

College of DuPage to NIU course requirements for an AAS in Automated Manufacturing Systems plus courses required for the NIU Industrial Technology BS Degree

COD Courses to complete the AAS in Automated Manufacturing Systems

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| ___ Manuf 1101 – Industrial Design/CAD (NIU Tech 211) | ___ Manuf 2280 – Industrial Safety |
| ___ Manuf 1104 – Technical Mechanics | ___ Program electives (6 credits) see catalog for complete course list, suggested courses |
| ___ Manuf 1121 – Physical Metallurgy | ___ Manuf 2201 – Geometric Dimensioning |
| ___ Manuf 1180 – Quality Control (NIU Tech 391) | ___ Manuf 2202 – Solid Modeling & Design |
| ___ Elect 1100 – Electricity & Electronics Fund. (NIU Tech 175/175A) | ___ Math 1432 - (NIU Math 155 - Trigonometry) |
| ___ Manuf 1190 – Introduction to PLCs | ___ Chemi 1211 - (NIU Chem 110/111) |
| ___ Manuf 1141 – Hydraulics & Pneumatics | ___ Engli 1101 – Eng. Comp. I (NIU Engl 103) |
| ___ Manuf 1110 - Metrology | ___ Spec 1100 (NIU Coms 100) |
| ___ Manuf 1171 – Intro. to Robotic Technology | ___ Humanities Elective (per NIU requirements) |
| ___ Manuf 2202 – Solid Modeling & Design | ___ Social Science Elect (per NIU requirements) |
| ___ Manuf 2251 – Computer Numerical Control | ___ Global/Multicultural Studies or Contemporary Life Skills category (2 credits) |
| ___ Manuf 2253 – Computer-Aided Manufacturing | |
| ___ Manuf 1151 – Machine Shop I | |

COD Courses needed in completion of NIU IT degree

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| ___ Engli 1102 - Eng. Comp II (NIU Engl 104) | ___ Engli 1105 (NIU Tech Writing) |
| ___ Humanities Elective (per NIU requirements) | ___ Accou 1140 – Finan. Acctg. (NIU Accy 206) |
| ___ Humanities Elective (per NIU requirements) | ___ (NIU Phys 150A) |
| ___ Social Science Elect (per NIU requirements) | ___ Math 1635 – Statistics (NIU Stat 208) |
| ___ 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