## Waubonsee MTT Required Coursework

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Transfers to Illinois Tech as...</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM 100</td>
<td>Fund. of Speech (3) -or- COM 121 Comm in the Workplace (3)</td>
<td>ENG courses satisfy IIT’s Writing Proficiency Requirement</td>
</tr>
<tr>
<td>ENG 101</td>
<td>First Yr Comp. I (3) -or- ENG 152 Business Communication (3)</td>
<td>INTM 301 (Taking both ENG 153 + COM 121 -or- ENG 152)</td>
</tr>
<tr>
<td>ENG 102</td>
<td>First Yr Comp. II (3) -or- ENG 153 Technical Writing (3)</td>
<td></td>
</tr>
</tbody>
</table>

### Mathematics: 1 course (3 credits)

- One course from Section F, IIT-Waubonsee Transfer Credits List
  - [http://web.iit.edu/ugaa/transfer-credits/waubonsee/](http://web.iit.edu/ugaa/transfer-credits/waubonsee/)
  - Math (MTH 101 or MTH 107 recommended)

### Social and Behavioral Science: 1 course (3 credits)

- One course from Section C, IIT-Waubonsee Transfer Credits List
  - Social Science (ECN 100, PSYC 100, or SOC 100 recommended)

### MTT Major/Technical Coursework: 12 courses (31 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTT 100</td>
<td>Safety Principles (1)</td>
<td>Technical coursework</td>
</tr>
<tr>
<td>MTT 101</td>
<td>Introduction to Machine Tool (3)</td>
<td>Technical coursework</td>
</tr>
<tr>
<td>MTT 102</td>
<td>Manual Machine Shop Operations (3)</td>
<td>Technical coursework</td>
</tr>
<tr>
<td>MTT 110</td>
<td>Print Reading for Manufacturing (2)</td>
<td>Technical coursework</td>
</tr>
<tr>
<td>MTT 111</td>
<td>Metrology/Mechanical Inspection (2)</td>
<td>Technical coursework</td>
</tr>
<tr>
<td>MTT 112</td>
<td>Metallurgy Principles (2)</td>
<td>Natural Science/Engineering (Physics)</td>
</tr>
<tr>
<td>MTT 120</td>
<td>CNC Operations (3)</td>
<td>Technical coursework</td>
</tr>
<tr>
<td>MTT 125</td>
<td>CNC Mill Programming (3)</td>
<td>Computer Science</td>
</tr>
<tr>
<td>MTT 126</td>
<td>CNC Lathe Programming (3)</td>
<td>Technical coursework</td>
</tr>
<tr>
<td>MTT 200</td>
<td>Computer Aided Machining (CAM) (3)</td>
<td>Technical coursework</td>
</tr>
<tr>
<td>MTT 201</td>
<td>Advanced CAM Programming (3)</td>
<td>Technical coursework</td>
</tr>
<tr>
<td>MTT 202</td>
<td>Job Shop Processes (3)</td>
<td>Technical coursework</td>
</tr>
</tbody>
</table>

### Electives: 4-5 courses (14 credits)

- Select courses from ABR, AMT, AUT, BUS, CAD, CIS, CMT, EGR, ELT, HVA, IDT, MTT, WLD
- Recommended: ELT 110 (4)
- Recommended: CAD 100 (3) and CAD 102 (3)
- Recommended: MTT 103 (2) and MTT 104 (2)

**TOTAL CREDITS REQUIRED FOR WAUBONSEE AAS IN MTT/ADVANCED MANUFACTURING TECHNOLOGY: 60**

### Additional course(s)* required for transfer to IIT: 3 course (9 credits)

- **MATH (3):** At WCC, MTH 107 Basic Statistics recommended, or take one course from Section F, IIT-Waubonsee Transfer Credits List
- **SOCIAL SCIENCE (3):** At WCC, select one course from Section C, IIT-Waubonsee Transfer Credits List; PSYC or SOC recommended.
- **HUMANITIES (3):** At Waubonsee, select one course from Section B, IIT-Waubonsee Transfer Credits List
  - [http://web.iit.edu/ugaa/transfer-credits/waubonsee/industrial-or-information-technology](http://web.iit.edu/ugaa/transfer-credits/waubonsee/industrial-or-information-technology)

*Equivalent coursework completed at another institution may satisfy this requirement. Students with college credit over and above that taken for Waubonsee AAS in MTT/Advanced Manufacturing Technology should consult with INTM at IIT before taking additional courses.*
### Intermountain Admission Requirements: 60 credits

<table>
<thead>
<tr>
<th>Technical Coursework: 31 credits</th>
<th>Satisfied by Waubonsee AAS Coursework</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics: 5-6 credits</td>
<td>MTT Major/Technical Coursework</td>
</tr>
<tr>
<td>Natural Science/Engineering: 10-11 credits</td>
<td>MTT 112, ELT 110, CAD 100, CAD 102</td>
</tr>
<tr>
<td>Computer Science: 3 credits</td>
<td>MTT 125</td>
</tr>
<tr>
<td>Humanities/Social Sciences: 9 credits</td>
<td>See above and IIT-Waubonsee Transfer Credits List</td>
</tr>
</tbody>
</table>

