padding: 5px; text-align: center;"> <u>Engineering</u> Science Laboratory                 </div> <div style="text-align: right;">MAE 4374</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 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.



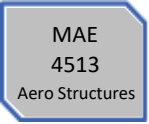




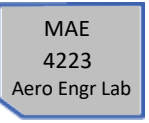


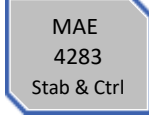
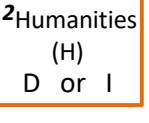
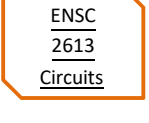
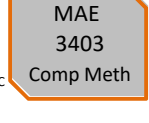

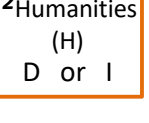
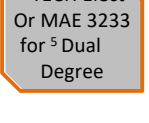
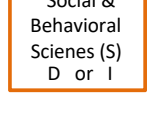
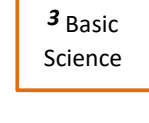
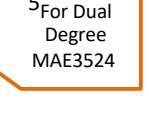
1. If a 'B' or better is earned in ENGL 1113 or 1313, ENGL 3323 may be substituted for ENGL 1213 or 1413 (per Academic Regulation 3.5).
2. Min 6 hrs (H) and 3 hrs (S). Of these hours, 1 course should meet the International Dimension (I) and 1 course should meet the Diversity (D) to efficiently meet university general education requirements.



# OSU - College of Engineering, Architecture & Technology

## Aerospace Engineering, 2023-2024

The Aerospace Course Sequence is outlined in Blue\*

Semester 5, 15 credit hours	Semester 6, 17 credit hours	Semester 7, 15 credit hours	Semester 8, 13 credit hours
MATH 2233 MAE 3333  MAE 3253 MAE 4243	MATH 2233 MAE 3293  MAE 4283 MAE 4223 MAE 4513	MAE 3324 MAE 3403 MAE 3253  MAE 4374	MAE 4243 MAE 4283 MAE 4513 ENGR 2421 See note 6 
CHEM, 1314, 1414 or 1515  MAE 3324	MAE 3153 ENSC 3313 ENSC 2143  MAE 4513	MAE 3153 MAE 3293  MAE 4374	MAE 3253 MAE 4283 ENGR 2421 
MATH 2233 PHYS 2014  MAE 3724 MAE 3403	ENGR 2421 ENSC 2123 ENSC 2613 MAE 3013  MAE 3403 <sub>cc</sub> MAE 4283	MAE 3253 MAE 3724  MAE 4374 MAE 4223	
MATH 2153 PHYS 2114  MAE 3724	ENGR 1412 ENSC 2123 MAE 3013 MAE 3724 <sub>cc</sub>  MAE 4513	MATH 2153 	
MAE 3333 <sub>cc</sub>  MAE 3524			ENSC 2213 MAE 3153 MAE 3233 MAE 3333 
<b>*Fall Only:</b> MAE 3293, MAE 4243, MAE 4283, MAE 4513	<b>*Spring Only:</b> MAE 3253, MAE 4223, MAE 4374		

- Basic Science Elective: select from ASTR 1013, 1023, BIOL 1113, CHEM 3053, GEOL 1114, 3413, PHYS 3213, 3313, 3713 (see Catalog for Prerequisites).
- 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.
- For students pursuing the Dual Aerospace and Mechanical Engineering degrees, MAE 3233 will count toward the TECH Elective requirement, MAE 3524 is taken as an additional course, and MAE 4374 will count toward the MEEN CAT II Requirement. A "C" or better is required in these courses to meet Mechanical Engineering Degree Requirements 2023-2024.
- 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 4374.

