



OSU - College of Engineering, Architecture & Technology

Industrial Engineering & Management Pre-Prof School, 2019-2020

Semester 1, 15 credit hours	Semester 2, 15 credit hours	Semester 3, 18 credit hours	Semester 4, 15 credit hours
<div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; text-align: center;"> HIST 1103 Survey of Am Hist </div> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; text-align: center;"> <u>ENGR</u> 1111 IEM 2903 Intro to Engr </div> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; text-align: center;"> ¹ENGL 1113 ENGL 3323 Comp I </div> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; text-align: center;"> College CHEM Min C in MATH 1513 <div style="border: 1px solid orange; padding: 2px; display: inline-block; text-align: center;"> CHEM 1414 Gen. Chem for Engr </div> ENSC 3313 </div> <div style="border: 1px solid orange; padding: 5px; text-align: center;"> Min C in MATH 1813 75+ on ALEKS <div style="border: 1px solid orange; padding: 2px; display: inline-block; text-align: center;"> MATH 2144 Calculus I </div> PHYS 2014 ENSC 2113 IEM 2903 IEM 3523 MATH 2153 </div>	<div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; text-align: center;"> POLS 1113 Am Govt </div> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; text-align: center;"> <u>ENGR</u> 1412 Intro to Engr Comp Prgrm </div> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; text-align: center;"> MIN C IN MATH 2144 <div style="border: 1px solid orange; padding: 2px; display: inline-block; text-align: center;"> PHYS 2014 Univ Physics I </div> ENSC 2113 PHYS 2114 </div> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; text-align: center;"> MIN C IN MATH 2144 <div style="border: 1px solid orange; padding: 2px; display: inline-block; text-align: center;"> MATH 2153 Calculus II </div> MATH 2163 MATH 2233 MATH 3013 IEM 3103 IEM 3503 </div> <div style="border: 1px solid orange; padding: 5px; text-align: center;"> ²S / D / I Gen Ed Req </div>	<div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; text-align: center;"> ³ENGR 1322 IEM 3303 Engr Design with CAD </div> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; text-align: center;"> MATH 2144 PHYS 1114 OR 2014 <div style="border: 1px solid orange; padding: 2px; display: inline-block; text-align: center;"> ENSC 2113 Statics </div> </div> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; text-align: center;"> MIN C IN PHYS 2014 <div style="border: 1px solid orange; padding: 2px; display: inline-block; text-align: center;"> PHYS 2114 Univ Physics II </div> </div> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; text-align: center;"> MIN C IN MATH 2153 <div style="border: 1px solid orange; padding: 2px; display: inline-block; text-align: center;"> MATH 2163 or 2233 Calc III /Dif Eq </div> </div> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; text-align: center;"> ENGR 1111 MATH 2144 <div style="border: 1px solid orange; padding: 2px; display: inline-block; text-align: center;"> IEM 2903 Intro Mfg & Serv Sys </div> IEM 4413 </div> <div style="border: 1px solid orange; padding: 5px; text-align: center;"> MATH 2153 <div style="border: 1px solid orange; padding: 2px; display: inline-block; text-align: center;"> IEM 3103 Prob & Stats for Engr I </div> IEM 3703 IEM 4163 - IEM Elect </div>	<p style="text-align: center; font-weight: bold;">See #4 below for ENSC Elective Options/Names</p> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; text-align: center;"> VARIES <div style="border: 1px solid orange; padding: 2px; display: inline-block; text-align: center;"> ⁴ENSC Elective </div> </div> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; text-align: center;"> VARIES <div style="border: 1px solid orange; padding: 2px; display: inline-block; text-align: center;"> ⁴ENSC Elective </div> </div> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; text-align: center;"> SPCH 2713 (S) Int Spch Com </div> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px; text-align: center;"> MIN C IN MATH 2153 <div style="border: 1px solid orange; padding: 2px; display: inline-block; text-align: center;"> MATH 3013 Lin Algebra </div> IEM 4013 </div> <div style="border: 1px solid orange; padding: 5px; text-align: center;"> IEM 3103 <div style="border: 1px solid orange; padding: 2px; display: inline-block; text-align: center;"> IEM 3703 Prob & Stats for Engr II </div> IEM 4103 IEM 4113 IEM 4713 IEM 4203 </div>

