

OSU - College of Engineering, Architecture & Technology

REFER TO THE CATALOG TO
CONFIRM PREREQUISITE COURSES

Aerospace Engineering, 2024-2025

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; display: inline-block;"> UNIV 1111 <u>First Yr Seminar</u> </div> <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: left;">MATH 1513 ALEKS >=56</div> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; display: inline-block;"> CHEM 1414 <u>Chem for Engineers</u> </div> <div style="text-align: right;">ENSC 2213 ENSC 3313</div> </div> <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: left;">MATH 1813 ALEKS >=75</div> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; display: inline-block;"> ENGR 1332 <u>CAD/SolidWorks For MAE</u> </div> <div style="text-align: right;">MATH 2153 PHYS 2014 ENSC 2113 ENSC 2213</div> </div> <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: left;">MATH 2144</div> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; display: inline-block;"> ENGR 1412 <u>Intro Eng Computer Prgrm</u> </div> <div style="text-align: right;">MAE 3403</div> </div> <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: left;">MATH 2144</div> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; display: inline-block;"> HIST 1103 or 1483 or 1493 <u>Am History</u> </div> <div style="text-align: right;">ENSC 2113 ENSC 2213 PHYS 2114 MAE 3013</div> </div> <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: left;">MATH 2144</div> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; display: inline-block;"> PHYS 2014 <u>Physics 1</u> </div> <div style="text-align: right;">MATH 2163 MATH 2233 ENSC 2613 MAE 3333 IEM 3503</div> </div> <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: left;">ENGL 1113</div> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; display: inline-block;"> ENGL 1113 <u>Comp 1</u> </div> <div style="text-align: right;">ENGL 1213</div> </div> <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: left;">ENGL 1113</div> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; display: inline-block;"> ENGL 1213 <u>Comp 2</u> </div> <div style="text-align: right;">MAE 3333_{cc} MAE 3724 MAE 4223 MAE 4374</div> </div> <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: left;">MATH 2144</div> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; display: inline-block;"> MATH 2144 <u>Calc 1</u> </div> <div style="text-align: right;">MATH 2153 PHYS 2014 ENSC 2113 ENSC 2213</div> </div> <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: left;">MATH 2153</div> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; display: inline-block;"> MATH 2153 <u>Calc 2</u> </div> <div style="text-align: right;">MATH 2163 MATH 2233 ENSC 2613 MAE 3333 IEM 3503</div> </div> <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: left;">MATH 2153</div> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; display: inline-block;"> MATH 2153 <u>Calc 3</u> </div> <div style="text-align: right;">MATH 2153 ENGL 1213</div> </div> <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: left;">MATH 2153</div> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; display: inline-block;"> MATH 2233 <u>Diff Eq</u> </div> <div style="text-align: right;">MAE 3013 MAE 3293 MAE 3253</div> </div> <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: left;">MATH 2144</div> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; display: inline-block;"> ENGR 1412 <u>Intro Eng Computer Prgrm</u> </div> <div style="text-align: right;">MAE 3403</div> </div> <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: left;">MATH 2144</div> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; display: inline-block;"> HIST 1103 or 1483 or 1493 <u>Am History</u> </div> <div style="text-align: right;">ENSC 2113 ENSC 2213 PHYS 2114 MAE 3013</div> </div> <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: left;">MATH 2144</div> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; display: inline-block;"> PHYS 2014 <u>Physics 1</u> </div> <div style="text-align: right;">ENSC 2113 ENSC 2213 PHYS 2114 MAE 3013</div> </div> <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: left;">ENGL 1113</div> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; display: inline-block;"> ENGL 1113 <u>Comp 1</u> </div> <div style="text-align: right;">ENGL 1213</div> </div> <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: left;">ENGL 1113</div> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; display: inline-block;"> ENGL 1213 <u>Comp 2</u> </div> <div style="text-align: right;">MAE 3333_{cc} MAE 3724 MAE 4223 MAE 4374</div> </div> <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: left;">MATH 2144</div> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; display: inline-block;"> MATH 2144 <u>Calc 1</u> </div> <div style="text-align: right;">MATH 2153 PHYS 2014 ENSC 2113 ENSC 2213</div> </div> <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: left;">MATH 2153</div> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; display: inline-block;"> MATH 2153 <u>Calc 2</u> </div> <div style="text-align: right;">MATH 2163 MATH 2233 ENSC 2613 MAE 3333 IEM 3503</div> </div> <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: left;">MATH 2153</div> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; display: inline-block;"> MATH 2153 <u>Calc 3</u> </div> <div style="text-align: right;">MATH 2153 ENGL 1213</div> </div> <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: left;">MATH 2153</div> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; display: inline-block;"> MATH 2233 <u>Diff Eq</u> </div> <div style="text-align: right;">MAE 3013 MAE 3293 MAE 3253</div> </div> <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: left;">ENSC 2113</div> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; display: inline-block;"> ENSC 2113 <u>Dynamics</u> </div> <div style="text-align: right;">MAE 3403 MAE 3724</div> </div> <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: left;">ENSC 2113</div> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; display: inline-block;"> ENSC 2143 <u>Strengths</u> </div> <div style="text-align: right;">MAE 3324</div> </div> <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: left;">ENSC 2113 MATH 2153 ENGR 2421_{cc}</div> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; display: inline-block; background-color: #D9D9D9;"> MAE 3333 <u>Fluids</u> </div> <div style="text-align: right;">MAE 3293 MAE 3233_{cc}</div> </div> <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: left;">ENSC 2113_{cc} ENSC 2213_{cc}</div> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; display: inline-block; background-color: #D9D9D9;"> MAE 3153 <u>Intro ME Design</u> </div> <div style="text-align: right;">MAE 3324 MAE 4243 MAE 3524</div> </div> <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: left;">See note 2</div> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; display: inline-block;"> Engineering Science <u>Laboratory</u> </div> <div style="text-align: right;">MAE 4374</div> </div> <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: left;">See note 2</div> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; display: inline-block;"> Engineering Science <u>Laboratory</u> </div> <div style="text-align: right;">MAE 4374</div> </div>			

