

MECHANICAL-ELECTRICAL TECHNOLOGY

(AAS.MET) ASSOCIATE IN APPLIED SCIENCE DEGREE

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 (such as 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 a degree audit.

FIRST YEAR

First Semester		Hours
ENG-098	Communications I OR	
ENG-050	Writing for Industry	3.0
TEC-040	Blueprint Reading/Industry I +	2.5
IND-044	Fluid Power	3.0
TEC-050	Technical Math I (Module 1)	2.0
TEC-052	Technical Math II (Module 2) *	2.0
EET-040	Basic Electronics (Module 1)	2.5
EET-050	Electric Circuits I (Module 2) *	2.5
SEMESTER TOTALS		17.5

Second Semester

MET-080	Solid State Devices & Apps * +++	3.0
TEC-054	Technical Math III (Module 1) *	2.0
MET-043	Motors and Generators (Module 1) * +++	2.5
MTT-050	Intro to Machining Procedures (Module 2)	3.0
IND-052	Electrical Installation Proc (Module 2) * +++	2.5
CAD-056	CAD I	2.0
HED-178	Responding to Emergencies	2.0
SEMESTER TOTALS		17.0

SECOND YEAR

First Semester		Hours
IND-043	Refrigeration Fundamentals *	4.0
CIS-068	Computer Appl-Special Topics +	2.0
CAD-057	CAD II *	3.0
EET-072	Industrial Control I (Module 1) * +	2.0
EET-086	Prog Logic Controllers I (Module 2) * +	2.0
	Social Science Elective	2.0
	Technical Elective **	2.0
SEMESTER TOTALS		17.0

Second Semester

IND-054	Trouble Shooting & Prev Maint * +++	3.0
CIM-060	CNC Machining * +++	3.0
MET-084	Technical Mechanisms * +++	3.0
WEL-057	Welding Fundamentals	2.5

Economics Elective	3.0
Technical Elective **	3.0
SEMESTER TOTALS	17.5

SUGGESTED ELECTIVES

WND-040	Intro to Wind Technology	3.0
EET-068	Photovoltaic Systems *	3.0
IND-042	Pipefitting Procedures	1.0
TEC-043	Industrial Safety	1.0
EET-087	Prog Logic Controllers II *	2.0
EET-075	HMI-Human Machine Interface *	2.0
CAD-058	CAD Drafting Systems *	2.0
CAD-059	Special Applications of CAD *	3.0
EET-069	Residential Wiring I *	3.0
CAD-062	Introduction to Solidworks * +++	2.0
EET-071	Routing & Switch Fundamentals * +	3.0

TOTAL PROGRAM HOURS **69.00**

- * There are prerequisites, course requisites, or minimum placement test scores for this course.
- ** Electives must be approved by the Program Coordinator
- + Course only offered fall semester
- ++ Course only offered spring and summer semester
- +++ Course only offered spring semester
- ++++ Course offered in summer term only
- ^ SOS 050 Human Relations and PSY 271 Introduction to Psychology cannot be used as a social science elective
- ^^ Consult Academic Advisor for appropriate course
- ^^^ Course requires a 30-hour practicum experience in addition to classroom lecture hours
- ^^^^ ECE 120 and ECE 125 must be taken the same semester

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