



AAS Process Control and Instrumentation Technology to BS Industrial Mgmt & Applied Engineering

Courses taken at JJC

Year One, First Semester

ENG 101 Rhetoric
 MATH 138*** Pre-Calculus 1***
 EEAS 111 Industrial Control 1
 EET 113 Electrical Circuits

Year One, Second Semester

PCIT 101 Introduction to Process Technology
 EEAS 113 Industrial Controls II
 EET 114 Digital Electronics
 IMT 121 Industrial Fluid Power

Year Two, Third Semester

PCIT 111 Pneumatic Measurement and Control
 PCIT 113 Electronic Measurement and Control Lecture
 EEAS 221 Industrial Circuits Basic Programmable Logic
 PHYS 103 Technical Physics
 Elective Social/Behavioral Science**

Year Two, Fourth Semester

PCIT 221 Control Loop Tuning and Troubleshooting
 PCIT 241 Industrial Data Communications: Serial Standards
 EET 214 or Microcomputer Electronics or Industrial Circuits - Advanced
 EEAS 223 Programmable Controllers
 PCIT 231 Analyzing
 Technical
 Elective IMT, EET, EEAS, or PCIT elective**

Total JJC Credits: 64*

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Courses taken at SIU

Elective Social Science**
 Elective Humanities**
 Elective Life Science**
 Elective Fine Arts**
 Elective Multicultural**
 PHYS 203/253B College Physics/Lab
 IMAE 110 Geom Dimensioning & Tolerancing
 IMAE 208 Fundamentals of Mfg Processes
 IMAE 305 Industrial Safety
 IMAE 307 or Applied Calculus for Technology or
 MATH 140 Short Course in Calculus
 IMAE 340 or Introduction to Supervision or
 PSYC 323 Organizational Psychology
 CMST 101 Intro to Oral Communication
 IMAE 376 Supply Chain Operations & Logistics
 IMAE 390 Cost Estimating
 IMAE 392 Facilities Planning & Workplace Design
 IMAE 442 Fundamentals of Leadership
 IMAE 445 Computer Integrated Manufacturing
 IMAE 450 Project Management
 IMAE 465 Lean Manufacturing
 IMAE 470A Six Sigma Green Belt I
 IMAE 470B Six Sigma Green Belt II
 IMAE 476 Supply Chain Design & Strategy
 IMAE Elective 300/400 level IMAE course**

Total SIU Credits: 70*

Total Degree Credits: 134*

Hour Requirements: Each student must complete at least 120 semester hours of credit. Each student must have at least 42 hours in courses that number 300 or above from a four-year institution. Residence Requirements: Each student must complete the residence requirement by taking the last year, which is defined as 30 uninterrupted semester hours, or a total of 90 semester hours at SIU Carbondale. Grade Point Average Requirements: Each student must have a C average for all work taken at SIU Carbondale. Some academic programs may require a higher graduating major GPA.



*This transfer guide is a sample curriculum. Additional courses may be required based on placement test scores. Please work with your faculty advisor or success coach prior to course registration.

**Courses are to be chosen in consultation with an academic advisor.

***For students seeking only an AAS degree, only Algebra, MATH 119 is required. Students desiring to transfer should select a pre-calculus math class sequence. See program advisor for details.

About SIU's Program:

The Industrial Management and Applied Engineering major has as its objective the training of qualified personnel who can develop and direct the production and distribution of products and services. The major is designed to prepare management-oriented technical professionals in the economic-enterprise system. The Industrial Management and Applied Engineering curriculum is flexible enough to provide the means whereby graduates of two-year occupational programs may obtain a Bachelor of Science degree. A graduate of a two-year industrially-oriented occupational program, such as aviation, construction, drafting, data processing, electronics, machine tool, mechanical, and mining may have an appropriate preparation to pursue a Bachelor of Science degree with a major in Industrial Management

About JJC's Program:

The PCIT program provides training for working in a variety of industries and also offers theoretical and hands-on learning in setting up and maintaining automated control systems. Students are introduced to temperature and pressure controls, electrical systems, automation flow devices and micro-processing computers. Students learn to read, analyze and produce electronic drafting documents. Students are introduced to temperature and pressure controls, electrical systems, automation flow devices and micro-processing computers. Students learn to read, analyze and produce electronic drafting documents. Students are introduced to temperature and pressure controls, electrical systems, automation flow devices and micro-processing computers. Students learn to read, analyze and produce electronic drafting documents.

Questions:

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