Summary of Graduation and School Requirements: Please consult Degree Requirements published in official University Catalog for specific course letter grade requirements Graduation Requirements.

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. In order to fulfill the ENSC Lab requirement you must complete ENGR 2421 and select two labs from list found on published Degree Requirements in University Catalog.

123 hours		
Required for Course ABC	<div style="border: 1px solid orange; padding: 5px; display: inline-block;"> Course ABC </div>	Course ABC is required for the following courses

OSU - College of Engineering, Architecture & Technology

Aerospace Engineering, 2024-2025

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 3293 Fund of Aero*	MATH 2233 MAE 3293 MAE 3253 Applied Aero*	MAE 3324 MAE 3403 MAE 3253 MAE 4513 Aero Structures*	MAE 4243 MAE 4283 MAE 4513 ENGR 2421 See note 6 MAE 4374 Aerospace Sys Design*
#=- U 1314, 1414, or 1515 ENSC 3313 Materials Science	MAE 3153 ENSC 3313 ENSC 2143 MAE 3324 Mech Des 1	MAE 3153 MAE 3293 MAE 4243 Prop & Power*	MAE 3253 MAE 4283 ENGR 2421 MAE 4223 Aero Engr Lab*
MATH 2233 PHYS 2014 MAE 3013 Engr Analysis	ENGR 2421 ENSC 2123 ENSC 2613 MAE 3013 MAE 3724 Systems Analysis	MAE 3253 MAE 3724 MAE 4283 Stab & Ctrl*	6 Humanities (H)
MATH 2153 ENSC 2613 Circuits	ENGR 1412 ENSC 2123 MAE 3013 MAE 3724 _{cc} MAE 3403 Computer Methods	MATH 2153 IEM 3503 Engr Econ	6 Humanities (H)
MAE 3333 _{cc} 4 TECH Elect Or 5 MAE 3233 for Dual Degree	6 Social & Behavioral Sciences (S)	3 Basic Science	ENSC 2213 MAE 3153 MAE 3233 MAE 3333 5 For Dual Degree MAE3524

- 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)
- In order to fulfill the ENSC Lab requirement you must complete ENGR 2421 and select two labs from list found on published Degree Requirements in University Catalog.
- Basic Science Elective: select from ASTR 1013, 1023, BIOL 1113, CHEM 1314, 3053, GEOL 1114, 3413, PHYS 3213, 3313, 3713.
- 3 hours of technical elective to be selected from list found in Degree Requirements.
- 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.
***AERS Course Sequence Outlined in Blue, some courses may be Fall only or Spring only.**
- You must complete 6 hours of Humanities (H) credits and 3 hours of Social and Behavioral Science (S) credits. You are also required to meet the Board of Regents Diversity (D) and International (I) attributes by completing one course in each dimension. These attributes can be combined with your (H) and (S) requirements.

6 International Attribute (I)

6 Diversity Attribute (D)