

OSU - College of Engineering, Architecture & Technology

Aerospace Engineering, 2020-2021

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 <div style="border: 1px solid orange; padding: 5px; text-align: center;"> <u>CHEM</u> 1414 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 or ALEKS <div style="border: 1px solid orange; padding: 5px; text-align: center;"> <u>MATH</u> 2144 Calc 1 </div> PHYS 2014 MATH 2153 ENSC 2213 </div> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; text-align: center;"> <u>ENGL</u> 1113 Comp 1 </div> <div style="display: flex; justify-content: space-between;"> ENGL 1213 </div> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; text-align: center;"> ²H D/I </div>	<div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid orange; padding: 5px; text-align: center;"> <u>ENGR</u> 1412 VBA 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 </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;"> ¹ENGL 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>ENGR</u> 2421 Meas & Inst Lab </div> MAE 3333 </div>	<div style="display: flex; justify-content: space-between;"> MATH 2144 PHYS 1114 or 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;"> CHEM1314, 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 or <div style="border: 1px solid orange; padding: 5px; text-align: center;"> <u>PHYS</u> 2114 Physics 2 </div> ENSC 2613 MAE 3013 </div> <div style="display: flex; justify-content: space-between;"> MATH 2153 <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;"> MATH 2153 <div style="border: 1px solid orange; padding: 5px; text-align: center;"> <u>MATH</u> 2233 Diff Eq </div> MAE 3293 MAE 3253 MAE 3013 </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 </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 </div> <div style="display: flex; justify-content: space-between;"> Co/Pre ENSC2143 <div style="border: 1px solid orange; padding: 5px; text-align: center;"> <u>ENSC 2141</u> Strengths Lab </div> </div> <div style="display: flex; justify-content: space-between;"> ENSC 2113 MATH 2153 ENGR 2421 <div style="border: 1px solid orange; padding: 5px; text-align: center;"> MAE 3333 Fluids </div> MAE 3153 MAE 3233 </div> <div style="display: flex; justify-content: space-between;"> Co/Pre MAE3333 <div style="border: 1px solid orange; padding: 5px; text-align: center;"> <u>ENSC 3231</u> Fluids Lab </div> </div> <div style="display: flex; justify-content: space-between;"> ENSC2113 ENSC2213 ENSC2143 ENSC2123 <div style="border: 1px solid orange; padding: 5px; text-align: center;"> MAE 3153 ntro ME Design </div> MAE 3324 MAE 3724 MAE 3524 MAE 3293 </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 2020-2021/Underlined on Flowchart). Grades of "C" or higher in all Upper Division Major Requirements courses. (footnote 2 on Degree Requirements Sheet 2020-2021/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 must meet the International Dimension (I) and 1 course must meet the Diversity (D) req't.

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Aerospace Engineering, 2020-2021

Semester 5, 15 credit hours	Semester 6, 18 credit hours	Semester 7, 16 credit hours	Semester 8, 16 credit hours
MAE 3333 ⁴TECH Elect Or MAE3233 for ⁵Double Degree MAE 3524	POLS 1113 Am Govt	MAE 3324 MAE 3403 MAE 4513 Aero Structrs MAE 4374	MAE 4243 MAE 4283 MAE 4513 MAE 4374 Sys Analysis
MATH 2233 PHYS 2114 MAE 3013 Engr Analysis MAE 3403 MAE 3724	MAE 3013 ENSC 2613 MAE 3153 MAE 3724 Sys Analysis CAT II MAE 4283	MAE 3293 MAE 3153 MAE 4243 Prop & Power MAE 4374	MAE 3253 MAE 4283 ENGR 2421 ENSC2141 ENSC3231 MAE 4223 Sys Analysis
MATH 2233 MAE 3153 MAE 3293 Fnd of Aero MAE 3253 MAE 4243	MAE 3153 ENSC 3313 MAE 3324 Mech Des 1 CAT II	MAE 3253 MAE 3724 MAE 4283 Stab & Contrl MAE 4223 MAE 4374	2 S D/I
CHEM 1314, 1414 or 1515 ENSC 3313 Mat Sci MAE 3324	MATH 2233 MAE 3293 MAE 3253 App Aero MAE 4223	3 Basic Science	2 H D/I
MATH 2153 PHYS 2114 ENSC 2613 Circuits MAE 3724	MAE 3013 ENGR 1412 MAE 3403 Comp Meth MAE 4513	MATH 2153 IEM 3503 Engr Econ	MAE 3233 MAE 3153 For ⁵Double Degree MAE3524 CAT II

3. Basic Science Elective: select from ASTR 1013, 1023, BIOL 1114, CHEM 3053, GEOL 1114, 3413, PHYS 3213, 3313, 3713 (see Catalog for Prerequisites).
4. Technical Elective - 3000 or above in BAE/CHE/CIVE/ECEN/IEM/PETE/BIOL/BIOC/CHEM/CS/LSB/GEOL/PHYS, BCOM 3233, MATH 3303, MGMT 3133, PHIL 3803, PHIL 3833. 4000 or above in MATH/MET/STAT, MGMT 4073, MGMT4533, ECON 4113. For Double Degree, MAE 3233 is used as Tech Elective
5. For students pursuing the double Aerospace and Mechanical Engineering degrees, MAE3233 is uses as TECH Elective, and MAE3524 is taken as an additional course. "C" or better is required in both courses to meet requirements for Mechanical Engineering Degree Requirements 2020-2021

