

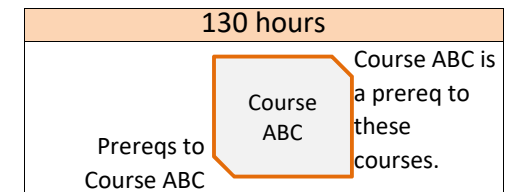
OSU - College of Engineering, Architecture & Technology

Mechanical Engineering, 2021-2022 Fire Protection Systems Option

Semester 1, 17 credit hours	Semester 2, 18 credit hours	Semester 3, 17 credit hours	Semester 4, 17 credit hours
<div style="border: 1px solid orange; padding: 5px; display: inline-block;">ENGR 1111 Intro to Engr</div>	<div style="border: 1px solid orange; padding: 5px; display: inline-block;">ENGR 1412 ENGR Computer Programming</div> MAE 3403	MATH 2144 PHYS 1114 or 2014	<div style="border: 1px solid orange; padding: 5px; display: inline-block;">ENSC 2113 Statics</div> ENSC 2123 ENSC 2143 MAE 3333 MAE 3153
MATH 1513	<div style="border: 1px solid orange; padding: 5px; display: inline-block;">HIST 1103 Am History</div>	CHEM1314, 1414 or 1515 MATH 2144 PHYS 2014	ENSC 2113
<div style="border: 1px solid orange; padding: 5px; display: inline-block;">CHEM 1414 For Engr</div> ENSC 2213 ENSC 3313	MATH 2144	<div style="border: 1px solid orange; padding: 5px; display: inline-block;">ENSC 2213 Thermo</div> MAE 3293 MAE 3153	<div style="border: 1px solid orange; padding: 5px; display: inline-block;">ENSC 2143 Strengths</div> MAE 3153
<div style="border: 1px solid orange; padding: 5px; display: inline-block;">ENGR 1332 CAD/SolidWorks</div>	<div style="border: 1px solid orange; padding: 5px; display: inline-block;">PHYS 2014 Physics 1</div> ENSC 2113 ENSC 2213 PHYS 2114	PHYS 2014	Co/Pre ENSC 2143
MATH 1813 OR ALEKS	<div style="border: 1px solid orange; padding: 5px; display: inline-block;">MATH 2144 Calc 1</div> PHYS 2014 MATH 2153 ENSC 2213	<div style="border: 1px solid orange; padding: 5px; display: inline-block;">PHYS 2114 Physics 2</div> ENSC 2613 MAE 3013	<div style="border: 1px solid orange; padding: 5px; display: inline-block;">ENSC 2141 Strengths Lab</div>
<div style="border: 1px solid orange; padding: 5px; display: inline-block;">MATH 2144 Calc 1</div>	MATH 2144	MATH 2153	ENSC 2113 MATH 2153 ENGR2421
<div style="border: 1px solid orange; padding: 5px; display: inline-block;">ENGL 1113 Comp 1</div> ENGL 1213	<div style="border: 1px solid orange; padding: 5px; display: inline-block;">MATH 2153 Calc 2</div> MATH 2163 MATH 2233 ENSC 2613 MAE 3333 IEM 3503	<div style="border: 1px solid orange; padding: 5px; display: inline-block;">MATH 2163 Calc 3</div>	<div style="border: 1px solid orange; padding: 5px; display: inline-block;">MAE 3333 Fluids</div> MAE3153 MAE 3233
<div style="border: 1px solid orange; padding: 5px; display: inline-block;">2S D/I</div>	<div style="border: 1px solid orange; padding: 5px; display: inline-block;">ENGL 1213 Comp 2</div> ENGL 1113	<div style="border: 1px solid orange; padding: 5px; display: inline-block;">MATH 2233 Diff Eq</div> MAE 3293 MAE 3253 MAE 3013	Co/Pre MAE3333
	<div style="border: 1px solid orange; padding: 5px; display: inline-block;">POLS 1113 Am Govt</div>	<div style="border: 1px solid orange; padding: 5px; display: inline-block;">ENGR 2421 Meas & Inst Lab</div> MAE 3333	<div style="border: 1px solid orange; padding: 5px; display: inline-block;">ENSC 3231 Fluids Lab</div>
			MATH 2153 PHYS 2114
			<div style="border: 1px solid orange; padding: 5px; display: inline-block;">ENSC 2613 Circuits</div> MAE 3724
			ENSC2113 ENSC2213 ENSC2143 ENSC2123
			<div style="border: 1px solid orange; padding: 5px; display: inline-block;">MAE 3153 Intro ME Desigr</div> MAE 3324 MAE 3724 MAE 3524

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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Semester 5, 15 credit hours	Semester 6, 15 credit hours	Semester 7, 15 credit hours	Semester 8, 16 credit hours
<p>MAE 3333 MAE 3233 Heat Trans CAT II MAE 3524</p> <p>MATH 2233 MAE 3013 Engr Analysis MAE 3403 PHYS 2114 MAE 3724</p> <p>FPST 1213 Hazards Recognition PETE 4343 PETE 4333</p> <p>CHEM 1314, ENSC 3313 Mat Sci MAE 3324 1414 or 1515</p> <p>FPST 1373 Suppress & Detect FPST 2243</p>	<p>ENSC 2113 MAE 3324 Mech Des 1 CAT II ENSC 2143 ENSC 3313</p> <p>MAE 3233 MAE 3524 Therm Fluid Des CAT II MAE 3153</p> <p>MAE 3013 MAE 3724 Sys Analysis CAT II MAE 3153 ENSC 2613</p> <p>FPST 1373 FPST 2243 Sprinkler Design & Analysis MAE 3333 ENGR 1332</p> <p style="text-align: center;">2 H D/I</p>	<p>Prereqs Vary by Course 3 MAE CAT I</p> <p>Prereqs Vary by Course 5 MAE Elect</p> <p>MATH 2153 IEM 3503 Engr Econ</p> <p>MAE 3013 MAE 3403 Comp Meth ENGR 1412</p> <p>MATH 2153 FPST 3373 Fire Dynamics FPST 4143 MAE 3333 (ENSC 2213 or MAE 3233)</p>	<p>MAE 3524 MAE 3324 4 MAE CAT II MAE 3724 ENGR2421 ENSC2141 ENSC3231</p> <p>FPST 3373 FPST 4143 Ventilation & Smoke Ctrl MAE 3333</p> <p style="text-align: center;">2 H D/I</p> <p>ENSC 3233 6 FPST/CET ELECTIVE PETE 4303</p>

3. Category I – MAE 4243, 4263, 4353, 4363, 4513, 4623, 4703, 4713, or 4723 (See Catalog for Pre-Requisites).
4. Category II – MAE 4344 or MAE 4354 (See Catalog for Pre-Requisites)
5. MAE Elective (3 Hours) – MAE 3033, 3123, 3253, 3293, 4053, 4063, 4273, 4313, 4333, 4583, 4733, or courses listed in Category I above not used to satisfy the CAT I Requirement
6. FPST/CET Elective (3 hours) – CET 4443, FPST 3113, 3383, 4213, 4383, or courses in the Category I above not used to satisfy the CAT I Requirement

