



AAS Computer Aided Design and Drafting to BS Industrial Management & Applied Engineering

Courses taken at JJC

Year One, First Semester

CIS 126 Microsoft Office
 EGR 101 Engineering Graphical Communications
 CADD 101 2D Computer Aided Design and Drafting I
 MATH 119 or Mathematics for Technical Students or
 MATH 139 Pre-Calculus: Trigonometry
 ENG 101 or Rhetoric or
 ENG130 Technical Writing and Communication

Year One, Second Semester

CADD 110 2D Computer Aided Design and Drafting I
 ENG 102 or ENG Rhetoric or
 130 Technical Writing and Communication
 EGR 102 Engineering Graphics
 PHYS 100 Basic Physics
 MFG 101 Precision Machine Tool Technology

Year Two, Third Semester

CADD 250 CREO Parametric 3D Solid Modeling
 AEC 207 Structural Planning and Analysis
 MFG 115 or Blueprint Reading for Manufacturing and Welding
 MFG 200
 CADD 120 3D Computer Aided Design & Drafting I
 Social Science Select one course from Group II, Social & Behavioral Sciences**

Year Two, Fourth Semester

CADD 270 Solidworks - Parametric 3D Solid Modeling
 Core Program Any CADD course elective** (6 credit hours)
 Electives
 EEAS 101 Basic Writing and Circuit Design
 DEPT. Elective Choose from AEC, CADD, CIS, MFG courses or as approved by program coordinator**

Total JJC Credits: 67*

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Courses taken at SIU

CMST 101 Intro to Oral Communication**
 GEN ED Social Science**
 GEN ED Humanities**
 GEN ED Life Science Grp II**
 GEN ED Fine Arts**
 GEN ED Multicultural**
 IMAE 208 Fundamentals of Manufacturing Processes
 PHYS 203/253B College Physics/Lab
 IMAE 305 Industrial Safety
 IMAE 307 Applied Calculus for Technology
 IMAE 340 or Introduction to Supervision or
 PSYC 323* Organizational Psychology
 IMAE 376 Supply Chain Operations & Logistics
 IMAE 390 Cost Estimating
 IMAE 392 Facilities Planning & Workplace Design
 IMAE 442 Fundamentals of Leadership
 IMAE 445 Computer Aided 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 Electives 300/400 level **

Total SIU Credits: 67*

Total Degree Credits: 134*

NOTE: Students will be required to complete a minimum of 42 senior institution hours at the 300-400 course level, with the last 30 such senior institution hours being at SIU Carbondale for residency purposes. All students will be required to complete at least 120 hours with an overall GPA of 2.0 on a 4.0 scale to received a Bachelor of Science degree in Industrial Management and Applied Engineering (IMAE). Coursework may include University Core Curriculum as well as Industrial Management and Applied Engineering major courses.





*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.

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 and Applied Engineering.

About JJC's Program:

JJC's CADD program provides courses in the mechanical, architectural and related design and engineering disciplines. The core curriculum focuses on 2D and 3D design skills using the Auto CAD software application from beginning to advanced level applications. The program also includes 3D Solid Modeling coursework using Creo Parametric, SolidWorks, Autodesk Inventor Pro and Autodesk Architecture. Electives include 3D Studio Max Design work for animation tools and Bentley's Microstation V8i design tools. Students will have the computer aided design and drafting skill set needed to work in an engineering office environment. The advantage of having JJC's AAS degree in CADD is exposure and experience gained while working with the large variety of industry software applications. The skills learned range from basic two-dimensional design drafting to advanced three dimensional parameter part modeling. The workstations and plotting hardware used in JJC's CADD program are the most common found in today's engineering offices.

Questions:

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