



OSU - College of Engineering, Architecture & Technology

Industrial Engineering & Management 2022-2023

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

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). 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.
3. 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 #4 below for ENSC Elective Options/Names Varies 4ENSC Elect MIN C IN ENGR 1322 MIN C IN ENSC 3313 IEM 3303 Manufact. Processes Junior/Senior Standing IEM 3403 Eng Project Management MIN C IN ENSC 2113 MIN C IN IEM 2903 MIN C IN IEM 3103 IEM 3813 Wrk Desn, Erg Hum Perform MIN C IN MATH 3013 IEM 4013 Operations Research IEM 4613 IEM 4713 IEM 4203 IEM 4783 - Elec Fall Only classes Spring Only classes	Elective Options/Names Varies 4ENSC Elect ENGL 1113 ENGL 3323 Tech Writing MIN C IN MATH 2153 IEM 3503 Engr Econ MIN C IN MATH 2144 IEM 3523 Engr Cost Info & Control Sys MIN C IN IEM 3703 IEM 4713 System Sim Modeling	See #5 below for IEM Elective Options/Names Varies 5IEM Elect MIN C IN IEM 4013 MIN C IN IEM 3703 IEM 4203 Fac & Mat Handl Sys Des MIN C IN IEM 4013 IEM 4613 Prod Plan & Ctrl Sys Junior/Senior Standing IEM 4723 Info Sys Des & Dev MIN C IN IEM 3703 IEM 4113 Industrial Experiment	Elective Options/Names Varies 5IEM Elect MIN C IN IEM 3103 MIN C IN IEM 4013 IEM 4623 Supply Chain & Logistics IEM 4613 (co-req) MIN C IN IEM 3703 IEM 4103 Quality Ctrl & Rel Anal Terminal Semester IEM Majors Only MIN C IN IEM 3503 MIN C IN IEM 3403 IEM 4913 Senior Design Projects 2H/D/I Gen Ed Requirements

- 4. 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).
- 5. IEM Electives:** select from IEM 4163 (Service Systems & Processes), 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.

