



OSU - College of Engineering, Architecture & Technology

Industrial Engineering & Management 2024-2025

Semester 1, 15 credit hours	Semester 2, 15 credit hours	Semester 3, 18 credit hours	Semester 4, 15 credit hours
<p>HIST 1103 Survey of Am Hist</p> <p>UNIV 1111 First Year Seminar IEM 2903</p> <p>Min C in MATH 1513 56+ on ALEKS</p> <p>CHEM 1414 Gen Chem for Engr ENSC 3313</p> <p>Min C in MATH 1813 75+ on ALEKS</p> <p>MATH 2144 Calculus I MATH 2153 PHYS 2014 ENSC 2113 IEM 2903 IEM 3523</p> <p>ENGL 1113 Comp I ENGL 1213 ENGL 3323</p> <p>Fall Only Classes</p> <p>Spring Only Classes</p>	<p>POLS 1113 Am Govt</p> <p>ENGR 1412 Intro to Engr Comp Prgrm IEM 3713 IEM 4783 - Elect</p> <p>MIN C IN MATH 2144</p> <p>PHYS 2014 Univ Physics I ENSC 2113 PHYS 2114</p> <p>MIN C IN MATH 2144</p> <p>MATH 2153 Calculus II MATH 2163 MATH 2233 MATH 3013 IEM 3103 IEM 3503</p> <p>1H 1D</p>	<p>MIN C IN MATH 2144 MIN C IN PHYS 2014 OR 1114</p> <p>ENSC 2113 Statics IEM 3813</p> <p>2 ENGR 1322 Engr Design with CAD IEM 3303</p> <p>MIN C IN PHYS 2014</p> <p>PHYS 2114 Univ Physics II</p> <p>MIN C IN MATH 2153</p> <p>MATH 2163 or 2233 Calc III /Dif Eq</p> <p>MIN C IN MATH 2153</p> <p>IEM 3103 Prob & Stats for Engr I IEM 3703 IEM 3813 IEM 4623 IEM 4163 - Elect</p> <p>MIN C IN UNIV 1111 MIN C IN MATH 2144</p> <p>IEM 2903 Intro to Indust Engr IEM 3813</p>	<p>MIN C IN CHEM 1414 OR CHEM 1515</p> <p>ENSC 3313 Materials Science IEM 3303</p> <p>MIN C IN ENGR 1412</p> <p>IEM 3713 Soft Prog Data Anal</p> <p>SPCH 2713 (S) Int Spch Com</p> <p>MIN C IN MATH 2153</p> <p>MATH 3013 Lin Algebra IEM 4013</p> <p>MIN C IN IEM 3103</p> <p>IEM 3703 Prob & Stats for Engr II IEM 4103 IEM 4113 IEM 4713 IEM 4203 IEM 4783 - Elect</p>

1. Min 6 hrs (H). Of these, courses should include the International Dimension (I) and 3 hrs must meet the Diversity (D) req't. The required 3 hrs of (S), are met with SPCH 2713.
2. ENGR 1322 or 1332 (per degree sheet).



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Semester 5, 15 credit hours	Semester 6, 15 credit hours	Semester 7, 15 credit hours	Semester 8, 15 credit hours
See #3 below for ENSC Elective Options/Names	Elective Options/Names	See #4 below for IEM Elective Options/Names	Elective Options/Names
<p>Varies 3 ENSC Elect</p> <p>MIN C IN ENGR 1322 MIN C IN ENSC 3313 IEM 3303 Manufact. Processes</p> <p>Junior/Senior Standing IEM 3403 Engr Project Management IEM 4913</p> <p>MIN C IN ENSC 2113 MIN C IN IEM 2903 MIN C IN IEM 3103 IEM 3813 Wrk Desn, Erg, Hum Perform IEM 4823 - Elect</p> <p>MIN C IN MATH 3013 IEM 4013 Operations Research IEM 4203 IEM 4613 IEM 4623 IEM 4713 IEM 4783 - Elect</p> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="border: 1px solid gray; padding: 5px; background-color: #f0f0f0;">Fall Only Classes</div> <div style="border: 1px solid orange; padding: 5px; background-color: #fff9c4;">Spring Only Classes</div> </div>	<p>Varies 3 ENSC Elect</p> <p>ENGL 1113 ENGL 1213 or 3323 Comp 2 or Tech Writing</p> <p>MIN C IN MATH 2153 IEM 3503 Engr Econ IEM 4163 - IEM Elect IEM 4913</p> <p>MIN C IN MATH 2144 IEM 3523 Engr Cost Info & Control Sys</p> <p>MIN C IN IEM 3703 MIN C IN IEM 4013 IEM 4713 System Sim Modeling</p>	<p>Varies 4 IEM Elect</p> <p>MIN C IN IEM 4013 MIN C IN IEM 3703 IEM 4203 Fac & Mat Handl Sys Des</p> <p>MIN C IN IEM 4013 IEM 4613 Prod Plan & Ctrl Sys</p> <p>Junior/Senior Standing IEM 4723 Info Sys Des & Dev</p> <p>MIN C IN IEM 3703 IEM 4113 Industrial Experiment</p>	<p>Varies 4 IEM Elect</p> <p>MIN C IN IEM 3103 MIN C IN IEM 4013 IEM 4623 Supply Chain & Logistics</p> <p>MIN C IN IEM 3703 IEM 4103 Quality Ctrl & Rel Anal</p> <p>Terminal Semester IEM Majors Only IEM 4913 Senior Design Projects</p> <p>MIN C IN IEM 3503 MIN C IN IEM 3403</p> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="border: 1px solid orange; padding: 5px; background-color: #fff9c4;">1H</div> <div style="border: 1px solid orange; padding: 5px; background-color: #fff9c4;">1I</div> </div>

3. ENSC Electives: select from ENSC 2123 (Elementary Dynamics), ENSC 2143 (Strength of Materials), ENSC 2213 (Thermodynamics), ENSC 2613 (Intro to Electrical Science), or ENSC 3233 (Fluid Mechanics).

4. IEM Electives: select from IEM 4163 (Service Systems & Processes), IEM 4413 (Industrial Organization Management), IEM 4783 (Applied Statistical Analysis in R for Engineers), IEM 4823 (Human Factors Engineering), IEM 4953 (Industrial Assessment & Improvement), IEM 4990 (Selected Topics in Industrial Engineering & Management - *Departmental Approval Required*), or Any 3000/4000 Level MATH, STAT, CS, or CEAT course with Advisor approval.

