

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

### Harper Courses to complete the AAS in Electronics Engineering Technology

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| ___ ENG 101 – Composition (NIU Engl 103)          | ___ MTH 140 - Precalculus (NIU Math 155)                              |
| ___ ELT 101 – DC Network Analysis                 | ___ ELT 103 – RF Network Analysis                                     |
| ___ ELT 110 Intro Electronics (NIU Tech 175/175A) | ___ ELT 203 – Digital Electronics                                     |
| ___ Humanities Elective (per NIU requirements)    | ___ Social Science Elect (per NIU requirements)                       |
| ___ MTH 103 – College Algebra                     | ___ PHY 121 – Intro. Physics (NIU Phys 150A)                          |
| ___ SPE 101 (NIU Coms 100)                        | ___ ELT 204 – Analog Electronics                                      |
| ___ CIS/CSC elective                              | ___ ELT 207 – Communication Systems                                   |
| ___ ELT 102 – AC Network Analysis                 | ___ ELT 218 - Microprocessors & Microcomputers                        |
| ___ ELT 111 – Semiconductor Devices & Circuits    | ___ 5-6 hr combination of ELT 125, ELT 130, ELT 135, ELT 140, ELT 215 |

### 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)                         | ___ CHM 110 (NIU Chem 110 & 111) |
| ___ Humanities Elect (per NIU requirements)        | ___ MTH 165 (NIU Stat 208)       |
| ___ Humanities Elect (per NIU requirements)        | ___ ENG 103 (NIU Tech Writing)   |
| ___ Social Science Elect (per NIU requirements)    | ___ ACC 101 (NIU Accy 206)       |
| ___ Interdisciplinary Elect (per NIU requirements) | ___ EGR 120 (NIU Tech 211)       |

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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

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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