Harper College students can expand their career options and professional abilities by transferring into the Bachelor of Industrial Technology and Management (INTM) program at Illinois Tech. The INTM program is designed to broaden students' knowledge of how to manage operations, resources, and technology within an industrial organization. This transfer guide outlines curriculum for both programs and identifies how the Harper coursework aligns with admission requirements for the INTM degree. Courses must be graded ‘C’ or better in order to transfer, and a maximum of 68 hours can be accepted from a 2-year institution.

Harper AMT/SCM Required Coursework

<table>
<thead>
<tr>
<th>Communications: 2 courses (6 credits)</th>
<th>Transfers to Illinois Tech as...</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 101 Composition (3)</td>
<td>Communications/COM 101 (Writing Proficiency)</td>
</tr>
<tr>
<td>ENG 103 Technical &amp; Report Writing -or- SPE 101 Fund of Speech (3)</td>
<td>ENG 103 may be applied as INTM 301 (IIT core)</td>
</tr>
</tbody>
</table>

Mathematics: 1 course (3 credits)

| MTH 097 Basic Technical Mathematics (3) | MTH 097 non-transferable; take MTH 101, 124, 134, 140 or 165 |

Social Science: 2 courses (6 credits)

| Electives Two courses from Section C, IIT-Harper Transfer Credits [link](http://web.iit.edu/ugaa/transfer-credits/harper/) | PSY or SOC, and ECO recommended |

Humanities: 1 course (3 credits)

| Elective One course from Section B, IIT-Harper Transfer Credits [link](http://web.iit.edu/ugaa/transfer-credits/harper/) | HUM, HST or PHI recommended |

AMT/SCM Major/Technical Coursework: 13 courses (37 credits)

| MFT 102 Introduction to Manufacturing and Safety (4) | Technical coursework |
| MFT 104 Quality and Measurement (2) | Technical coursework |
| MFT 108 Manufacturing Processes (3) | Technical coursework |
| MFT 109 Introduction to Manufacturing Maintenance (2) | Technical coursework |
| MFT 119 Manufacturing Internship (2) | -- |
| SCM 101 Supply Chain Management (3) | Technical coursework |
| SCM 120 Production Control (3) | Technical coursework |
| SCM 122 Inventory Management (3) | Technical coursework |
| SCM 123 Transportation (3) | Technical coursework |
| SCM 124 Warehouse Operations (3) | Technical coursework |
| SCM 125 Procurement (3) | Technical coursework |
| SCM 126 Demand Planning (3) | Technical coursework |
| SCM 226 Advanced Planning and Integration (3) | Technical coursework |

AMT/SCM Electives: 2 courses (5 credits)

| Select courses from ELT, MFT, MNT, SCM or WLD | Take ELT 110 (4) plus ELT 125 (2) or ELT 135 (2), which can be applied as Natural Science/Physics at IIT |

TOTAL CREDITS REQUIRED FOR HARPER AAS IN AMT/SCM: 60

Additional course(s)* required for transfer to IIT: 3-4 courses (10-13 credits)

- MATH (3-6): If MTH 097 taken for core, two MTH courses needed from Section F, IIT-Harper Transfer Credits List. MTH 165 recomm.
- NATURAL SCIENCE/ENGINEERING (4): If ELT 110 and ELT 125 or 135 are taken to satisfy AMT/SCM electives, one additional 4-credit course (other than Physics, Physical Science, Astronomy or Geology) will be required; BIO or CHM recommended. If ELT 110, 125 and 135 are taken (totaling 8 credits), then one additional 3-credit course (BIO, CHM or EGR 120) would be required.
- If ELT courses are not taken as AMT/SCM electives, a total of 3 courses (10 credits) must be completed to satisfy this requirement, with 2 courses in a single field and the 3rd course in a separate field. Up to 6 credits may be in Drafting/Engineering Graphics.
- COMPUTER SCIENCE (3): CIS 101 or CIS 106

*Equivalent coursework completed at another institution may satisfy this requirement. Students with college credit over and above that taken for Harper AAS in AMT/SCM should consult with INTM at Illinois Tech before taking additional courses.
### INTM Admission Requirements: 60 credits

<table>
<thead>
<tr>
<th>Technical Coursework: 31 credits</th>
<th>Satisfied by Harper AAS Coursework</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics: 5-6 credits</td>
<td>SCM Major/Technical Courses</td>
</tr>
<tr>
<td>Natural Science/Engineering: 10-11 credits</td>
<td>Two MTH courses as identified above</td>
</tr>
<tr>
<td>Computer Science: 3 credits</td>
<td>ELT 110, ELT 125/ELT 135, plus BIO, CHM or EGR 120</td>
</tr>
<tr>
<td>Humanities/Social Sciences: 9 credits</td>
<td>CIS 101 or 106</td>
</tr>
</tbody>
</table>

**Illinois Tech/INTM Coursework**

**Core Curriculum: 45 credits**

- INTM 301 Communications for the Workplace (3) | Humanities (6 credits): Two (2) 300- or 400-level courses (choose from HIST, HUM, PHIL or LIT)
- 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 & Operations Planning (3)  

**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 Facilities and Construction Administration  
- 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 Processes in Industry  
- INTM 435 Performance Management for 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

TOTAL CREDITS TO BE COMPLETED AT ILLINOIS TECH**: 60-66

TOTAL CREDITS REQUIRED FOR BAC IN INDUSTRIAL TECHNOLOGY & MANAGEMENT: 126

OVERALL CREDITS REQUIRED**: 130-139 (Harper: 60>AAS + 10-13>GenEd + IIT: 60-66)

** Total credits required based on amount and makeup of transfer credit from Harper College; all courses must be graded "C" or better to transfer
FOR MORE INFORMATION...

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AMT/SCM Program Description: http://goforward.harpercollege.edu/academics/areas/transportation/index.php
Harper College Online Application: http://goforward.harpercollege.edu/start/apply/

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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