

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

### **AAS in Stationary Engineer (STA ENG) (1329) -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 STA ENG Required Coursework	Transfers to Illinois Tech as...
<p><b><u>Communications: 2 courses (6 credits)</u></b>            COM 101      Composition I (3)            COM 103      Speech Fundamentals (3)</p>	Communications/COM 101 (Writing Proficiency) --
<p><b><u>Mathematics: 1 course (3-4 credits)</u></b>            Choose one:    MTH 120, MTH 139 or MTH 212</p>	Math
<p><b><u>Physical or Life Sciences: 1 course (4 credits)</u></b>            Choose one:    BIO, CHM, EAS, GEL, NAT, PHS or PHY</p>	Natural Science; BIO or CHM recommended
<p><b><u>Social/Behavioral Sciences: 1 course (3 credits)</u></b>            Choose one:    ANT, ECO, GEO, HIS, PSC, PSY, SOC, SSC            See <a href="https://web.ill.edu/ugaa/mvcc-industrial-technology-and-management">https://web.ill.edu/ugaa/mvcc-industrial-technology-and-management</a></p>	Social Science ( <i>ECO 100 does not transfer</i> ) <i>HIS applied as Humanities at Illinois Tech</i>
<p><b><u>STA ENG Required Career Courses: 9 courses (36 credits)</u></b></p>	
HAC 105      Air Conditioning Theory (3)	Natural Science (Physics)
HAC 111      Introduction to Controls (4)	Natural Science (Physics)
HAC 115      Basic Service Procedures (4)	Technical coursework
HAC 140      Sheet Metal Hand Forming (4)	Technical coursework
HAC 150      Advanced Control Systems (4)	Technical coursework
HAC 154      Installation and Service (4)	Technical coursework
HAC 158      Introduction to Heating (4)	Technical coursework
HAC 180      Electronic Controls (5)	Technical coursework
HAC 240      HVAC Troubleshooting (5)	Technical coursework
<p><b><u>STA ENG Electives: 3 courses (9-10 credits)</u></b></p>	<i>Take 1 or 2 Humanities to satisfy IIT Gen Ed Requirements</i>
BUS 110      Legal Environment in Business (3)	Technical coursework
BUS 136      Business Law (3)	Technical coursework
BUS 226      Business Ethics (3)	Technical coursework
COM 102      Composition II (3)	Humanities
HAC 165      Sustainable Energy Practices (4)	Technical coursework
HIS 101      Western Civilization I (3)	Humanities
HUM 135      African & Middle Eastern Humanities (3)	Humanities
HUM 140      Asian & Oceanic Humanities (3)	Humanities
HUM 145      Native American Humanities (3)	Humanities
IMS 115      Microsoft Office I (3)	Technical coursework
SOC 210      Minority Groups (3)	Social Science
TDL 102      Job Skills for Competitive Advantage (3)	Technical coursework
<b>TOTAL CREDITS REQUIRED FOR MVCC AAS IN STA ENG: 62</b>	
<p><b><u>Additional course(s) required for transfer to IIT: 2 or 3 courses (5-9 credits)</u></b>  <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 STA ENG 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): MTH 122, 139 or higher Math</li> <li>- COMPUTER SCIENCE (3 credits): ELT 211 or MIS 105</li> <li>- <i>HUMANITIES: Students who complete 6 credits of Humanities as STA ENG Electives will fulfill IIT's lower-level requirements for Social Science and Humanities (9 credits total). Those completing only 3 credits of Humanities will need to take an additional HUM (HUM, HIS, LIT or PHI).</i></li> </ul>	

INTM Admission Requirements: 60 credits	Satisfied by MVCC STA ENG 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>	STA ENG Major/Career & Elective Courses Two MTH courses as identified above HAC 105, HAC 111 + one BIO or CHM course ELT 211 or MIS 105 1 SOC SCI + 2 HUM (as indicated above)

Illinois Tech/INTM Coursework
-------------------------------

<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)	

**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

**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>
---

<b>TOTAL CREDITS REQUIRED FOR BAC IN INDUSTRIAL TECHNOLOGY &amp; MANAGEMENT: 126</b>
--

<b>OVERALL CREDITS REQUIRED*: 133-137 (MVCC: 62&gt;AAS + 5-9&gt;Add'l Gen Ed + 60-66&gt;IIT)</b>
--

\*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...**

---

**MORAIN VALLEY COMMUNITY COLLEGE**

9000 W. College Parkway  
Palos Hills, IL 60465-2478

---

**Steve Brasel**  
**Department Chair**  
708.974.5632  
[brasels2@morainevalley.edu](mailto:brasels2@morainevalley.edu)

**Joe Adeszko**  
**Program Coordinator**  
708.974.5406  
[adeszko@morainevalley.edu](mailto:adeszko@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)

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

**STA ENG Program Descr:** <http://morainevalley.smartcatalogiq.com/2018-2019/Catalog/Career-Programs/Stationary-Engineer/Stationary-Engineer-A-A-S>

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

---

**ILLINOIS INSTITUTE OF TECHNOLOGY**  
**Industrial Technology and Management**  
3424 S. State Street, Tech South 4001  
Chicago, IL 60616

---

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

**Pamela Houser**  
**Program Manager, INTM**  
312.567.3584  
[houser@iit.edu](mailto:houser@iit.edu)

**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:** <https://admissions.iit.edu/undergraduate/apply/transfer-applications>