

College of DuPage to NIU course requirements for an AAS in Electro-Mechanical Technology plus courses required for the NIU Industrial Technology BS Degree

COD Courses to complete the AAS in Electro-Mechanical Technology

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| ___ Elect 1100 - Electricity & Electronics Fund. (NIU Tech 175/175A) | ___ Manuf 1190 – Intro to PLCs |
| ___ Elect 1120 – Electronic Documentation | ___ Program Electives (9 credits) - see catalog for complete list, suggested courses |
| ___ Elmec 1101 – Survey of Automation | ___ Cadd 1111 – AutoCad (NIU Tech 211) |
| ___ Elmec 1110 – Motor Fundamentals | ___ Manuf 2251 – Computer Numerical Control |
| ___ Elmec 1130 – Industrial Electricity | ___ Chemi 1105 or 1211 - (NIU Chem 110/111) |
| ___ Elmec 1400 – Maintenance Mgmt. Systems | ___ Math 1432 - (NIU Math 155 - Trigonometry) |
| ___ Elmec 1420 – Drive Components | ___ Social Science Elect (per NIU requirements) |
| ___ Elmec 2410 – Programmable Controller II | ___ Humanities Elective (per NIU requirements) |
| ___ Elmec 2510 – Process & Automation Controls | ___ Engli 1101 – Eng. Comp. I (NIU Engl 103) |
| ___ Manuf 1104 – Technical Mechanics | ___ Speec 1100 (NIU Coms 100) |
| ___ Manuf 1141 – Hydraulics and Pneumatics | ___ Global/Multicultural Studies or Contemporary Life Skills category (2 credits) |
| ___ Manuf 1171 – Intro. to Robotic Technology | |
| ___ Manuf 1180 – Quality Control (NIU Tech 391) | |

COD Courses needed in completion of NIU IT degree

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| ___ Engli 1102 - Eng. Comp II (NIU Engl 104) | ___ Math 1635 – Statistics (NIU Stat 208) |
| ___ Humanities Elective (per NIU requirements) | ___ Engli 1105 (NIU Tech Writing) |
| ___ Humanities Elective (per NIU requirements) | ___ NIU Phys 150A |
| ___ Social Science Elect (per NIU requirements) | ___ Accou 1140 – Finan. Acctg. (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 496 - Industrial Project Management

Technology Electives - Choose 3

- ___ 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

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