

OSU - College of Engineering, Architecture & Technology

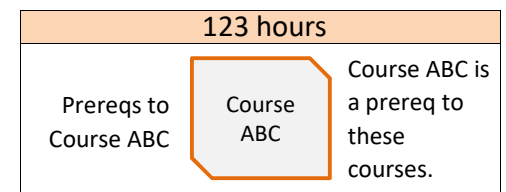
REFER TO THE CATALOG TO CONFIRM
PREREQUISITE COURSES

Aerospace 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> 1111 Intro to Engr </div> <div style="display: flex; justify-content: space-between;"> MATH 1513 ALEKS >=56 <div style="border: 1px solid orange; padding: 5px; text-align: center;"> <u>CHEM</u> 1414 Chem for ENGR </div> ENSC 2213 ENSC 3313 </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;"> MATH 1813 ALEKS >=75 <div style="border: 1px solid orange; padding: 5px; text-align: center;"> <u>MATH</u> 2144 CALC 1 </div> MATH 2153 PHYS 2014 ENSC 2113 ENSC 2213 </div> <div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid orange; padding: 5px; text-align: center;"> <u>1ENGL</u> 1113 COMP 1 </div> ENGL 1213 </div> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; text-align: center;"> POLS 1113 Am Govt </div>	<div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid orange; padding: 5px; text-align: center;"> <u>ENGR</u> 1412 Intro Eng Computer Prgm </div> MAE 3403 </div> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; text-align: center;"> HIST 1103 Am History </div> <div style="display: flex; justify-content: space-between;"> MATH 2144 <div style="border: 1px solid orange; padding: 5px; text-align: center;"> <u>PHYS</u> 2014 Physics 1 </div> ENSC 2113 ENSC 2213 PHYS 2114 MAE 3013 </div> <div style="display: flex; justify-content: space-between;"> MATH 2144 <div style="border: 1px solid orange; padding: 5px; text-align: center;"> <u>MATH</u> 2153 Calc 2 </div> MATH 2163 MATH 2233 ENSC 2613 MAE 3333 IEM 3503 </div> <div style="display: flex; justify-content: space-between;"> ENGL 1113 <div style="border: 1px solid orange; padding: 5px; text-align: center;"> <u>1ENGL</u> 1213 Comp 2 </div> </div> <div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid orange; padding: 5px; text-align: center;"> <u>6ENGR</u> 2421 Data Acq Ctrl Lab </div> MAE 3333^{CC} MAE 3724 MAE 4223 MAE 4374 </div>	<div style="display: flex; justify-content: space-between;"> MATH 2144 and PHYS 2014 <div style="border: 1px solid orange; padding: 5px; text-align: center;"> <u>ENSC</u> 2113 Statics </div> ENSC 2123 ENSC 2143 MAE 3333 MAE 3153 </div> <div style="display: flex; justify-content: space-between;"> CHEM 1314, 1414, or 1515 MATH 2144 PHYS 2014 <div style="border: 1px solid orange; padding: 5px; text-align: center;"> <u>ENSC</u> 2213 Thermo </div> MAE 3153 </div> <div style="display: flex; justify-content: space-between;"> PHYS 2014 <div style="border: 1px solid orange; padding: 5px; text-align: center;"> <u>PHYS</u> 2114 Physics 2 </div> ENSC 2613 </div> <div style="display: flex; justify-content: space-between;"> MATH2153 <div style="border: 1px solid orange; padding: 5px; text-align: center;"> <u>MATH</u> 2163 Calc 3 </div> </div> <div style="display: flex; justify-content: space-between;"> MATH2153 <div style="border: 1px solid orange; padding: 5px; text-align: center;"> <u>MATH</u> 2233 Diff Eq </div> MAE 3013 MAE 3293 MAE 3253 </div>	<div style="display: flex; justify-content: space-between;"> ENSC 2113 <div style="border: 1px solid orange; padding: 5px; text-align: center;"> <u>ENSC</u> 2123 Dynamics </div> MAE 3153^{CC} </div> <div style="display: flex; justify-content: space-between;"> ENSC 2113 <div style="border: 1px solid orange; padding: 5px; text-align: center;"> <u>ENSC</u> 2143 Strengths </div> MAE 3153^{CC} </div> <div style="display: flex; justify-content: space-between;"> ENSC 2143^{CC} <div style="border: 1px dashed orange; padding: 5px; text-align: center;"> <u>6ENSC 2141</u> Strengths Lab </div> MAE CAT II </div> <div style="display: flex; justify-content: space-between;"> ENSC 2113 MATH 2153 ENGR 2421^{CC} <div style="border: 1px solid orange; padding: 5px; text-align: center;"> MAE 3333 Fluids </div> MAE 3293 MAE 3153^{CC} MAE 3233^{CC} </div> <div style="display: flex; justify-content: space-between;"> MAE3333^{CC} <div style="border: 1px dashed orange; padding: 5px; text-align: center;"> <u>6ENSC 3231</u> Fluids Lab </div> MAE CAT II </div> <div style="display: flex; justify-content: space-between;"> ENSC 2113 ENSC 2213 ENSC 2123^{CC} ENSC 2143^{CC} MAE 3333^{CC} <div style="border: 1px solid orange; padding: 5px; text-align: center;"> MAE 3153 Intro ME Design </div> MAE 3324 MAE 4243 MAE 3524 </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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PREREQUISITE COURSES

