

ACADEMIC MAP

Electrical Reliability and Maintenance, A.A.S.

Semester 1

COURSE	CR	COMMENTS
COLL 101 ORIENTATION TO COLLEGE	1	
IM 101 INDUSTRIAL MAINTENANCE 1	3	
IM 102 INDUSTRIAL MAINTENANCE 2	3	
IM 103 INDUSTRIAL MAINTENANCE 3	3	
MATH 125 OR MATH 126	3	
ENGL 107 OR ENGL 101	3	
TOTAL:	16	



The **Associate of Applied Science in Electrical Reliability and Maintenance** prepares graduates

for positions as technicians that install, service, repair, and maintain equipment in today's modern

industrial, commercial and/or manufacturing facilities. Courses include preventive maintenance, system design, and troubleshooting concepts that integrate practical application and knowledge of electrical, electronic, hydraulic, and mechanical systems.

Semester 2

COURSE	CR	COMMENTS
MTEC 102 INTRODUCTORY CRAFT SKILLS	2	
MTEC 103 INTRO TO MAINTENANCE TECH	3	
IM 203 INDUSTRIAL MAINTENANCE 6	3	
IM 202 INDUSTRIAL MAINTENANCE 5	3	
WELD 121 BASIC SHIELDED METAL ARC(SMAW)	3	
IM 201 INDUSTRIAL MAINTENANCE 4	3	
TOTAL:	17	



MILESTONE COURSE:

These courses are the keys to graduation and certification. Courses should be taken in the recommended semesters.



CAREER PLANNING:

Multi-Craft Technicians, Electrical and Instrumentation Technicians, Pipefitters, Millwrights, Industrial Maintenance Technicians make an average wage of \$15.74 - \$26.15 per hour.



CAPSTONE COURSE:

The capstone is a semester long project that must be taken in the graduation semester. A "C" or better must be earned.

Semester 3

COURSE	CR	COMMENTS
ELEC 103 ELECTRICAL & INSTRUMENTATION 2	3	
ELEC 104 ELECTRICAL & INSTRUMENTATION 3	3	
COMM 111 OR COMM 112	3	
ELEC 102 ELECTRICAL & INSTRUMENTATION 1	3	
PHIL 170 OR PHIL 231	3	
TOTAL:	15	




Students should average 15 credit hours per semester, or 30 per year, to graduate on time.

TOTAL DEGREE CREDITS:

62

Semester 4

COURSE	CR	COMMENTS
ELEC 202 ELECTRICAL & INSTRUMENTATION 4	3	
ELEC 203 ELECTRICAL & INSTRUMENTATION 5	3	
ELEC 204 ELECTRICAL & INSTRUMENTATION 6	3	
CS 101 INTRO TO PC APPLICATIONS	4	
MTEC 280 CAPSTONE COURSE	1	
TOTAL:	14	

2022-2023

Foundational Learning Courses (FLCs):

To ensure breadth and depth as students meet these broad education goals, the curriculum focuses on six academic “strands.”

Aesthetics, Creativity, and Appreciation	Human Communication and Interaction	People and Their Worlds	Quantitative Reasoning	Scientific Inquiry	Writing and Rhetoric
ART-101	COMM-105	ECON-201	MATH-120	ASTR-106 BIOL-101	ENGL-101
ART-111	COMM-111	ECON-202	MATH-125	BIOL-102	ENGL-102
ENGL-131	COMM-112	GEOG-102	MATH-126	BIOL-103	ENGL-107
ENGL-132	COMM-202	HIST-101	MATH-211	BIOL-104	
ENGL-221		HIST-102		BIOL-107	
ENGL-222		HIST-152		BIOL-108	
ENGL-241		HIST-153		BIOL-109	
ENGL-242		HIST-250		BIOL-115	
ENGL-257		PHIL-111		BIOL-117	
ENGL-261		PHIL-150		BIOL-171	
ENGL-262		PHIL-231		CHEM-111	
ENGL-285		POLS-101		CHEM-115	
MUSI-170		POLS-102		CHEM-116	
THEA-101		PSYC-101		GEOL-101	
		PSYC-241		GEOL-102	
		SOC-101		GEOL-103	
		SOC-107		GEOL-104	
		SOC-221		GEOL-105	
				PSCI-101	
				PSCI-111	
				PSCI-112	
				PHYS-101	
				PHYS-102	
				PHYS-111	