# OSU - College of Engineering, Architecture & Technology

## Industrial Engineering & Management 2020-2021

| 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** | POLS 1113 **Am Govt** | [3]ENGR 1322 **Engr Design with CAD** → IEM 3303 | **See #4 below for ENSC Elective Options/Names**<br>VARIES [4]ENSC Elective |
| ENGR 1111 **Intro to Engr** → IEM 2903 | ENGR 1412 **Intro to Engr Comp Prgrm** | MIN C IN MATH 2144, MIN C IN PHYS 2014 OR 1114: ENSC 2113 **Statics** → IEM 3813 | VARIES [4]ENSC Elective |
| [1]ENGL 1113 **Comp I** → ENGL 3323 | MIN C IN MATH 2144: PHYS 2014 **Univ Physics I** → ENSC 2113, PHYS 2114 | MIN C IN PHYS 2014: PHYS 2114 **Univ Physics II** | SPCH 2713 (S) **Int Spch Com** |
| College CHEM Min C in MATH 1513: CHEM 1414 **Gen. Chem for Engr** → ENSC 3313 | MIN C IN MATH 2144: MATH 2153 **Calculus II** → MATH 2163, MATH 2233, MATH 3013, IEM 3103, IEM 3503 | MIN C IN MATH 2153: MATH 2163 or 2233 **Calc III /Dif Eq** | MIN C IN MATH 2153: MATH 3013 **Lin Algebra** → IEM 4013 |
| Min C in MATH 1813 75+ on ALEKS: MATH 2144 **Calculus I** → PHYS 2014, ENSC 2113, IEM 2903, IEM 3523, MATH 2153 | [2]S / D/ I **Gen Ed Req** | MIN C IN ENGR 1111, MIN C IN MATH 2144: IEM 2903 **Intro Mfg & Serv Sys** → IEM 4413 | MIN C IN IEM 3103: IEM 3703 **Prob & Stats for Engr II** → IEM 4103, IEM 4113, IEM 4713, IEM 4203 |
| | | MIN C IN MATH 2153: IEM 3103 **Prob & Stats for Engr I** → IEM 3703, IEM 3813, IEM 4163 - IEM Elect | |

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), or ENSC 3233 (Fluid Mechanics).

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### Semester 5, 15 credit hours

**See #4 below for ENSC Elective Options/Names**

- Varies — 4ENSC Elect
- MIN C IN CHEM 1414 OR CHEM 1515 — ENSC 3313 Materials Science — IEM 3303
- Junior/Senior Standing — IEM 3403 Collab Engr Project Mgmt — IEM 4413
- MIN C IN ENSC 2113; 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 4623 - IEM Elect

### Semester 6, 15 credit hours

- MIN C IN ENGR 1322; MIN C IN ENSC 3313 — IEM 3303 Manufact. Processes
- ENGL 1113 — ENGL 3323 Tech Writing
- MIN C IN MATH 2153 — IEM 3503 Engr Econ — IEM 4163 - IEM Elect; IEM 4913
- MIN C IN MATH 2144 — IEM 3523 Engr Cost Info & Control Sys
- MIN C IN IEM 3703; MIN C IN IEM 4013 — IEM 4713 Sys Simulation Modeling

### Semester 7, 15 credit hours

- MIN C IN IEM 3703 — IEM 4113 Industrial Experiment
- 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 — IEM 4163 - IEM Elect
- Junior/Senior Standing — IEM 4723 Info Sys Des & Dev
- 2H/D/I Gen Ed Requirements

### Semester 8, 15 credit hours

**See #5 below for IEM Elective Options/Names**

- Varies — 5IEM Elect
- MIN C IN IEM 3703 — IEM 4103 Quality Ctrl
- MIN C IN IEM 2903; MIN C IN IEM 3403 — IEM 4413 Industrial Org Mgmt
- IEM Majors Only; Terminal Semester; MIN C IN IEM 3503 — 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 4623 (Supply Chain Management), IEM 4953 (Industrial Assessment & Improvement), IEM 4990 (Selected Topics in Industrial Engineering & Management - *Departmental Approval Required*), or Any 3000/4000 Level CEAT course with Advisor approval.

Prereqs to Course ABC — Course ABC — Course ABC is a prereq to these courses.

**123 hours**

For Reference Only

Revised 4/23/20