

Joliet Junior College to NIU course requirements for an AAS in Industrial Maintenance Technology plus courses required for the NIU Industrial Technology BS Degree

JJC Courses to complete the AAS in Industrial Maintenance Technology

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| ___ ENG 101 – Rhetoric I (NIU Engl 103) | ___ IMT 112 – Industrial Equipment II |
| ___ ENG 102 (NIU Engl 104) | ___ IMT 121 – Industrial Fluid Power |
| ___ MATH 135 – Plane Trigonometry | ___ IMT 122 – Industrial Piping Systems |
| ___ MATH 141 (NIU Math 155 - Trigonometry) | ___ IMT 123 – CMMS Strategies |
| ___ Social Science Elect (per NIU requirements) | ___ IMT 201 – Mechanical Sys. Troubleshooting |
| ___ MFG 115 – Blueprint Reading for Mfg/Weld. | ___ IMT 211 – Industrial Maintenance Internship |
| ___ EEAS 101 – Basic Wiring & Circuit Design (NIU Tech 175/175A) | ___ MFG 101 – Precision Machine Tool Tech. I |
| ___ EEAS 111 – Industrial Controls I | ___ RAH 120 – Motor Controls |
| ___ EEAS 113 – Industrial Controls II | ___ RAH 122 – Intro. to Air Conditioning I |
| ___ IMT 101 – Industrial Maintenance Fund. | ___ WELD 114 – Arc Welding I (Beginning) |
| ___ IMT 111 – Industrial Equipment I | ___ WELD 121 – Oxygen Acetylene Weld. I |
| | ___ Tech. Elective CAD 101 (NIU Tech 211) |

JJC Courses needed in completion of NIU IT degree

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| ___ SPCH 101 (NIU Coms 100) | ___ PHYS 100 (NIU Phys 150A) |
| ___ Humanities Elective (per NIU requirements) | ___ CHEM 100 (NIU Chem 110 & 111) |
| ___ Humanities Elective (per NIU requirements) | ___ MATH 128 (NIU Stat 208) |
| ___ Humanities Elective (per NIU requirements) | ___ ENG 130 (NIU Tech Writing) |
| ___ Social Science Elect (per NIU requirements) | ___ ACCY 101 (NIU Accy 206) |
| ___ Interdisciplinary Elect (per NIU requirements) | |

NIU Course work – Taken at NIU – DeKalb, Hoffman Estates, Naperville, or Rockford

Required NIU courses

- ___ Tech 265 – Basic Manufacturing Processes
- ___ Tech 302 – Graphic Presentation and Communications
- ___ Tech 395 – Industrial Data Processing
- ___ Tech 404 – Supervision in Industry
- ___ Tech 429 - Plant location, Layout and Materials Handling
- ___ Tech 434 – Human Factors in Industrial Accident Prevention
- ___ Tech 391 – Industrial Quality Control
- ___ Tech 496 - Industrial Project Management

Technology Electives - Choose 4

- ___ Tech 402 - Industrial Training and Evaluation
- ___ Tech 442 - Work Simplification
- ___ Tech 443 - Engineering Economy
- ___ Tech 444 - Production Control systems
- ___ Tech 484 - Energy Management
- ___ Tech 492 – Manufacturing Distribution Applications

___ Technology Department elective – must be upper level 300/400 (consult NIU Technology Dept. Advisor)

NIU Requirements for graduation – See www.ceet.niu.edu/tech for more information

- A minimum of 120 hours for graduation
- A minimum of 30 hours in NIU course work
- A minimum of 40 Hours in NIU 300/400 level courses
- Completion of the NIU General Education Core