Mechanical – Electrical Technology

(AAS.MET) Associate in Applied Science Degree

Manufacturing

You might also like:

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- 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
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- Electronic Systems Specialist – page 66
- Industrial Maintenance – page 79
- Instrumentation & Control Technology – page 80
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Mechanical Electrical Technology (MET) program is designed to give the student a wide background in mechanical and electrical skills. These skills and knowledge include welding, hydraulics, pneumatics, CAD, CNC, HVAC, AC/DC circuits, ladder logic, motors and PLCs. Technical electives are incorporated into this degree to allow the student to focus more concentration in an area of their interest (like Wind or Solar). Graduates will be prepared for many different kinds of technical jobs for today and the future. Some of these employment opportunities include: CAD operator/designer, CNC operator/programmer, HVAC technician, maintenance technician, industrial electrician and service technician. A graduate with a MET degree will be prepared for high paying technical jobs that are available locally and nationwide.

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

FIRST YEAR

First Semester			Hours
☐	ENG 098	Communication I *or*	
	ENG 050	Writing for Industry	3
☐	TEC 040	Blueprint Reading for Industry †	2.5
☐	IND 044	Fluid Power	3
☐	TEC 050	Technical Mathematics I (Module 1)	2
☐	TEC 052	Technical Mathematics II (Module 2) *	2
☐	EET 040	Basic Electronics (Module 1)	2.5
☐	EET 050	Electric Circuits (Module 2) *	2.5
		SEMESTER TOTALS	**17.5**

Second Semester			
☐	MET 080	Solid State Applications * †††	3
☐	TEC 054	Technical Mathematics III (Module 1) *	2
☐	MET 043	Motors and Generators (Module 1) * †††	2.5
☐	MTT 050	Introduction to Machine Procedures (Module 2)	3
☐	IND 052	Electrical Installation Procedures (Module 2) * †††	2.5
☐	CAD 056	CAD I	2
☐	HED 178	Responding to Emergencies	2
		SEMESTER TOTALS	**17**

SECOND YEAR

First Semester			Hours
☐	IND 043	Heating, Ventilation and Air Conditioning I *	4
☐	CIS 068	Computer Applications Special Topics †	2
☐	CAD 057	CAD II *	3
☐	EET 072	Industrial Controls I (Module 1) * †	2
☐	EET 086	Programmable Logic Controllers I (Module 2) * †	2
☐		Social Science Elective	2
☐		Technical Electives **	2
		SEMESTER TOTALS	**17**

Second Semester			
☐	IND 054	Troubleshooting and Preventative Maintenance * †††	3
☐	CIM 060	Computer Numerical Control Machining * †††	3
☐	MET 084	Technical Mechanisms * †††	3
☐	WEL 057	Welding Fundamentals	2.5
☐		Economics Elective	3
☐		Technical Electives **	3
		SEMESTER TOTALS	**17.5**

SUGGESTED ELECTIVES

☐	WND 040	Introduction to Wind	3
☐	EET 068	Photovoltaic Systems *	3
☐	IND 042	Pipefitting Procedures	1
☐	TEC 043	Industrial Safety	1
☐	EET 087	Prog Logic Controllers II *	2
☐	EET 075	HMI – Human Machine Interface *	2
☐	CAD 058	CAD Systems *	2
☐	CAD 059	Special Applications of CAD *	3
☐	EET 069	Residential Wiring I *	3
☐	CAD 062	Introduction to Solidworks * †††	2
☐	EET 071	Routing and Switching * †	3
		TOTAL PROGRAM HOURS	**69**

* There are prerequisites, course requisites or minimum placement test scores for this course
** Electives must be approved by Program Coordinator
† Course only offered fall semester
††† Course only offered spring semester

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

Faculty Contact: Dion Buzzard
Email: dbuzzard@lakeland.cc.il.us
Phone: 217-234-5325