### Illinois Tech/INTM Coursework

**Core Curriculum: 45 credits**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>INTM 301</td>
<td>Communications for the Workplace (3)</td>
</tr>
<tr>
<td>INTM 315</td>
<td>Industrial Enterprises (3)</td>
</tr>
<tr>
<td>INTM 322</td>
<td>Industrial Project Management (3)</td>
</tr>
<tr>
<td>INTM 404</td>
<td>Marketing, Sales and Product Introduction (3)</td>
</tr>
<tr>
<td>INTM 408</td>
<td>Cost Management (3)</td>
</tr>
<tr>
<td>INTM 409</td>
<td>Inventory Control (3)</td>
</tr>
<tr>
<td>INTM 410</td>
<td>Operations Management (3)</td>
</tr>
<tr>
<td>INTM 425</td>
<td>Human Resource Management (3)</td>
</tr>
<tr>
<td>INTM 432</td>
<td>Sales &amp; Operations Planning (3)</td>
</tr>
<tr>
<td>INTM 434</td>
<td>Humanities (6 credits): Two (2) 300- or 400-level courses; choose from HIST, HUM, PHIL or LIT</td>
</tr>
<tr>
<td>INTM 435</td>
<td>Social Science (6 credits): Two (2) 300- or 400-level courses: choose from PSYC, PS, SOC or ECON</td>
</tr>
<tr>
<td>INTM 436</td>
<td>Interprofessional Project (IPRO) (6 credits)</td>
</tr>
</tbody>
</table>

**INTM Technical and Specialization Electives (21 credits)**

Select seven (7) courses from all electives listed below. Completing a specialization is optional.

To complete a specialization, student must complete four (4) courses within an identified focus area.

All courses below earn 3 credits.

**General Technical Electives**

- INTM 314: Maintenance Technology and Management
- INTM 319: Electronics in Industry
- INTM 414: Topics in Industry
- INTM 418: Industrial Risk Management
- INTM 420: Applied Strategies for the Competitive Enterprise
- INTM 477: Entrepreneurship in Industry

**Specialization Electives**

**Industrial Facilities (IF)**

- INTM 407: Construction Technology
- INTM 413: Contract Administration for Construction Projects
- INTM 415: Advanced Project Management
- INTM 416: Integrated Facilities Management
- INTM 417: Construction Estimating
- INTM 423: Sustainable Facilities Operations

**Manufacturing Technology (MT)**

- INTM 406: Quality Control
- INTM 412: Mfg Processes for Metals/Mechanical Systems
- INTM 431: Mfg Processes for Electronics/Electrical Systems
- INTM 433: Chemical Manufacturing Processes in Industry
- INTM 435: Performance Management in Food Operations
- INTM 446: Manufacturing and Logistics Info Systems

**Telecommunication Technology (TT)**

- ITMO 440: Introduction to Data Networks and the Internet
- ITMO 441: Network Applications and Operations
- ITMS 448: Cyber Security Technologies
- INTM 449: Telecommunications over Data Networks

**Industrial Sustainability (ST)**

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

**Supply Chain Management (SCM)**

- INTM 427: E-Commerce in Marketing and Supply Chain Networks
- INTM 430: Transportation
- INTM 441: Supply Chain Management
- INTM 442: Warehousing and Distribution
- INTM 443: Purchasing
- INTM 444: Export/Import
- INTM 446: Manufacturing and Logistics Info Systems

**TOTAL CREDITS TO BE COMPLETED AT ILLINOIS TECH: 66**

**TOTAL CREDITS REQUIRED FOR BAC IN INDUSTRIAL TECHNOLOGY & MANAGEMENT: 126**
FOR MORE INFORMATION...

WAUBONSEE COMMUNITY COLLEGE
Sugar Grove Campus
Route 47 at Waubonsee Drive
Sugar Grove, IL 60554-9454

Sarah Kocunik
Graduation/Transfer Coordinator
630.466.7900 x2933
skocunik@waubonsee.edu

Dr. David Beer
Assistant Dean for Business and Career Technologies
630.466.7900 x 2264
dbeer@waubonsee.edu

MTT Program Description: http://www.waubonsee.edu/learning/academics/career/machineTool/840/index.php
Waubonsee Admissions Procedure: http://www.waubonsee.edu/admission/enroll/index.php

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houser@iit.edu

IIT Office of Undergraduate Admissions
312.567.3025
admission@iit.edu
http://admissions.iit.edu/undergraduate/

INTM Department Website: http://appliedtech.iit.edu/intm
INTM Program Description: http://appliedtech.iit.edu/industrial-technology-and-management/programs
INTM Admission: http://appliedtech.iit.edu/industrial-technology-and-management/admissions/undergraduate-admission
IIT/INTM Scholarship Information: http://appliedtech.iit.edu/industrial-technology-and-management/admissions/scholarship
IIT Online Application for Transfer Students: http://admissions.iit.edu/undergraduate/apply/transfer-applications