

Joliet Junior College to NIU course requirements for an AAS in Precision Machine Technology plus courses required for the NIU Industrial Technology BS Degree

JJC Courses to complete the AAS in Precision Machine Technology

___ ENG 101 – Rhetoric I (NIU Engl 103)	___ MFG 120 – Physical Metallurgy
___ ENG 102 (NIU Engl 104)	___ MFG 101 – Precision Machine Tool Tech. I
___ MATH 135 – Plane Trigonometry	___ MFG 102 – Precision Machine Tool Tech. II
___ CIS 126 – Microsoft Office	___ MFG 103 – Precision Machine Tool Tech III
___ Social Science Elect (per NIU requirements)	___ MFG 104 – Manufacturing Processes
___ MFG 115 – Blueprint Reading for Mfg/Weld.	___ MFG 107 – Dimensional Metrology
___ MFG 200 – Adv. Blueprint Reading & Geometric Dimensioning & Tolerancing	___ MFG 109 – Metric Measurement
___ CAD 101 – CAD I (NIU Tech 211)	___ MFG 111 – Numerical Control
___ CAD 102 – Computer Aided Drafting II	___ MFG 112 – Adv. Numerical Control
___ CAD 250 – PRO-E Modeling	___ WELD 114 – Arc Welding I (Beginning)
___ MFG 180 – PRO-E Mfg., Fund. of Milling or	___ WELD 121 – Oxygen Acetylene Welding I
___ MFG 290 – PRO-E Mfg., Fund. of Turning	

JJC Courses needed in completion of NIU IT degree

___ SPCH 101 (NIU Coms 100)	___ MATH 141 (NIU Math 155 - Trigonometry)
___ Humanities Elective (per NIU requirements)	___ PHYS 100 (NIU Phys 150A)
___ Humanities Elective (per NIU requirements)	___ CHEM 100 (NIU Chem 110 & 111)
___ Humanities Elective (per NIU requirements)	___ MATH 128 (NIU Stat 208)
___ Social Science Elect (per NIU requirements)	___ ENG 130 (NIU Tech Writing)
___ Interdisciplinary Elect (per NIU requirements)	___ ACCY 101 (NIU Accy 206)

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

Required NIU courses

- ___ Tech 175 & 175A – Electricity and Electronics Fundamentals and Lab
- ___ 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 2

- ___ 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