

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

### COD Courses to complete the AAS in Manufacturing Engineering Technology

___ Manuf 1101 – Industrial Design/CAD (NIU Tech 211)	(NIU Tech 175/175A)
___ Manuf 1121 – Physical Metallurgy	___ Math 1431 – Precalculus I
___ Manuf 1141 – Hydraulics & Pneumatics	___ Math 1432 - (NIU Math 155 - Trigonometry)
___ Manuf 1151 – Machine Shop I	___ Math 1635 – Statistics (NIU Stat 208)
___ Manuf 1160 - Technical Static & Strength of Material	___ Physi 1201 (NIU Phys 150A)
___ Manuf 2202 – Solid Modeling & Design	___ Manuf 1180 – Quality Control
___ Manuf 2203 – Manufacturing Processes & Design	___ Engli 1101 – Eng. Comp. I (NIU Engl 103)
___ Manuf 2251 – Computer Numerical Control	___ Speec 1100 (NIU Coms 100)
___ Manuf 2253 - Computer-Aided Manufacturing	___ Humanities Elective (per NIU requirements)
___ Manuf 2281 – Cost Analysis	___ Social Science Elect (per NIU requirements)
___ Elect 1100 – Electricity & Electronics Fund.	___ Global/Multicultural Studies or Contemporary Life Skills category (2 credits)

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

___ Engli 1102 - Eng. Comp II (NIU Engl 104)	___ Interdisciplinary Elect (per NIU requirements)
___ Humanities Elective (per NIU requirements)	___ Chemi 1211 - (NIU Chem 110/111)
___ Humanities Elective (per NIU requirements)	___ Engli 1105 (NIU Tech Writing)
___ Social Science Elect (per NIU requirements)	___ Accou 1140 – Finan. Acctg. (NIU Accy 206)

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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 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

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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