

## College of Lake County to NIU course requirements for an AAS in CAD-Drafting Technology (Mechanical Option) plus courses required for the NIU Industrial Technology BS Degree

### CLC Courses to complete the AAS in CAD-Drafting Technology (Mechanical Option)

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| ___ CAD 110 - CAD/CAM Concepts (NIU Tech 211)                          | ___ ENG 121 – Engl Comp I (NIU Engl 103)                       |
| ___ DFT 111 – Drafting I   | ___ CAD 175 – AutoCAD 3D or CAD 171 – Introduction to Inventor |
| ___ MTH 115 – Applied Mathematics II                                   | ___ CAD 176 – Introduction to Pro-Engineer                     |
| ___ MTT 112 Machining Principles                                       | ___ Humanities Elective per NIU requirements                   |
| ___ CAD 117 - Introduction to AutoCAD                                  | ___ CAD 217 – AutoCAD II                                       |
| ___ MCD 111 - Manufac.Process. (NIU Tech 265)                          | ___ CAD 211 – Mechanical Detailing                             |
| ___ CAD 173 – Introduction to SolidWorks                               | ___ CAD 276 - ProEngineer II or Tech elective                  |
| ___ ECO 221 or PSC 122 or Social Science Elective per NIU requirements | ___ MCD 214 – Mechanical Design & Drafting                     |
| ___ CNC 218 – CAD/CAM Numerical Control                                | ___ CMM 121 – Fund of Speech (NIU Coms 100)                    |

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

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|--|---------------------------------------|
| ___ ENG 122 - English Comp II (NIU Engl 104)       | ___ PHY 120 (NIU Phys 150A)           |
| ___ MTH 123 - Trigonometry (NIU Math 155)          | ___ MTH 222 (NIU Stat 208)            |
| ___ Humanities Elect (per NIU requirements)        | ___ ENG 126 (NIU Tech Writing)        |
| ___ Humanities Elect (per NIU requirements)        | ___ ACC 121 (NIU Accy 206)            |
| ___ Interdisciplinary Elect (per NIU requirements) | ___ MCD 111 (NIU Tech 265)            |
| ___ CHM 121 (NIU Chem 110 & 111)                   | ___ ELT 170 & 172 (NIU Tech 175/175A) |

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### NIU Course work – Taken at NIU – DeKalb, Hoffman Estates, Naperville, or Rockford

#### Required NIU courses

- \_\_\_ 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