underlined = required before Professional School

1. If a 'B' or higher is not earned in ENGL 1113 or 1313, ENGL 1213 or 1413 is also required (per Academic Regulation 3.5).
2. Min 6 hrs (H) and 3 hrs (S). Of these, courses should include the International Dimension (I) and 3 hrs must meet the Diversity (D) req't. (The remaining 3 hrs of (S), to meet the Gen Ed req't, is met with SPCH 2713).
3. ENGR 1322 or 1332 (per degree sheet).
4. **ENSC Electives:** select from ENSC 2123 (Elementary Dynamics), ENSC 2143 (Strength of Materials), ENSC 2213 (Thermodynamics), ENSC 2613 (Intro to Electrical Science), ENSC 3213 (Computer Based Systems in Engineering) or ENSC 3233 (Fluid Mechanics).



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Semester 5, 15 credit hours	Semester 6, 15 credit hours	Semester 7, 15 credit hours	Semester 8, 15 credit hours
<p>See #4 below for ENSC Elective Options/Names</p> <p>Varies 4 ENSC Elect</p> <p>CHEM 1314 OR 1414 OR 1515 ENSC 3313 Materials Science IEM 3303</p> <p>Junior/Senior Standing IEM 3403 Collab Engr Project Mgmt</p> <p>Junior/Senior Standing IEM 3813 Wrk Desn, Erg Hum Perform</p> <p>MATH 3013 IEM 4013 Operations Research IEM 4713 IEM 4613 IEM 4203 IEM 4623 elect option</p>	<p>ENGR 1322 IEM 3303 Manufact. Processes</p> <p>ENSC 3313</p> <p>ENGL 1113 ENGL 3323 Tech Writing</p> <p>MATH 2153 IEM 3503 Engr Econ IEM 4163 Elect option</p> <p>MATH 2144 IEM 3523 Engr Cost Info & Control Sys</p> <p>IEM 3703 IEM 4713 Sys Simulation Modeling IEM 4203</p> <p>IEM 4013</p>	<p>IEM 3703 IEM 4113 Industrial Experiment</p> <p>IEM 4013 IEM 4203 Fac & Mat Handl Sys Des Instr Aprv</p> <p>IEM 4013 IEM 4613 Prod Plan & Ctrl Sys IEM 4163 Elect option</p> <p>Junior/Senior Standing IEM 4723 Info Sys Des & Dev</p> <p>2 H/D/I Gen Ed Requirements</p>	<p>See #5 below for IEM Elective Options/Names</p> <p>Varies 5 IEM Elect</p> <p>IEM 3703 IEM 4103 Quality Ctrl</p> <p>IEM 2903 Senior Standing IEM 4413 Industrial Org Mgmt</p> <p>IEM MAJORS TERMINAL SEMESTER IEM 4913 Senior Design Projects</p> <p>2 H/D/I Gen Ed Requirements</p>

- 4. ENSC Electives:** select from ENSC 2123 (Elementary Dynamics), ENSC 2143 (Strength of Materials), ENSC 2213 (Thermodynamics), ENSC 2613 (Intro to Electrical Science), ENSC 3213 (Computer Based Systems in Engineering) or ENSC 3233 (Fluid Mechanics).
- 5. IEM Electives:** select from IEM 4163 (Service Systems & Processes), IEM 4623 (Supply Chain Management), IEM 4953 (Industrial Assessment & Improvement), or IEM 4990 (Selected Topics in Industrial Engineering & Management - *Departmental Approval Required*).

