# ENGINEERING: MANUFACTURING SYSTEMS ENGINEERING, M.ENG.

## REQUIREMENTS

## MINIMUM GRADUATE SCHOOL REQUIREMENTS

Review the Graduate School minimum academic progress and degree requirements (http://guide.wisc.edu/graduate/#policiesandrequirementstext), in addition to the program requirements listed below.

## NAMED OPTION REQUIREMENTS
### MODE OF INSTRUCTION

| Face to Face | Evening/Weekend | Online | Hybrid | Accelerated |
| --- | --- | --- | --- | --- |
| No | No | Yes | No | No |

### Mode of Instruction Definitions

**Accelerated:** Accelerated programs are offered at a fast pace that condenses the time to completion. Students typically take enough credits aimed at completing the program in a year or two.

**Evening/Weekend:** Courses meet on the UW–Madison campus only in evenings and/or on weekends to accommodate typical business schedules. Students have the advantages of face-to-face courses with the flexibility to keep work and other life commitments.

**Face-to-Face:** Courses typically meet during weekdays on the UW-Madison Campus.

**Hybrid:** These programs combine face-to-face and online learning formats. Contact the program for more specific information.

**Online:** These programs are offered 100% online. Some programs may require an on-campus orientation or residency experience, but the courses will be facilitated in an online format.

### CURRICULAR REQUIREMENTS

| Requirement | Detail |
| --- | --- |
| Minimum Credit Requirement | 30 credits |
| Minimum Residence Credit Requirement | 16 credits |
| Minimum Graduate Coursework Requirement | 15 credits must be graduate-level coursework. Details can be found in the Graduate School's Minimum Graduate Coursework (50%) policy (https://policy.wisc.edu/library/UW-1244 (https://policy.wisc.edu/library/UW-1244/)). |

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| --- | --- |
| Overall Graduate GPA Requirement | 3.00 GPA required. This program follows the Graduate School's GPA Requirement policy (https://policy.wisc.edu/library/UW-1203 (https://policy.wisc.edu/library/UW-1203/)). |
| Other Grade Requirements | Must retake any courses for which a grade below C is recorded. |
| Assessments and Examinations | No formal examination required. |
| Language Requirements | No language requirements. |

### REQUIRED COURSES

| Code | Title | Credits |
| --- | --- | --- |
| **Required courses:** | | |
| E P D 611 | Engineering Economics and Management | 3 |
| E P D 612 | Technical Project Management | 3 |
| E P D 678 | Supply Chain Management for Engineers | 3 |
| I SY E 412 | Fundamentals of Industrial Data Analytics | 3 |
| I SY E 615 | Production Systems Control | 3 |
| I SY E 618 | Quality Engineering and Quality Management | 3 |
| I SY E/M E 641 | Design and Analysis of Manufacturing Systems | 3 |
| M E 529 | Smart Manufacturing | 3 |
| **Electives** [1] | | **6** |
| **Total Credits** | | **30** |

[1]

Students choose elective courses in consultation with their advisor.

Students in this program may not take courses outside the prescribed curriculum without faculty advisor and program director approval. Students in this program cannot enroll concurrently in other undergraduate or graduate degree programs.