

MASTER OF INDUSTRIAL TECHNOLOGY AND OPERATIONS

Each student's plan of study is customized to best serve individual career objectives. Of the 30 credit hours required for the MITO degree, the student must complete at least 18 credit hours of INTM graduate courses. Up to 12 credit hours of senior (400-level) courses may be completed as part of the degree. A maximum of 6 credit hours may be applied from special project courses (INTM 597) or an Interprofessional Project (IPRO 497). A total of 9 credit hours taken at a different university (passed with the grade of "B" or better) may be transferred to the university and applied towards the MITO degree if those credits have not been applied toward any earned degree (subject to administrative approval). No thesis or comprehensive examination is required as part of this degree.

The flexibility of course options within the MITO program allows students to complete an industrial specialization, or simply take the ten courses of greatest interest. A specialization requires the completion of 12 credit hours (four courses) in any one of four concentrations within the INTM curriculum: Industrial Facilities (IF), Industrial Sustainability (ST), Manufacturing Technology (MT), or Supply Chain Management (SCM). Alternatively, students may complete up to four courses in another university department with appropriate qualifications and approvals. For example, students have taken courses from Stuart School of Business, Armour College of Engineering, and the food science and nutrition program.

INTM courses are presented live at the university's Mies Campus in Chicago, and via interactive video at the Rice Campus in Wheaton, Illinois. In addition, the MITO program can be completed entirely online. Using a delayed Internet format (lecture videos are posted within 24 hours after the live session), students can log on and view lectures at the time and location of their choice.

Curriculum

Elective Courses		(18-30)
Select a minimum of 18-30 credit hours from the following: ¹		18-30
INTM 404	Marketing, Sales, and Product Introduction	3
INTM 406	Quality Control	3
INTM 410	Operations Management	3
INTM 413	Contract Administration for Construction Projects	3
INTM 417	Construction Estimating	3
INTM 425	Human Resource Management	3
INTM 427	E-Commerce	3
INTM 432	Sales and Operations Planning	3
INTM 477	Entrepreneurship in Industry	3
INTM 502	Fundamentals of Industrial Engineering	3
INTM 507	Construction Technology	3
INTM 508	Cost Management	3
INTM 509	Inventory Control	3
INTM 511	Industrial Leadership	3
INTM 515	Advanced Project Management	3
INTM 516	Integrated Facilities Management	3
INTM 518	Industrial Risk Management	3
INTM 520	Applied Strategies for the Competitive Enterprise	3
INTM 522	Computers in Industry	3
INTM 530	Transportation	3
INTM 531	Manufacturing Processes for Metals and Mechanical Systems	3
INTM 532	Manufacturing Processes for Electronics and Electrical Systems	3
INTM 533	Chemical Manufacturing Processes in Industry	3
INTM 540	Supply Chain Management	3
INTM 542	Warehousing and Distribution	3
INTM 543	Purchasing	3
INTM 544	Export/Import	3
INTM 545	Strategic International Business	3
INTM 546	Manufacturing and Logistics Information Systems	3
INTM 547	Supply Chain Strategies	3
INTM 559	Issues in Industrial Sustainability	3
INTM 560	Sustainability of Critical Materials	3

INTM 561	Energy Options in Industry	3
INTM 597	Special Projects ²	0-6
Optional Specialization Courses		(0-12)
Select 12 credit hours from approved specialization courses ³		0-12

Minimum degree credits required: 30

¹ Up to 12 elective credit hours of 400-level INTM courses may be completed. Up to 12 elective credit hours of 400- or 500-level courses from a different academic discipline may be completed, with adviser and instructor approval.

² Students may complete an optional special project for up to 6 credit hours.

³ Students may select courses in order to fulfill a desired specialization. See Specializations tab on this page for more details.

Specialization Courses

Four industrial specializations are available. To earn a specialization, the student must complete four courses within an identified focus area.

Industrial Facilities

Select a minimum of four courses from the following: 12

INTM 413	Contract Administration for Construction Projects	3
INTM 417	Construction Estimating	3
INTM 507	Construction Technology	3
INTM 515	Advanced Project Management	3
INTM 516	Integrated Facilities Management	3

Total Credit Hours 12

Industrial Sustainability

Select a minimum of four courses from the following: 12

INTM 559	Issues in Industrial Sustainability	3
INTM 560	Sustainability of Critical Materials	3
INTM 561	Energy Options in Industry	3
INTM 562	Special Topics in Sustainability	3

Total Credit Hours 12

Manufacturing Technology

Select a minimum of four courses from the following: 12

INTM 406	Quality Control	3
INTM 531	Manufacturing Processes for Metals and Mechanical Systems	3
INTM 532	Manufacturing Processes for Electronics and Electrical Systems	3
INTM 533	Chemical Manufacturing Processes in Industry	3
INTM 546	Manufacturing and Logistics Information Systems	3

Total Credit Hours 12

Supply Chain Management

Select a minimum of four courses from the following:

12

INTM 432	Sales and Operations Planning	3
INTM 509	Inventory Control	3
INTM 530	Transportation	3
INTM 540	Supply Chain Management	3
INTM 542	Warehousing and Distribution	3
INTM 543	Purchasing	3
INTM 544	Export/Import	3
INTM 546	Manufacturing and Logistics Information Systems	3
INTM 547	Supply Chain Strategies	3

Total Credit Hours

12