BACHELOR OF INDUSTRIAL TECHNOLOGY AND MANAGEMENT

Admission Requirements

Candidates must complete an application for undergraduate admission and submit official transcripts from all colleges attended. The BINTM program nominally requires the transfer of 60 credit hours as outlined in the following admission requirements:

Mathematics [1]

Five to six credit hours at the level of MATH 119 (at IIT) or above. Statistics highly recommended. Technical mathematics is also accepted. See Illinois Tech Core Curriculum, section D.

Natural Science [1]

10 to 11 credit hours of science or engineering courses. Relevant courses include physics, chemistry, or biology (physics highly recommended). Up to six credit hours may be in engineering graphics/drafting/CAD. Two sequential courses must be completed in a single field and the third course must be in a different field. In certain cases, technology courses may satisfy requirement. See Illinois Tech Core Curriculum, section D.

Computer Science

Three credit hours of computer literacy/programming.

Humanities and Social Sciences

Nine credit hours. Humanities courses include literature, philosophy (except logic), and history. Social sciences typically include anthropology, geography, political science, psychology, sociology, and economics (recommended). A minimum of three credit hours in humanities and three credit hours in social sciences is required.

Technical Coursework

31 credit hours. (Candidates with adequate college credit but lacking the technical coursework may qualify for admission based on a strong interest and/or relevant industrial experience.)

[1] A minimum 16 credit hours is required between mathematics and natural science or engineering.

Required Courses

A total of 126 semester hours are required for the bachelor's degree, consisting of 66 credit hours (22 courses) of junior- and senior-level courses completed at Illinois Institute of Technology and the 60 transfer credit hours required for admission. Students may attend on a part-time or full-time basis, understanding that INTM courses are generally offered evenings to accommodate full-time work schedules of students.

The core curriculum (15 courses) emphasizes proficiency in the essential functions of industrial enterprises with a focus on management-related topics. This coursework includes upper-level humanities and social sciences electives and two Interprofessional Projects (IPRO). In addition, students complete seven electives, generally consisting of three technical electives and four specialization electives. Electives provide in-depth coverage of specific aspects of industrial organizations and their related sectors. Students choose elective courses based on career goals and personal interests, and have the option to complete a formal specialization by taking four courses within one specialty area.

Bachelor of Industrial Technology and Management Requirements

Code	Title	Credit Hours
Admission Transfer Requirements		**(60)**
Details listed under Admission Requirements		60
Industrial Technology Requirements		**(27)**
INTM 301	Communications for the Workplace	3
INTM 315	Industrial Enterprises	3
INTM 322	Industrial Project Management	3
INTM 404	Marketing, Sales, and Product Introduction	3
INTM 408	Cost Management	3
INTM 410	Operations Management	3
INTM 425	Human Resource Management	3
INTM 441	Supply Chain Management	3
INTM 459	Issues in Industrial Sustainability	3
INTM Electives (Technical and/or Specialization)		**(21)**
Select 21 credit hours [1]		21
Humanities Electives		**(6)**
300/400-level courses		6
Social Sciences Electives		**(6)**
300/400-level courses		6
Interprofessional Projects (IPRO)		**(6)**
See Illinois Tech Core Curriculum, section E		6
Total Credit Hours		**126**

[1] See Specializations tab for industrial technology and management specializations. INTM technical electives are specified on this page.

Technical Electives

Code	Title	Credit Hours
INTM 403	Management and Leadership	3
INTM 418	Industrial Risk Management	3
INTM 420	Applied Strategies for the Competitive Enterprise	3
INTM 427	E-Commerce in Marketing and Supply Chain Networks	3
INTM 477	Entrepreneurship in Industry	3

Bachelor of Industrial Technology and Management Curriculum

A suggested program based on half-time attendance. Students may complete coursework at their own pace.

			Year 1
Semester 1	**Credit Hours**	**Semester 2**	**Credit Hours**
INTM 301	3	INTM 322	3
INTM 315	3	INTM Elective	3
INTM 404	3	INTM Elective	3
	9		**9**
			Year 2
Semester 1	**Credit Hours**	**Semester 2**	**Credit Hours**
INTM 410	3	INTM 425	3
INTM Elective	3	INTM Elective	3
Humanities Elective (300+)	3	Social Sciences Elective (300+)	3
	9		**9**
			Year 3
Semester 1	**Credit Hours**	**Semester 2**	**Credit Hours**
INTM 459	3	INTM 441	3
INTM Elective	3	INTM Elective	3
IPRO Elective I	3	Social Sciences Elective (300+)	3
	9		**9**
			Year 4
Semester 1	**Credit Hours**	**Semester 2**	**Credit Hours**
INTM 408	3	IPRO Elective II	3
Humanities Elective (300+)	3	INTM Elective	3
	6		**6**

Total Credit Hours: 66

Industrial Technology and Management Curriculum Specializations

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

Construction Technology (CT)

Covers construction technology, estimating, project management, and contract administration.

Code	Title	Credit Hours
Select four courses from the following:		12
INTM 407	Construction Technology	3
INTM 413	Contract Administration for Construction Projects	3
INTM 415	Advanced Project Management	3
INTM 417	Construction Estimating	3
CAE 471	Construction Planning and Scheduling	3
CAE 472	Construction Site Operation	3
Total Credit Hours		**12**

Facilities Management (FM)

Covers facilities operations and maintenance (O&M), the role and responsibilities of the facilities manager, integration of new technologies, energy efficiency in buildings, and activities required for LEED certification.

Code	Title	Credit Hours
Select four courses from the following:		12
INTM 405	Maintenance Technology and Management	3
INTM 411	Functional Facilities Management	3
INTM 413	Contract Administration for Construction Projects	3
INTM 415	Advanced Project Management	3
INTM 416	Integrated Facilities Management	3
INTM 419	Budgeting and Finance for Facility Managers	3
INTM 423	Sustainable Facilities Operations	3
Total Credit Hours		**12**

Industrial Sustainability (ST)

Covers a range of issues in industrial sustainability, critical material resources, and alternative energies.

Code	Title	Credit Hours
INTM 423	Sustainable Facilities Operations	3
INTM 460	Sustainability of Critical Materials	3
INTM 461	Energy Options for Industry	3
INTM 462	Special Topics in Sustainability	3
Total Credit Hours		**12**

Manufacturing Technology (MT)

Covers advanced technologies, process optimization, automation, quality control, and information systems.

Code	Title	Credit Hours
Select four courses from the following:		12
INTM 406	Quality Management Systems	3
INTM 434	Digital Transformation	3
INTM 435	Performance Management in Food Operations	3
INTM 436	Lean Manufacturing	3
INTM 437	Smart Factory Automation	3
INTM 438	Advanced Machining for Manufacturing 1	3
INTM 439	Advanced Machining for Manufacturing 2	3
INTM 446	Manufacturing and Logistics Information Systems	3
INTM 448	Agile Methodologies for New Product/Process Development	3
INTM 452	Pharmaceutical Manufacturing Technologies, Regulation and Practice	3
Total Credit Hours		**12**

Supply Chain Management (SCM)

Covers strategic supply chain management, inventory, information systems, warehousing and distribution, purchasing, transportation, and export/import activities.

Code	Title	Credit Hours
Select four courses from the following:		12
INTM 427	E-Commerce in Marketing and Supply Chain Networks	3
INTM 430	Global Logistics Management	3
INTM 432	Sales and Operations Planning	3
INTM 442	Warehousing and Distribution	3
INTM 443	Purchasing	3
INTM 444	Export/Import	3

INTM 446	Manufacturing and Logistics Information Systems	3
Total Credit Hours		**12**