

Oakton to NIU course requirements for the AAS in Manufacturing Technology to NIU Industrial Management & Technology B.S. Degree

Oakton Courses to complete the AAS in Manufacturing Technology

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| ___ EGL 101 – Comp I | ___ MFG 140 - Intro. to Robotics & Vision Sys. |
| ___ EGL 102 – Comp II | ___ MFG 144 - Intro. to CNC |
| ___ MATH 140 – College Algebra | ___ MFG 165 - MASTERCAM Comp. Aid. Mfg |
| ___ Social Science Elective | ___ MFG 240 – Programmable Controllers (PLC) |
| ___ Humanities Elective | ___ PHY 131 – College Physics I (Phys 150A) |
| ___ Contemporary Global Studies Elect | One course from the following: |
| ___ CAD 116 - Basic AutoCAD (NIU Tech 211) | ___ MFG 145 - Advanced CNC Programming |
| ___ CIS 101-Intro to Computer Information Systems (NIU Tech 395) | ___ MFG 250 - Advanced PLC/Automation App. |
| ___ ELT 101 - Intro to Elec. (NIU Tech 175/175A) | Elective courses (minimum of 5 hrs) from CAD, FME, MEC, MFG, or MTA excluding FME105, 107, 120 & MTA102 (See Catalog) |
| ___ ENG 120 – Engineering Graphics | |
| ___ MFG 135 – Hydraul., Pneumatics & Controls | |

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

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

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

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