

2+2 with SEMO

Students that have completed the two-year computer-aided design and drafting degree may wish to further their education by completing a B.S. degree in industrial technology through Southeast Missouri State University. Major employers in manufacturing, industrial, and government settings are seeking four-year industrial technology graduates.

Third Year			Fall	Spring
IM	102	Technical Communication	3	-
		Social Systems	3	-
IM	211	Industrial Safety Supervision	3	-
IM	311	Statistical Process Control	4	-
		Artistic Expression	3	-
EN	140	Rhetoric and Critical Thinking	2	-
MG	301	Management & Organizational Behavior		3
MA	139	Applied Calculus	-	3
CH	181	Basic Principles of Chemistry	-	5
		Major Elective	-	3
EC	215	Principles of Microeconomics	-	3
WP	003	75-Hour Writing Exam	-	0
PS	220	Missouri Government	-	1
			18	18

Fourth Year			Fall	Spring
UI	319	Science, Technology and Society	3	-
		Major Electives	6	-
		Literary Expression	3	-
		Living Systems	3	-
		Development of Major Civilization	3	-
UI	410	Manufacturing Research	-	3
UI	3XX	University Studies	-	3
		Major Electives	-	9
			15	15



We Support Voluntary Technician Certification through the American Design Drafting Association.

For more information, call one of the following toll-free numbers:

Carbondale 549-7335
Carterville 985-3741
Crab Orchard 1-800-851-4720
DeSoto 549-7335, 932-6639
Du Quoin 542-8612, 542-9210
Elkville 542-8612
Gorham 1-800-851-4720
Herrin 985-3741
Johnston City 985-3741
Marion 985-3741
Murphysboro 549-7335
Trico Area 1-800-851-4720
West Frankfort 937-3438, 932-6639
TTY (Hearing Impaired) 985-2752

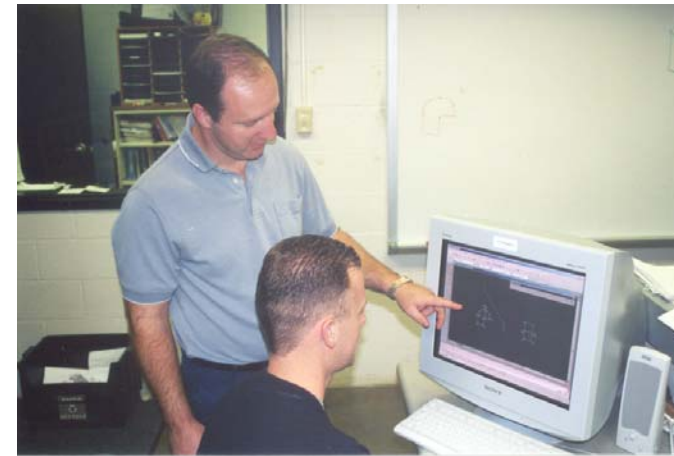
John A. Logan College website
<http://www.jalc.edu>

John A. Logan College
Carterville, Illinois 62918



John A. Logan College does not discriminate on the basis of race, religion, color, national origin, disability, age, or gender.

Computer-Aided Design and Drafting



Program Certification through



John A. Logan College
Carterville, Illinois

Career Opportunities

Although beginning salaries are comparable to other technical careers, experienced CAD technicians can earn \$22,000 to \$40,000 a year with many positions offering an opportunity for quick advancement. These positions can be found in our region and throughout the nation with employers ranging from manufacturing companies, industrial companies, engineering firms, various government agencies, architectural firms, and the mining industry.

Upon the successful completion of the Computer-Aided Design and Drafting program, a student may find employment as a CAD operator, CAD technician draftsman, mechanical drafter, architectural drafter, industrial drafter, detailer, or many other related areas.

A job placement service is provided for all John A. Logan College graduates in an effort to assist students in finding gainful employment. Each year, new graduates prepare or update resumes and submit them to the College Placement Office for review by potential employers.

Those wishing to further their education by completing a B.S. degree may do so through several available universities.

About ADDA

To help technical educators recruit, mentor, and train tomorrow's CAD technicians, ADDA (American Design and Drafting Association) offers certification for CAD technical training programs. The purpose of the certification is to give recognition to schools whose curriculum in design/drafting meets the standards established and approved by ADDA. Also, it provides a means of encouraging schools to develop and upgrade equipment and curriculum in order to better prepare students to meet job requirements.

Rapid Prototyping

Students enrolled in the Computer-Aided Design and Drafting Program can greatly enhance their skills by using state-of-the-art rapid prototyping technology. In essence, students can gain hands-on experience by building parts and assemblies.

Facilities

The Computer-Aided Design and Drafting facilities use state-of-the-art computers, software, measuring tools, and libraries. Students are encouraged to use problem solving skills to solve design-related problems.

Curriculum — 2 Year Degree

First Year

Fall Semester			Credits
IND	201	Metallurgy	2
DRT	181	Technical Drafting I	4
ENG	101	English Composition I*	3
MAT	106	Technical Mathematics	4
IND	121	Manufacturing Processes I	2
DRT	185	Computer Graphics I	2
			17

Spring Semester

Spring Semester			Credits
DRT	182	Technical Drafting II	4
DRT	190	Computer Graphics II	2
SPE	115	Speech	3
DRT	184	Architecture I	2
DRT	187	Product Design	3
CIS	207	Computer Applications for Business	3
			17

Second Year

Fall Semester			Credits
PSC	131	American Government**	3
DRT	183	Detail and Assembly	2
DRT	201	Strength of Materials	3
DRT	281	Computer Graphics III	3
DRT	283	Advanced Technical Drawing	3
DRT	294	Architecture II	2
			16

Spring Semester

Spring Semester			Credits
MFT	101	Production Technology	3
PHY	121	Technical Physics	3
IND	122	CAD-CAM Operations	2
DRT	186	Geometric Dimensioning and Tolerancing	2
DRT	282	Tool Design	3
DRT	286	Computer Graphics IV	3
PSY	132	General Psychology***	3
			19

Optional

Optional			Credits
ATI	200	Applied Technologies Internship	1-4

*Requires grade of "C" or better and may be substituted with ENG 113 Professional Technical Writing

**May be substituted with HIS 201 or HIS 202 United States History I or II

***May be substituted with PSY 128 Human Relations

2+2 with SIUC (Capstone)

Students that have completed the two-year computer-aided design and drafting degree may wish to further their education by completing a B.S. degree in industrial technology through Southern Illinois University Carbondale. Major employers in manufacturing, industrial, and government settings are seeking four-year industrial technology graduates.

Third Year

			Fall	Spring
IT	375	Production and Inventory Control	3	-
IT	383	Motion and Time Study	3	-
MAT	125	Data Interpretation	4	-
		Fine Arts Elective	3	-
		Senior Institution Credits	2	-
IT	305	Industrial Safety	-	3
IT	390	Cost Estimating	-	3
IT	392	Facilities Planning	-	3
IT	307	Calculus Applications	-	3
		Humanities Elective	-	3
			15	15

Fourth Year

			Fall	Spring
IT	475	Quality Control	3	-
PHYS	230A	Mechanics and Heat	3	-
PHYS	253A	Lab	1	-
		Biological Science Elective	3	-
		Social Science Elective	3	-
		Senior Institution Credits	2	-
IT	240	First Line Supervision	-	3
IT	440	Manufacturing Policy	-	3
IT	485	Quality Control II	-	3
		Technical Elective	-	3
		Multi-cultural Elective	-	3
			15	15