![ILLINOIS INSTITUTE OF TECHNOLOGY]

TRANSFER GUIDE: OAKTON COMMUNITY COLLEGE TO ILLINOIS INSTITUTE OF TECHNOLOGY

AAS in Manufacturing Technology (MFG TECH) (0274)
-to- BAC in Industrial Technology and Management (BINTM)

Oakton Community 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 Oakton's coursework aligns with INTM admission/degree requirements (see page 2). 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.

Oakton MFG TECH Required Coursework	Transfers to Illinois Tech as…
Communications: 2 courses (6 credits)	
EGL 101 Composition I (3)	Communications/COM 101 (Writing Proficiency)
Choose one: EGL 102, 111, 212 or SPE 103 (EGL 111 or 212 recommended)	--
Mathematics: 1 course (3 credits)	
Choose one: MAT 110 or 114 (4) or higher level course	Math; *MAT 122 Trigonometry (4) highly recommended*
Science: 1 course (3 credits)	
Choose one: PHY 101 (4) recommended	Natural Science (Physics)
Social and Behavioral Sciences: 1 course (3 credits)	
Choose one*: ANT, ECO, GEG, PSC, PSY, SOC, SSC	Social Science; *non-transferable courses include PSY 230, 231,*
*Global Studies course recommended, Oakton CC 2018 Catalog, pg. 59-63	*PSY 240, SOC 240, SSC 240. See IIT's Transfer Credits List at*
https://www.oakton.edu/about/instpubs/catalog2018-19.pdf	https://web.iit.edu/ugaa/occ-industrial-technology-and-management
Humanities/Fine Arts: 1 course (3 credits)	
Choose one**: EGL, HIS, HUM or PHL (not 105)	Humanities; *take EGL course from 113-242, however EGL 150, 210*
**U.S. Diversity Studies course recommended, Oakton CC 2018 Catalog, pg. 64	*& EGL 212 are non-transferable*
MFG TECH Required Courses: 10 courses (36-37 credits)	
CAD 116 Basic AutoCAD (3)	Technical coursework
CIS 101 Intro to CIS -or- CIS 103 Computer Software & Concepts (3)	Computer Science
ELT 101 Introduction to Electronics (5)	Natural Science (Physics)
ENG 120 Engineering Graphics (3)	Natural Science/Engineering (Eng. Graphics)
MFG 135 Hydraulics, Pneumatics and Controls (3)	Technical coursework
MFG 140 Introduction to Robotics and Vision Systems (4) -or-	Technical coursework
MFG 111 Introduction to Manufacturing Automation Systems (3)	Technical coursework
MFG 144 Introduction to CNC Programming (4)	Technical coursework
MFG 165 MASTERCAM Computer Aided Manufacturing (4)	Technical coursework
MFG 240 Programmable Controllers (PLC) (4)	Technical coursework
MFG 145 Advanced CNC Programming (4) -or-	Technical coursework
MFG 250 Advanced PLC/Automation Applications (4)	Technical coursework
Additional electives: 1-2 courses (5-6 credits)	
Choose from: CAD, FME, MEC, or MFG to complete 60 credit requirement	Technical coursework

TOTAL CREDITS REQUIRED FOR OAKTON AAS IN MANUFACTURING TECHNOLOGY: 60

Additional course(s) required for transfer to IIT: 2 courses

Courses below are required to fulfill IIT General Education/Core Curriculum requirements. Equivalent coursework completed at another institution may satisfy this requirement. Students with college credit over and above that taken for Oakton's AAS in MFG TECH should consult with INTM at IIT before taking additional courses.

- MATH (2-3 credits): Take MAT 122 Trigonometry (if not taken previously) or MAT 131 Elementary Statistics
- HUMANITIES or SOCIAL SCIENCE (3 credits): Select one course from IIT-Oakton Transfer Credits List, Section B or C, at
https://web.iit.edu/ugaa/occ-industrial-technology-and-management

INTM Admission Requirements: 60 credits	Satisfied by Oakton MFG TECH Coursework
Technical Coursework: 31 credits	MFG TECH Major & Elective Courses
Mathematics: 5-6 credits	Two MAT courses as identified above
Natural Science/Engineering: 10-11 credits	PHY 101, ELT 101 and ENG 120
Computer Science: 3 credits	CIS 101, 103 or other CIS course
Humanities/Social Sciences: 9 credits	1 HUM, 1 SOC SCI + 1 HUM or SOC SCI (as indicated above)

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
INTM 315	Industrial Enterprises (3)	(choose from HIST, HUM, PHIL or LIT)
INTM 322	Industrial Project Management (3)	Social Science (6 credits): Two (2) 300- or 400-level courses
INTM 404	Marketing, Sales and Product Introduction (3)	(choose from PSYC, PS, SOC or ECON)
INTM 408	Cost Management (3)	Interprofessional Project (IPRO) (6 credits)
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; each course earns 3 credits.   Completing a specialization is optional.
To earn a specialization, student must complete four (4) courses within an identified focus area.

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 427	E-Commerce in Marketing and Supply Chain Networks
INTM 477	Entrepreneurship in Industry

Specialization Electives

Industrial Facilities (IF)

INTM 407	Construction Technology
INTM 411	Functional Facilities Management
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 Processes in Industry
INTM 434	Manufacturing 4.0
INTM 435	Performance Management in Food Operations
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

Supply Chain Management (SCM)

INTM 409	Inventory Control
INTM 427	E-Commerce in Marketing and Supply Chain Networks
INTM 430	Transportation
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*: 60-66

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

OVERALL CREDITS REQUIRED*: 126-132 (OAKTON: 60>AAS + 5-6>Add'l Gen Ed + 60-66>IIT)

*Total credits required is based on amount and makeup of transfer credit from Oakton and any other educational institutions; all courses must be
graded "C" or better to transfer. Consult with an IIT academic advisor.

FOR MORE INFORMATION…

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Professor-Chair, Mechanical Design/CAD & Manufacturing	Skokie, Room A100
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MFG TECH Department Website: https://www.oakton.edu/academics/academic_departments/manufacturing/index.php
MFG TECH Program Description: https://www.oakton.edu/academics/degree/mfg.php
Oakton Application Procedures: https://www.oakton.edu/admission/

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ILLINOIS INSTITUTE
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School of Applied Technology

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INTM Website: http://appliedtech.iit.edu/intm
INTM Program Description: http://appliedtech.iit.edu/industrial-technology-and-management/programs
INTM General Transfer Guidelines: http://appliedtech.iit.edu/sites/sat/files/elements/INTM/pdfs/INTM_CC_Transfer_Guidelines.pdf
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 Application for Transfer Students: http://admissions.iit.edu/undergraduate/apply/transfer-applications
IIT Academic Calendar: https://web.iit.edu/registrar/academic-calendar