

# School of Industrial Engineering and Management

## Master of Science (MS) Degree Program\*

### The MS IEM degree has three options:

- The thesis option requires the completion of 30 semester credit hours, including a 6 credit-hour thesis.
- The creative component-independent study (IS) option requires the completion of 33 semester credit hours, including a 3 credit-hour independent study project.
- The creative component-course work (CW) option requires the completion of 33 semester credit hours of course work.

All MS options require the selection of a **track**. The department currently supports a variety of courses in one general track and three specialty tracks<sup>1</sup>. These are:

- General Industrial Engineering<sup>2</sup>
- Engineering Management
- Operations Research<sup>3</sup>
- Supply Chain & Logistics<sup>4</sup>

Each track comprises of a set of **track core** courses and a set of **track supporting** courses. All program options require the student to take all four track core courses from their chosen track and earn a grade of 'B' or better in at least three of them. Note that only courses with a minimum grade of 'C' can be included on a graduate plan of study. All program options also require the student to take at least four track supporting courses from their chosen track. Any remaining courses on an MS plan of study are considered graduate **elective courses**, selected with the approval of the advisor and the committee. These electives can be any graduate level IEM course or any appropriate course approved for graduate credit. These electives must be substantial courses with strong relevance to the chosen track. The plan may include a maximum of 12 (9 for the thesis option) hours of 4xxx level courses that are eligible for graduate credit (indicated with an asterisk (\*) in the OSU Catalog) as electives.

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\*Version: Fall 2017

<sup>1</sup>Subject to periodic revisions and offering subject to adequate enrollment

<sup>2</sup>Recommended for distance students

<sup>3</sup>Not available for distance students

<sup>4</sup>Not available for distance students

**MS Coursework (CW) (total 33 credit hours **minimum requirement**). An IEM MS CW POS under a chosen track:**

- **Must have the four track core** courses and the student must secure a grade of B or better in at least three of the four track core courses.<sup>5</sup>
- Must include **at least four supporting** courses chosen from those designated as track supporting courses.
- May include **up to three electives**– any IEM and non-IEM course eligible for graduate credit, approved by the advisor and committee as relevant to the track.

**MS Independent Study (IS) (total 33 credit hours **minimum requirement**). An IEM MS IS POS under a chosen track:**

- **Must have the four track core** courses and the student must secure a grade of B or better in at least three of the four track core courses.
- Must include **at least four supporting** courses chosen from those designated as track supporting courses.
- May include **up to two electives**– any IEM and non-IEM course eligible for graduate credit, approved by the advisor and committee as relevant to the track.
- **Must have IEM 5350** Industrial Engineering Projects in the **graduating semester**; must receive a grade of B or better in this course.<sup>6</sup>

**MS Thesis (total 30 credit hours **minimum requirement**). An IEM MS thesis POS under a chosen track:**

- **Must have the four track core** courses and the student must secure a grade of B or better in at least three of the four track core courses.
- Must include **at least two supporting** courses chosen from those designated as track supporting courses.
- May include **up to two electives**– any IEM and non-IEM course eligible for graduate credit, approved by the advisor and committee as relevant to the track.
- Must complete 6 credits of IEM 5000 (thesis research credits) with an “SR” grade.

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<sup>5</sup>One of the track core courses with a grade of B or better must be designated as the course satisfying the “creative component” requirement in the online POS.

<sup>6</sup>Must designate IEM 5350 as the course satisfying the “creative component” requirement in the online POS.