

# ACADEMIC MAP

Advanced Manufacturing Technology, A.A.S.



## Semester 1

COURSE	CR	COMMENTS
COLL 101 ORIENTATION TO COLLEGE	1	
ELEC 101 ELECTRICITY & ELECTRONICS FUND	3	
ELEC 102 ELECTRICAL & INSTRUMENTATION 1	3	
ELEC 104 ELECTRICAL & INSTRUMENTATION 3	3	
MATH 125 TECHNICAL MATHEMATICS	4	
ELEC 103 - (E&I 2)	3	
<b>TOTAL:</b>	<b>17</b>	



The **Associate of Applied Science in Advanced Manufacturing Technology** prepares graduates

for careers in the manufacturing sector. Advanced manufacturing technology graduates repair, troubleshoot and maintain a variety of manufacturing equipment including commercial electrical and mechanical systems. Hands-on courses give our graduates practical experience in automation, instrumentation and process control systems, as well as basic machining skills in order to facilitate working with modern equipment.

## Semester 2

COURSE	CR	COMMENTS
ENGL 107 TECHNICAL WRITING	3	
MTEC 102 INTRODUCTORY CRAFT SKILLS	2	NCCER Core
ELEC 202 ELECTRICAL & INSTRUMENTATION 4	3	EI NCCER Level 3
ELEC 203 ELECTRICAL & INSTRUMENTATION 5	3	
ELEC 204 ELECTRICAL & INSTRUMENTATION 6	3	EI NCCER Level 4
<b>TOTAL:</b>	<b>14</b>	



**MILESTONE COURSE:** These courses are the keys to graduation and certification. Courses should

be taken in the recommended semesters to stay on time for completion.



**CAREER PLANNING:** Multicraft

Technician, Electrical and Instrumentation Technician, Pipefitter, Millwright, Industrial Maintenance Technician. Average wage: \$15.74 - \$26.15/hour.

## Semester 3

COURSE	CR	COMMENTS
IM 101 INDUSTRIAL MAINTENANCE 1	3	
IM 102 INDUSTRIAL MAINTENANCE 2	3	IM NCCER LEVEL 2
IM 103 INDUSTRIAL MAINTENANCE 3	3	
SCIENTIFIC INQUIRY ELECTIVE	4	
AESTHETICS, CREATIVITY & APPRECIATION OR HUMAN COMMUNICATION & INTERACTION OR PEOPLE AND THEIR WORLDS	3	CHOOSE 1 OF THE 3 LISTED
<b>TOTAL:</b>	<b>16</b>	



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
AESTHETICS, CREATIVITY & APPRECIATION OR HUMAN COMMUNICATION & INTERACTION OR PEOPLE AND THEIR WORLDS	3	CHOOSE 1 OF THE 3 LISTED
IM 225 ROBOTICS	3	
IM 201 INDUSTRIAL MAINTENANCE 4	3	IM NCCER LEVEL 3
IDIT 202 ADVANCED INSTRUMENTATION 4	3	
IM 254 CNC MACHINING 1	3	
<b>TOTAL:</b>	<b>15</b>	

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.”

<b>Aesthetics, Creativity, and Appreciation</b>	<b>Human Communication and Interaction</b>	<b>People and Their Worlds</b>	<b>Quantitative Reasoning</b>	<b>Scientific Inquiry</b>	<b>Writing and Rhetoric</b>
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	