

## Oakton to NIU course requirements for the AAS in Mechanical Design/CAD to NIU Industrial Management & Technology B.S. Degree

### Oakton Courses to complete the AAS in Mechanical Design/CAD

___ EGL 101 – Comp I	Systems (NIU Tech 395)
___ EGL 102 – Comp II	___ ENG 120 – Engineering Graphics
___ MATH 140 – College Algebra	___ MEC 105 - Processes and Materials
___ Social Science Elective	___ MEC 220 - Elements of Machine Design
___ Humanities Elective	___ MEC 230 - Statics and Strengths of Materials
___ Contemporary Global Studies Elect	___ PHY 131 – College Physics I (Phys 150A)
___ CAD 116 - Basic AutoCAD (NIU Tech 211)	Elective courses (minimum of 16 credits) Chair
___ CAD 117 - Intermediate AutoCAD	approved courses, other CAD, FME, MEC, MFG &
___ CAD 118 – Advanced AutoCAD	MTA courses, excluding FME105/107/120 &
___ CIS 101-Intro to Computer Information	MTA102/103 (See Catalog)

### Oakton Courses needed in completion of NIU Industrial Management & Technology degree

___ ACC 153 – Principles of Accounting	___ CHM 101 (NIU CHEM 110 and 111)
___ MAT 149 – Pre Calculus (NIU Math 155)	___ MAT 131 (NIU Stat 208)
___ Humanities Elect (per NIU requirements)	___ EGL 111 (NIU Tech Writing)
___ Humanities Elect (per NIU requirements)	___ ELT 101 - Intro to Elec. (NIU Tech 175/175A)
___ Social Science Elect (per NIU requirements)	___ MEC 105 or 210 (NIU Tech 265)
___ Interdisciplinary Elect (per NIU requirements)	
___ SPE 103 (NIU COMS 100)	

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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 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

### 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