

OSU - College of Engineering, Architecture & Technology

Mechanical Engineering, 2022-2023 Fire Protection Systems Option

REFER TO THE CATALOG TO CONFIRM
PREREQUISITE COURSES

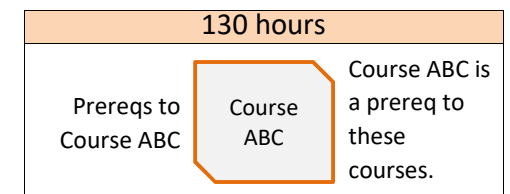
Semester 1, 17 credit hours	Semester 2, 18 credit hours	Semester 3, 17 credit hours	Semester 4, 17 credit hours
<div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; text-align: center;"> ENGR 1111 Intro to Engr </div> <div style="display: flex; justify-content: space-between;"> <div style="text-align: center;"> MATH 1513 <div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; text-align: center;"> CHEM 1414 For Engr </div> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; text-align: center;"> ENGR 1332 CAD/SolidWorks </div> <div style="display: flex; justify-content: space-between;"> <div style="text-align: center;"> MATH 1813 OR ALEKS <div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; text-align: center;"> MATH 2144 Calc 1 </div> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; text-align: center;"> 1ENGL 1113 Comp 1 </div> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; text-align: center;"> POLS 1113 Am Govt </div> </div> <div style="text-align: center;"> PHYS 2014 MATH 2153 ENSC 2213 </div> </div> </div> </div>	<div style="display: flex; justify-content: space-between;"> <div style="text-align: center;"> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; text-align: center;"> ENGR 1412 ENGR Computer Programming </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;"> <div style="text-align: center;"> MATH 2144 <div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; text-align: center;"> PHYS 2014 Physics 1 </div> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; text-align: center;"> MATH 2144 Calc 2 </div> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; text-align: center;"> 1ENGL 1213 Comp 2 </div> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; text-align: center;"> 2Social & Behavioral Sciences (S) D or I </div> </div> <div style="text-align: center;"> ENSC 2113 ENSC 2213 PHYS 2114 </div> </div> </div> </div>	<div style="display: flex; justify-content: space-between;"> <div style="text-align: center;"> MATH 2144 PHYS 2014 or PHYS 2114 CHEM1314, 1414 or 1515 MATH 2144 PHYS 2014 PHYS 2014 MATH 2153 MATH 2153 </div> <div style="text-align: center;"> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; text-align: center;"> ENSC 2113 Statics </div> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; text-align: center;"> ENSC 2213 Thermo </div> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; text-align: center;"> PHYS 2114 Physics 2 </div> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; text-align: center;"> MATH 2163 Calc 3 </div> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; text-align: center;"> MATH 2233 Diff Eq </div> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; text-align: center;"> ENGR 2421 Meas & Inst Lab </div> </div> <div style="text-align: center;"> ENSC 2123 ENSC 2143 MAE 3333 MAE 3153 MAE 3153 ENSC 2613 MAE 3013 MAE 3013 MAE 3333^{CC} MAE 3724 MAE CAT II </div> </div>	<div style="display: flex; justify-content: space-between;"> <div style="text-align: center;"> ENSC 2113 ENSC 2113 ENSC 2143^{CC} ENSC 2113 MATH 2153 ENGR 2421^{CC} MAE 3333^{CC} MATH 2153 PHYS 2114 ENSC 2613^{CC} ENSC 2113 ENSC 2213 ENSC 2143^{CC} MAE 3333^{CC} </div> <div style="text-align: center;"> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; text-align: center;"> ENSC 2123 Dynamics </div> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; text-align: center;"> ENSC 2143 Strengths </div> <div style="border: 1px dashed orange; padding: 5px; margin-bottom: 10px; text-align: center;"> ENSC 2141 Strengths Lab </div> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; text-align: center;"> MAE 3333 Fluids </div> <div style="border: 1px dashed orange; padding: 5px; margin-bottom: 10px; text-align: center;"> ENSC 3231 Fluids Lab </div> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; text-align: center;"> ENSC 2613 Circuits </div> <div style="border: 1px dashed orange; padding: 5px; margin-bottom: 10px; text-align: center;"> 7ENSC 2411 Circuits Lab </div> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; text-align: center;"> MAE 3153 Intro ME Design </div> </div> <div style="text-align: center;"> MAE 3153^{CC} MAE 3153^{CC} MAE CAT II MAE 3233^{CC} MAE 3153^{CC} MAE CAT II MAE 3724 MAE CAT II MAE 3324 MAE 3524 </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 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 must meet the International Dimension (I) and 1 course must meet the Diversity (D) requirement

Please note: Some FPST courses have prerequisites that are not inherently required by the Mechanical Engineering degree

For Reference Only



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Mechanical Engineering, 2022-2023 Fire Protection Systems Option

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PREREQUISITE COURSES

Semester 5, 15 credit hours	Semester 6, 15 credit hours	Semester 7, 15 credit hours	Semester 8, 16 credit hours
<p>MAE 3333^{CC} 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>ENSC 3313^{CC} 7 ENSC 3311 Mat Sci Lab MAE CAT II</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>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 STAT 2013 (ENSC 2213 or MAE 3233) CHEM 1314, 1414 or 1515</p>	<p>MAE 3524 5 MAE CAT II MAE 3324 MAE 3724 ENGR2421 See notes 4 and 7</p> <p>FPST 3373 FPST 4143 Ventilation & Smoke Ctrl MAE 3333</p> <p>6 FPST/CET ELECTIVE</p> <p>2 Humanities (H) D or I</p> <p>2 Humanities (H) D or I</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, 4003, 4053, 4063, 4243, 4263, 4273, 4313, 4333, 4353, 4363, 4513, 4583, 4623, 4703, 4713, 4723, 4733
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
7. In order to fulfill the Lab requirement you must complete ENGR 2421 and select two of the following lab courses:
ENSC 2141, ENSC 2411, ENSC3231, or ENSC 3311. Each course can be taken concurrently or after its corresponding course

Please note: Some FPST courses have prerequisites that are not inherently required by the Mechanical Engineering degree

