Computer Integrated Manufacturing Technology

(AAS.CIM) Associate in Applied Science Degree

This program is designed to give the student a broad background in the basics of mechanics, fluid power, CAD, electronics and computer applications in manufacturing. Graduates will be prepared for the manufacturing jobs of the future in positions such as CAD/CAM Operator/Designer, Manufacturing Engineering Technician, Quality Control Technician, Robotics Technician, CNC Operator/Programmer, CIM Technician or CIM Equipment Installer. Employment opportunities exist in many types of manufacturing industries, service industries and consulting firms. Students planning to continue their education at Eastern Illinois University or Southern Illinois University to earn a bachelor's degree in Industrial Technology or Applied Engineering should consult their advisor/counselor for course requirements and substitutions.

Program requirements may change over time. Specific degree/graduation requirements are determined by the students' degree audit.

Manufacturing

You might also like:

Workforce Ready

- Advanced Automation & Control Technology – page 21
- CNC Operator – page 41
- CNC Programmer – page 42
- Computer-Aided Design – page 48
- Computer-Aided Drafting – page 49
- Computer Integrated Manufacturing Technology – page 45
- Electronic Control Technology – page 64
- Electronic Systems Specialist – page 66
- Industrial Maintenance – page 79
- Instrumentation & Control Technology – page 80
- Mechanical-Electrical Technology – page 100
- Programmable Logic Controllers – page 118
- Renewable Energy – page 121
- Renewable Energy Management – page 123
- Sustainable Energy – page 125
- Welding Technology – page 129

FIRST YEAR

First Semester			Hours
☐	TEC 050	Technical Mathematics I (Module 1)	2
☐	TEC 052	Technical Mathematics II (Module 2) *	2
☐	CAD 056	CAD I	2
☐	EET 040	Basic Electronics (Module 1)	2.5
☐	ENG 098	Communications I *or*	
	ENG 120	Composition I	3
☐	EET 050	Electric Circuits (Module 2)	2.5
☐	TEC 103	Engineering Graphics	3
		SEMESTER TOTALS	**17**

Second Semester			
☐	CAD 057	CAD II *	3
☐	TEC 054	Technical Mathematics III (Module 3) *	2
☐		Social Science Elective	2
☐	MTT 050	Introduction to Machine Procedures	3
☐	CIM 060	Computer Numerical Control * †††	3
☐	WEL 057	Welding Fundamentals	2.5
		SEMESTER TOTALS	**15.5**

* There are prerequisites, course requisites or minimum placement test scores for this course
† Course only offered fall semester
†† Course only offered spring and summer semester
††† Course only offered spring semester

Call Counseling Services: 217-234-5232
Email: counsel@lakeland.cc.il.us

Faculty Contact: Leo Kitten
Email: lkitten@lakeland.cc.il.us
Phone: 217-234-5316

SECOND YEAR

First Semester			Hours
☐	EET 086	Programmable Logic Controllers [1]	2
☐	HED 178	Responding to Emergencies	2
☐	CIM 044	Industrial Robotics †	2
☐	CIM 092	Computer-Aided Manufacturing * †	3
☐	IND 044	Fluid Power	3
☐	TEC 070	Properties of Metal	2.5
☐	CAD 062	Introduction to Solidworks	2
		SEMESTER TOTALS	**16.5**

Second Semester			
☐	EET 087	Programmable Logic Controllers [2] *	2
☐	WEL 056	Metal Cutting and Fabrication	2
☐	MET 084	Technical Mechanisms *	3
☐	CIM 094	Computer Integrated Manufacturing * †††	3
☐		Social Science Elective	3
☐		Technical Elective	2.5
		SEMESTER TOTALS	**15.5**

SUGGESTED ELECTIVES

☐	CAD 058	CAD Drafting Systems * †	2
☐	CAD 059	Special Applications of CAD * †††	3
☐	CAD 075	Supervised Occupational Experience	3
☐	EET 052	Solid State Devices	4
☐	EET 056	Electronic Design and Fabrication	3
☐	EET 060	Computer Hardware	3
☐	EET 063	Industrial Computer Systems	3
☐	EET 072	Industrial Control	2
☐	IND 052	Electrical Installation Procedures	2.5
☐	MET 043	Motors and Generators	2.5
☐	WEL 047	Shielded Metal Arc Welding [1]	2
☐	WEL 056	Metal Cutting and Fabrication	2
☐	WEL 058	Gas Metal Arc Welding	2
☐	WEL 061	Gas Tungsten Arc Welding	3
☐	EET 075	Human Machine Interface	2
☐	CAD 060	3D Solid Modeling	3
☐	CAD 061	3D Parametric Design	3

TOTAL PROGRAM HOURS 64.5