

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

### Harper Courses to complete the AAS in Maintenance Technology

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| ___ ENG 101 – Composition (NIU Engl 103)           | ___ Social Science Elect (per NIU requirements)     |
| ___ SPE 101 (NIU Coms 100)                         | ___ MNT 115 – Basic Carpentry                       |
| ___ Humanities Elective (per NIU requirements)     | ___ MNT 125 – Basic Plumbing                        |
| ___ MTH 060 – Foundations of Mathematics I         | ___ MNT 210 - Advanced Welding                      |
| ___ Social Science Elect (per NIU requirements)    | ___ MNT 215 – Commercial Carpentry                  |
| ___ CIS 100 – Computer Fundamentals                | ___ MNT 225 – Commercial Plumbing                   |
| ___ ELT 142 – Electrical Wiring                    | ___ MNT 235 – Maintenance Troubleshooting           |
| ___ FIS 122 - Intro. to Fire Prevention Principles | ___ MNT 255 – Belts/Bearings & Mech. Drives         |
| ___ MGT 160 – Principles of Supervision            | ___ RAC 101 – Refrigeration Fundamentals            |
| ___ MNT 110 – Basic Welding                        | ___ Select 10 credit hours from the course listings |
| ___ MNT 111 – Prints & Schematics                  | ___ in the catalog.                                 |

### Harper Courses needed in completion of NIU IT degree

*(students must meet appropriate Harper College prerequisites for each course)*

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| ___ ENG 102 (NIU Engl 104)                         | ___ ENG 103 (NIU Tech Writing)            |
| ___ Humanities Elect (per NIU requirements)        | ___ ACC 101 (NIU Accy 206)                |
| ___ Humanities Elect (per NIU requirements)        | ___ MTH 140 (NIU Math 155 - Trigonometry) |
| ___ Interdisciplinary Elect (per NIU requirements) | ___ ELT 110 & ELT 111 (NIU Tech 175/175A) |
| ___ CHM 110 (NIU Chem 110 & 111)                   | ___ EGR 120 (NIU Tech 211)                |
| ___ MTH 165 (NIU Stat 208)                         | ___ PHY 121 (NIU Phys 150A)               |

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## 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)
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NIU Requirements for graduation – See [www.ceet.niu.edu/tech](http://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