

## **TRANSFER GUIDE: CITY COLLEGES OF CHICAGO TO ILLINOIS INSTITUTE OF TECHNOLOGY**

### **AAS in Electrical Construction Technology (ECT) (752) -to- BAC in Industrial Technology and Management (BINTM)**

The Electrical Construction Technology (ECT) AAS degree is a cooperative effort between Daley College and the Electrical Joint Apprenticeship and Training Trust (EJATT). The ECT program requires a separate application for apprentice training through the IBEW-NECA Technical Institute. Upon earning the ECT AAS, 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 managing operations, resources, and technology within an industrial organization. This transfer guide outlines curriculum for both programs and identifies how the ECT 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.

CCC ECT Required Coursework	Transfers to Illinois Tech as...
<b>General Education Coursework (15 credits)</b>	
ENGLISH 101 Composition (3)	Communications/COM 101 (Writing Proficiency)
HISTORY elective (3)	Humanities/HIST, HUM, LIT, PHIL (not 105) or RELIGN accepted
PSYCHOLOGY or SOCIAL & BEHAVIOR SCIENCE (SBS) elective (3)	Social Science/ANTHRO, ECON, GEOGR, POLI SCI, PSYC, SOC or SOC SCI
HUMAN DIVERSITY (HD) elective (3)	Social Science or Humanities; ECON 133, PHIL 105, PSYCH 240 do not transfer
> Review Human Diversity (HD) electives in City Colleges of Chicago (CCC) Academic Catalog at <a href="http://www.ccc.edu/menu/pages/academic-catalog.aspx">www.ccc.edu/menu/pages/academic-catalog.aspx</a>	> Review CCC-IIT Transfer Credits list at <a href="https://web.iit.edu/ugaa/ccc-industrial-technology-and-management">https://web.iit.edu/ugaa/ccc-industrial-technology-and-management</a>
432IBEW 714 Technical Mathematics I (3)	Math
<b>ECT Major/Technical Coursework: 13 courses (50.5 credits)</b>	
432IBEW 702 Electrical Circuitry (4.5)	Natural Science/Engineering (Physics)
432IBEW 703 Conduit Bending I (3.5)	Technical coursework
432IBEW 704 Construction Technology (4.5)	Technical coursework
432IBEW 705 Print Reading I (3.5)	Technical coursework
432IBEW 706 Conduit Bending II (3.5)	Technical coursework
432IBEW 708 Motor Control Systems (3.5)	Technical coursework
432IBEW 709 Print Reading II (3)	Technical coursework
432IBEW 710 Programmable Control (4.5)	Computer Science
432IBEW 712 HVAC Systems (4.5)	Technical coursework
432IBEW 715 Technical Mathematics II (3)	Math
432IBEW 724 Electrical Power Systems (4.5)	Natural Science/Engineering (Physics)
432IBEW 725 Low Voltage Systems (3.5)	Technical coursework
432IBEW 727 Photovoltaic Systems (4.5)	Technical coursework
<b>TOTAL CREDITS REQUIRED FOR CCC AAS IN ECT: 65</b>	
<b>Additional course required for transfer to IIT:</b>	
- NATURAL SCIENCE/ENGINEERING (3 credits): One course from IIT-CCC Transfer Credits list, Section F. CAD or Engineering Graphics recommended. BIOL or CHEM accepted.	
<i>The course above is 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 CCC's AAS in ECT should consult with INTM at IIT <u>before</u> taking the additional course.</i>	

INTM Admission Requirements: 60 credits	Satisfied by CCC AAS Coursework
<b>Technical Coursework: 31 credits</b>	IBEW Major/Technical courses
<b>Mathematics: 5-6 credits</b>	432IBEW 714 and 715
<b>Natural Science/Engineering: 10-11 credits</b>	432IBEW 702 , 724 + 1 course (not Physics /Physical Science)
<b>Computer Science: 3 credits</b>	432IBEW 710
<b>Humanities/Social Sciences: 9 credits</b>	See above; HIST (HUM) and PSYC 206 (SOC SCI) recommended

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)	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)	

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**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 319 Electronics in Industry

INTM 418 Industrial Risk Management

INTM 420 Applied Strategies for the Competitive Enterprise

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

**Manufacturing Technology (MT)**

INTM 406 Quality Control

INTM 433 Chemical Manufacturing Processes in Industry

INTM 434 Manufacturing 4.0

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 Information Systems

**Facilities Management (FM)**

INTM 314 Maintenance Technology and Management

INTM 411 Functional Facilities Management

INTM 413 Contract Administration for Construction Projects

INTM 415 Advanced Project Management

INTM 416 Integrated Facilities Management

INTM 423 Sustainable Facilities Management

**Supply Chain Management (SCM)**

INTM 409 Inventory Control

INTM 427 E-Commerce in Marketing &amp; Supply Chain Networks

INTM 430 Transportation

INTM 441 Supply Chain 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\*: 128-134 (CCC: 65>AAS + 3>Gen Ed + 60-66>IIT)***\*Total credits required is based on amount/makeup of transfer credit from CCC and other institutions; all courses must be graded "C" or better to transfer.***FOR MORE INFORMATION...****EJATT/IBEW-NECA TECHNICAL INSTITUTE****Mr. Gene Kent, Director**

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[gkent@ejatt.com](mailto:gkent@ejatt.com)ECT Program Description: <http://www.ccc.edu/programs/Pages/Electrical-Construction-Technology-Associate-in-Applied-Science.aspx>CCC Application Procedures: <http://www.ccc.edu/Pages/FutureStudents.aspx>EJATT IN-TECH Apprenticeship Training: <http://www.ejatt.com/>**ILLINOIS INSTITUTE OF TECHNOLOGY****Pamela Houser, Director of Operations****Industrial Technology and Management**

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