

Joliet Junior College to NIU course requirements for an AAS in Process Control and Instrumentation Technology plus courses required for the NIU Industrial Technology BS Degree

JJC Courses to complete the AAS in Process Control and Instrumentation Technology

___ ENG 101 – Rhetoric I (NIU Engl 103)	___ EEAS 221 – Industrial Circuits Basic PLCs
___ MATH 107 – Technical Mathematics	___ EEAS 223 – Industrial Circuits – Adv. PLCs or EET 214 – Micro Computer Electronics
___ PHYS 100 (NIU Phys 150A)	___ IMT 121 – Industrial Fluid Power
___ Social Science Elect (per NIU requirements)	___ PCIT 111 – Pneumatic Measurement & Contr.
___ Humanities Elective (per NIU requirements)	___ PCIT 113 – Electronic Measurement & Contr.
___ EET 102 – Electronic Soldering	___ PCIT 221 – Control Loop Tuning & Troubleshooting
___ EET 113 - Elec. Circuits (NIU Tech 175/175A)	___ PCIT 241 – Industrial Data Communications: Serial Standards
___ EET 114 – Digital Electronics	
___ EEAS 111 – Industrial Controls I	
___ EEAS 113 – Industrial Controls II	
___ EEAS 215 - Process Control & Instrument.	

JJC Courses needed in completion of NIU IT degree

___ ENG 102 (NIU Engl 104)	___ MATH 141 (NIU Math 155 - Trigonometry)
___ SPCH 101 (NIU Coms 100)	___ CHEM 100 (NIU Chem 110 & 111)
___ Humanities Elective (per NIU requirements)	___ MATH 128 (NIU Stat 208)
___ Humanities Elective (per NIU requirements)	___ ENG 130 (NIU Tech Writing)
___ Social Science Elect (per NIU requirements)	___ ACCY 101 (NIU Accy 206)
___ Interdisciplinary Elect (per NIU requirements)	___ EGR 102 (NIU Tech 211)

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

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