

## **TRANSFER GUIDE: MORAIN VALLEY CC TO ILLINOIS INSTITUTE OF TECHNOLOGY**

### **AAS in Automation and Engineering Technology (AET) (1521) -to- BAC in Industrial Technology and Management (BINTM)**

Moraine Valley 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 MVCC'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.

MVCC AET Required Coursework	Transfers to Illinois Tech as...
<p><b><u>Communications: 2 courses (6 credits)</u></b></p> <p>COM 101      Composition I (3) COM 103      Speech Fundamentals (3)</p>	<p>Communications/COM 101 (Writing Proficiency) --</p>
<p><b><u>Mathematics: 1 course (2-3 credits)</u></b></p> <p>Choose one:    BUS 120, MTH 120, MTH 133 or higher math</p>	<p>Math; MTH 120 or 133 recommended (<i>BUS 120 not accepted</i>)</p>
<p><b><u>Physical or Life Sciences: 1 course (3 credits)</u></b></p> <p>Choose one:    BIO, CHM, EAS, GEL, NAT, PHS or PHY</p>	<p>Natural Science</p>
<p><b><u>Behavioral Science or Humanities: 1 course (3 credits)</u></b></p> <p>Choose one:    ANT, ECO, GEO, HIS, PSC, PSY, SOC, SSC, HUM, LIT, PHI See <a href="https://web.iit.edu/ugaa/mvcc-industrial-technology-and-management">https://web.iit.edu/ugaa/mvcc-industrial-technology-and-management</a></p>	<p>Humanities/Social Science elective <i>Note: PHI 110, PHI 111, ECO 100 do not transfer</i></p>
<p><b><u>AET Required Career Courses: 15 courses (32-34 credits)</u></b></p> <p>ELT 101      Electricity and Electronics (3) ELT 201      Industrial Controls (3) IMM 101      Mechanical Systems I (3) IMM 120      Fluid Power I: Basic Circuits (3) LAN 111      IT Essentials - A+ (3) LAN 112      Managing IT - A+ (3) MDT 101      Introduction to Drafting (3) MDT 145      Introduction to CAD (3) MDT 201      Manufacturing and Design (3) AET 101      Orientation to AET Careers (1) AET 110      Robotics I (3) AET 210      Automation Capstone (1-3)</p>	<p>Natural Science (Physics) Technical coursework Technical coursework Natural Science (Physics) Technical coursework Technical coursework Natural Science/Engineering (Eng. Graphics) Technical coursework Technical coursework Technical coursework Technical coursework Technical coursework</p>
<p><b><u>AET Electives: 4-5 courses (12-13 credits)</u></b></p> <p>Choose from:    ELT 102, 202, 211, 222; IMM 107, 220; IST 109;                          LAN 121, 122, 153; MDT 110, 115, 125, 205, 213, 285;                          WLD 111</p> <p>Elective Tracks: <i>CAD Automation, Electrical Automation (ELE), IT Automation, Mechanical Automation (MEC), Mechatronics (MET)</i></p>	<p>Technical coursework; ELT 211 recommended (<i>transfers as Computer Science elective</i>)</p>
<b>TOTAL CREDITS REQUIRED FOR MVCC AAS IN AET: 60</b>	
<p><b><u>Additional course(s) required for transfer to IIT: 3 or 4 courses</u></b></p> <p><i>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 MVCC's AAS in AET should consult with INTM at IIT <u>before</u> taking additional courses.</i></p> <ul style="list-style-type: none"> <li>- MATH (2-3 credits): Take MTH 120, 133, or MTH 139 Probability and Statistics (recommended)</li> <li>- HUMANITIES (3 credits): Select one course from HIS, HUM, LIT or PHI (not PHI 110 or 111)</li> <li>- SOCIAL SCIENCE (3 credits): Select one course from ANT, ECO, GEO, PSC, PSY, SOC, SSC</li> <li>- COMPUTER SCIENCE (3 credits): <i>If ELT 211 not taken as AET elective, take ELT 211 or MIS 105</i></li> </ul>	

INTM Admission Requirements: 60 credits	Satisfied by MVCC AET Coursework
<b>Technical Coursework: 31 credits</b> <b>Mathematics: 5-6 credits</b> <b>Natural Science/Engineering: 10-11 credits</b> <b>Computer Science: 3 credits</b> <b>Humanities/Social Sciences: 9 credits</b>	AET Major/Career & Elective Courses Two MTH courses as identified above ELT 101, IMM 120, MDT 101 + one PHY or LIFE SCIENCE course ELT 211 or MIS 105 1 HUM, 1 SOC SCI + 1 HUM or SOC SCI (as indicated above)

Illinois Tech/INTM Coursework
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<b>Core Curriculum: 45 credits</b>	
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)	Social Science (6 credits): Two (2) 300- or 400-level courses (choose from PSYC, PS, SOC or ECON)
INTM 404 Marketing, Sales and Product Introduction (3)	
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)	

<b>INTM Technical and Specialization Electives (21 credits)</b>
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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

**Construction Technology (CT)**

INTM 407 Construction Technology
INTM 413 Contract Administration for Construction Projects
INTM 415 Advanced Project Management
INTM 417 Construction Estimating

**Facilities Management (FM)**

INTM 314 Maintenance Technology and Management
INTM 411 Functional Facilities Management
INTM 416 Integrated Facilities Management
INTM 423 Sustainable Facilities Operations

**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

**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 in Food Operations
INTM 446 Manufacturing and Logistics Info Systems

**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

<b>TOTAL CREDITS TO BE COMPLETED AT ILLINOIS TECH*: 60-66</b>
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<b>TOTAL CREDITS REQUIRED FOR BAC IN INDUSTRIAL TECHNOLOGY &amp; MANAGEMENT: 126</b>
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<b>OVERALL CREDITS REQUIRED*: 134-137 (MVCC: 60&gt;AAS + 8-11&gt;Add'l Gen Ed + 60-66&gt;IIT)</b>
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\*Total credits required is based on amount and makeup of transfer credit from MVCC 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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**MORAIN VALLEY COMMUNITY COLLEGE**

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**MVCC Admissions Office**  
708.974.5355  
[admissions@morainevalley.edu](mailto:admissions@morainevalley.edu)

**MVCC Academic Advising Center**  
708.974.5721  
[advising@morainevalley.edu](mailto:advising@morainevalley.edu)  
[www.morainevalley.edu/academicadvising](http://www.morainevalley.edu/academicadvising)

**AET Program Description:** <https://www.morainevalley.edu/automation-and-engineering-technology/>

**MVCC Application Procedures:** <https://www.morainevalley.edu/admissions/>

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**ILLINOIS INSTITUTE OF TECHNOLOGY**  
**Industrial Technology and Management**  
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Chicago, IL 60616

**School of Applied Technology**   
ILLINOIS INSTITUTE OF TECHNOLOGY

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**IIT Office of Undergraduate Admissions**  
312.567.3025  
[admission@iit.edu](mailto:admission@iit.edu)  
<http://admissions.iit.edu/undergraduate/>

**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](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 Online Application for Transfer Students:** <http://admissions.iit.edu/undergraduate/apply/transfer-applications>