Aerospace Engineering, 2022-2023

Semester 5, 15 credit hours	Semester 6, 17 credit hours	Semester 7, 15 credit hours	Semester 8, 13 credit hours
<p>MAE 3333^{cc} ⁴ TECH Elect Or MAE 3233 for ⁵ Double Degree MAE 3524</p> <p>MATH 2233 PHYS 2014 MAE 3013 Engr Analysis MAE 3403 MAE 3724</p> <p>MATH 2233 MAE 3333 MAE 3293 Fund of Aero MAE 3253 MAE 4243</p> <p>CHEM, 1314, 1414 or 1515 ENSC 3313 Materials Science MAE 3324</p> <p>ENSC 3313^{cc} ⁶ENSC 3311 Materials Lab MAE CAT II</p> <p>MATH 2153 PHYS 2114 ENSC 2613 Circuits MAE 3724</p> <p>ENSC 2613^{cc} ⁶ENSC 2411 Circuits Lab MAE CAT II</p>	<p>²Social & Behavioral Sciences (S) D or I</p> <p>ENGR 2421 ENSC 2613 MAE 3013 MAE 3724 Sys Analysis MAE 4283</p> <p>MAE 3153 ENSC 3313 MAE 3324 Mech Des 1 MAE 4513</p> <p>MATH 2233 MAE 3293 MAE 3253 Applied Aero MAE 4283 MAE 4223</p> <p>ENGR 1412 MAE 3013 MAE 3403 Comp Meth MAE 4513</p>	<p>MAE 3324 MAE 4513 Aero Structures MAE 4374</p> <p>MAE 3153 MAE 3293 MAE 4243 Prop & Power MAE 4374</p> <p>MAE 3253 MAE 3724 MAE 4283 Stab & Ctrl MAE 4374 MAE 4223</p> <p style="text-align: center;">³ Basic Science</p> <p>MATH 2153 IEM 3503 Engr Econ</p> <p style="font-size: small;">Fall Only: MAE 3293, MAE 4243, MAE 4283, MAE 4513</p>	<p>MAE 4243 MAE 4374 Aerospace Sys Design</p> <p>MAE 4283 MAE 4513 ENGR 2421 See note 6</p> <p>MAE 3253 MAE 4223 Aero Engr Lab</p> <p>ENGR 2421</p> <p>²Humanities (H) D or I</p> <p>²Humanities (H) D or I</p> <p>MAE 3233 MAE 3153 For ⁵Double Degree MAE3524</p> <p style="font-size: small;">Spring Only: MAE 3253, MAE 4223, MAE 4374</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. 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.
5. For students pursuing the double Aerospace and Mechanical Engineering degrees, MAE 3233 is used as TECH Elective, and MAE 3524 is taken as an additional course. "C" or better is required in both courses to meet requirements for Mechanical Engineering Degree Requirements 2022-2023
6. 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

