

TRANSFER GUIDE: HARPER COLLEGE TO ILLINOIS INSTITUTE OF TECHNOLOGY

**AAS in Advanced Manufacturing Technology-Metal Fabrication (AMT/METFAB) -to-
BAC in Industrial Technology and Management (BINTM)**

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/METFAB Required Coursework	Transfers to Illinois Tech as...
<p><u>Communications: 2 courses (6 credits)</u> ENG 101 Composition (3) ENG 103 Technical & Report Writing <u>-or-</u> SPE 101 Fund of Speech (3)</p> <p><u>Mathematics: 1 course (3 credits)</u> Choose MTH 101, MTH 103 or higher level math</p> <p><u>Social Science: 2 courses (6 credits)</u> <i>Electives</i> Two courses from Section C, IIT-Harper Transfer Credits https://web.iit.edu/ugaa/hc-industrial-technology-and-management</p> <p><u>Humanities: 1 course (3 credits)</u> <i>Elective</i> One course from Section B, IIT-Harper Transfer Credits https://web.iit.edu/ugaa/hc-industrial-technology-and-management</p> <p><u>AMT/METFAB Major/Technical Coursework: 14 courses (43 credits)</u> MFT 102 Introduction to Manufacturing and Safety (4) MFT 104 Quality and Measurement (2) MFT 108 Manufacturing Processes (3) MFT 109 Introduction to Manufacturing Maintenance (2) MFT 119 Manufacturing Internship (2) MFT 134 Print Reading for Industry (3) WLD 110 Welding I (3) WLD 210 Welding II (3) WLD 211 Welding III (4) WLD 212 Welding IV (4) WLD 240 Cutting Processes (3) WLD 225 Advanced Blueprint Reading (2) WLD 245 Welding Fabrication I (4) WLD 250 Welding Fabrication II (4)</p>	<p>Communications/COM 101 (Writing Proficiency) ENG 103 may be applied as INTM 301 (IIT core)</p> <p>MTH 097 non-transferable; take MTH 101, 103, 124, 134, 140 or 165</p> <p>PSY or SOC, and ECO recommended</p> <p>HUM, HST, LIT or PHI (not PHI 101 or 102). NOTE: this course should satisfy Harper's World Cultures & Diversity Requirement</p> <p>Technical coursework Technical coursework Technical coursework Technical coursework -- Technical coursework Technical coursework Technical coursework Technical coursework Technical coursework Technical coursework Technical coursework Technical coursework Technical coursework Technical coursework</p>
<p>TOTAL CREDITS REQUIRED FOR HARPER AAS IN AMT/METAL FABRICATION: 61</p>	
<p><u>Additional course(s)* required for transfer to IIT: 5-6 courses (15-18 credits)</u></p> <ul style="list-style-type: none"> - MATH (3): One Math course in addition to that taken above for General Education requirements; MTH 165 recommended. - NATURAL SCIENCE/ENGINEERING (10): To meet IIT's Natural Science/Engineering requirements, a total of 3 courses must be completed, with 2 courses in a single field and the 3rd course in a separate field. Up to 6 credits may be in Drafting/Eng Graphics. AMT/METFAB students may take ELT 110 (4) and ELT 135 (2), plus a 4-credit course in BIO or CHM -or- 4 credits in CAD/Drafting. - COMPUTER SCIENCE (2): Take ELT 140 (2) or CIS 101 or 106 (3) 	

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

INTM Admission Requirements: 60 credits	Satisfied by Harper AAS Coursework
Technical Coursework: 31 credits	AMT/METFAB Major/Technical Courses
Mathematics: 5-6 credits	Two MTH courses as identified above
Natural Science/Engineering: 10-11 credits	ELT 110 and ELT 135, plus BIO or CHM or CAD/Eng. Graphics
Computer Science: 3 credits	ELT 140 or CIS 101 or 106
Humanities/Social Sciences: 9 credits	1 HUM (HST or HUM) and 2 SOC SCI (PSY, SOC or ECO)

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)	Social Science (6 credits): Two (2) 300- or 400-level courses (choose from PSYC, PS, SOC or ECON)
INTM 322 Industrial Project Management (3)	Interprofessional Project (IPRO) (6 credits)
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 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.	
<u>General Technical Electives</u>	
INTM 319 Electronics in Industry	INTM 420 Applied Strategies for the Competitive Enterprise
INTM 418 Industrial Risk Management	INTM 477 Entrepreneurship in Industry
<u>Specialization Electives</u>	
Construction Technology (CT)	
INTM 407 Construction Technology	Manufacturing Technology (MT)
INTM 413 Contract Administration for Construction Projects	INTM 406 Quality Control
INTM 415 Advanced Project Management	INTM 434 Manufacturing 4.0
INTM 417 Construction Estimating	INTM 435 Performance Management for Food Operations
	INTM 436 Lean Manufacturing
	INTM 437 Smart Factory Automation
	INTM 438 Advanced Metals Manufacturing I
	INTM 446 Manufacturing and Logistics Info Systems
	INTM 448 Agile Methodologies for New Product/Process Dev.
Facilities Management (FM)	
INTM 405 Maintenance Technology and Management	Supply Chain Management (SCM)
INTM 411 Functional Facilities Management	INTM 409 Inventory Control
INTM 413 Contract Administration for Construction Projects	INTM 427 E-Commerce in Marketing & Supply Chain Networks
INTM 415 Advanced Project Management	INTM 430 Transportation
INTM 416 Integrated Facilities Management	INTM 432 Sales and Operations Planning
INTM 423 Sustainable Facilities Management	INTM 442 Warehousing and Distribution
	INTM 443 Purchasing
	INTM 444 Export/Import
	INTM 446 Manufacturing and Logistics Info Systems
Industrial Sustainability (ST)	
INTM 423 Sustainable Facilities Operations	
INTM 460 Sustainability of Critical Materials	
INTM 461 Energy Options in Industry	
INTM 462 Special Topics in Industry	
TOTAL CREDITS TO BE COMPLETED AT ILLINOIS TECH**: 60-66	
TOTAL CREDITS REQUIRED FOR BAC IN INDUSTRIAL TECHNOLOGY & MANAGEMENT: 126	
OVERALL CREDITS REQUIRED**: 135-138 (Harper: 60>AAS + 15-18>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/METFAB Program Description: <https://www.harpercollege.edu/academics/manufacturing/manufacturing-technology/index.php>

AMT/METFAB Curriculum: https://www.harpercollege.edu/catalog/current/programs/career-certificate/manufacturing_technology_697.php

Harper College Online Application: <https://www.harpercollege.edu/start/apply/index.php>

ILLINOIS INSTITUTE OF TECHNOLOGY

Industrial Technology and Management

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<https://www.iit.edu/admissions-aid/undergraduate-admission>

INTM Department Website: <http://www.iit.edu/intm>

INTM Program Description: <https://www.iit.edu/academics/programs/industrial-technology-and-management-bac>

INTM Admission and Transfer Guidelines: <https://www.iit.edu/intm/student-resources/transfer>

IIT Scholarship Information: <https://www.iit.edu/admissions-aid/tuition-and-aid>

IIT Online Application for Transfer Students: <https://www.iit.edu/admissions-aid/undergraduate-admission/transfer-students>