

# BACHELOR OF INDUSTRIAL TECHNOLOGY AND MANAGEMENT

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## Admission Requirements

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

### Mathematics <sup>1</sup>

5 to 6 credit hours at the level of trigonometry or above. Technical mathematics is also accepted. See IIT Core Curriculum, section D .

### Natural Science <sup>1</sup>

10 to 11 credit hours of science or engineering courses. Relevant courses include physics, chemistry, or biology (physics highly recommended). Up to 6 credit hours may be in engineering graphics/drafting. 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 IIT Core Curriculum, section D .

### Computer Science

3 credit hours of computer literacy/programming.

### Humanities and Social Sciences

9 credit hours. Humanities courses include literature, philosophy (except logic), and history. Social sciences typically include anthropology, geography, political science, psychology, sociology, and economics. A minimum of 3 credit hours in humanities and 3 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.)

<sup>1</sup> 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

|   |  |      |
|---|--|------|
| <b>Admission Transfer Requirements</b>      |  | (60) |
| Details listed under Admission Requirements |  | 60   |
| <b>Industrial Technology Requirements</b>   |  | (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 409                                    | Inventory Control                          | 3    |
| INTM 410                                    | Operations Management                      | 3    |
| INTM 425                                    | Human Resource Management                  | 3    |
| INTM 432                                    | Sales and Operations Planning              | 3    |

|   |            |
|---|------------|
| <b>INTM Electives (Technical and/or Specialization)</b> | (21)       |
| Select 21 credit hours <sup>1</sup>                     | 21         |
| <b>Humanities Electives</b>                             | (6)        |
| 300/400-level courses                                   | 6          |
| <b>Social Sciences Electives</b>                        | (6)        |
| 300/400-level courses                                   | 6          |
| <b>Interprofessional Projects (IPRO)</b>                | (6)        |
| See IIT Core Curriculum, section E                      | 6          |
| <b>Total Credit Hours</b>                               | <b>126</b> |

<sup>1</sup> See Specializations tab for industrial technology and management specializations. INTM technical electives are specified on this page.

### Technical Electives

|          |   |   |
|----------|---|---|
| INTM 314 | Maintenance Technology and Management             | 3 |
| INTM 319 | Electronics in Industry                           | 3 |
| INTM 414 | Topics in Industry                                | 3 |
| INTM 418 | Industrial Risk Management                        | 3 |
| INTM 420 | Applied Strategies for the Competitive Enterprise | 3 |
| INTM 427 | E-Commerce  | 3 |
| INTM 441 | Supply Chain Management                           | 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.

|                            |                     | <b>Year 1</b>                   |                     |
|----------------------------|---------------------|---------------------------------|---------------------|
| <b>Semester 1</b>          | <b>Credit Hours</b> | <b>Semester 2</b>               | <b>Credit Hours</b> |
| INTM 301                   | 3                   | INTM 322                        | 3                   |
| INTM 315                   | 3                   | INTM Elective                   | 3                   |
| INTM 410                   | 3                   | INTM Elective                   | 3                   |
|                            |                     | 9                               | 9                   |
|                            |                     | <b>Year 2</b>                   |                     |
| <b>Semester 1</b>          | <b>Credit Hours</b> | <b>Semester 2</b>               | <b>Credit Hours</b> |
| INTM 404                   | 3                   | INTM 409                        | 3                   |
| INTM Elective              | 3                   | INTM Elective                   | 3                   |
| Humanities Elective (300+) | 3                   | Social Sciences Elective (300+) | 3                   |
|                            |                     | 9                               | 9                   |
|                            |                     | <b>Year 3</b>                   |                     |
| <b>Semester 1</b>          | <b>Credit Hours</b> | <b>Semester 2</b>               | <b>Credit Hours</b> |
| INTM 432                   | 3                   | INTM 425                        | 3                   |
| INTM Elective              | 3                   | INTM Elective                   | 3                   |
| I PRO Elective I           | 3                   | Social Sciences Elective (300+) | 3                   |
|                            |                     | 9                               | 9                   |
|                            |                     | <b>Year 4</b>                   |                     |
| <b>Semester 1</b>          | <b>Credit Hours</b> | <b>Semester 2</b>               | <b>Credit Hours</b> |
| INTM 408                   | 3                   | I PRO Elective II               | 3                   |
| Humanities Elective (300+) | 3                   | INTM Elective                   | 3                   |
|                            |                     | 6                               | 6                   |

Total Credit Hours: 66

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

## Industrial Facilities (IF)

Covers construction, project management, and renovation and maintenance of buildings, facilities, and equipment. Four courses are required for this specialization.

|          |   |   |
|----------|---|---|
| INTM 407 | Construction Technology                           | 3 |
| INTM 413 | Contract Administration for Construction Projects | 3 |
| INTM 415 | Advanced Project Management                       | 3 |
| INTM 416 | Integrated Facilities Management                  | 3 |
| INTM 417 | Construction Estimating                           | 3 |

## Industrial Sustainability (ST)

Covers a range of issues in industrial sustainability, critical material resources, and alternative energies. Four courses are required for this specialization.

|          |                                      |   |
|----------|--------------------------------------|---|
| INTM 459 | Issues in Industrial Sustainability  | 3 |
| INTM 460 | Sustainability of Critical Materials | 3 |
| INTM 461 | Energy Options for Industry          | 3 |
| INTM 462 | Special Topics in Sustainability     | 3 |

## Manufacturing Technology (MT)

Covers manufacturing processes for metals, chemical, and electronic industries, information systems, and quality control. Four courses are required for this specialization.

|          |  |   |
|----------|--|---|
| INTM 406 | Quality Control  | 3 |
| INTM 412 | Manufacturing Processes for Metals and Mechanical Systems      | 3 |
| INTM 431 | Manufacturing Processes for Electronics and Electrical Systems | 3 |
| INTM 433 | Chemical Manufacturing Processes in Industry                   | 3 |
| INTM 446 | Manufacturing and Logistics Information Systems                | 3 |

## Supply Chain Management (SCM)

Covers strategic supply chain management, warehousing and distribution, purchasing, transportation, and export/import. Four courses are required for this specialization.

|          |   |   |
|----------|---|---|
| INTM 430 | Transportation                                  | 3 |
| INTM 441 | Supply Chain Management                         | 3 |
| INTM 442 | Warehousing and Distribution                    | 3 |
| INTM 443 | Purchasing                                      | 3 |
| INTM 444 | Export/Import                                   | 3 |
| INTM 446 | Manufacturing and Logistics Information Systems | 3 |

## Telecommunication Technology (TT)

Covers management and maintenance of data networks, network configurations, network security, and evolving technologies, including voice over IP. Four courses are required for this specialization.

|          |  |   |
|----------|--|---|
| ITMO 440 | Introduction to Data Networks and the Internet | 3 |
| ITMO 441 | Network Administration and Operations          | 3 |
| ITMS 448 | Cyber Security Technologies                    | 3 |
| INTM 449 | Telecommunications Over Data Networks          | 3 |