

ASSOCIATE OF APPLIED SCIENCE PROGRAMS

TECHNOLOGY - AUTOMATED SYSTEMS

The Automated Systems degree specialization develops knowledge and skills needed in automated Advanced manufacturing and Logistics environments where the integration of computers and electronic technologies control industrial systems and machines.

Mission:

The purpose of the Associate of Applied Science degree in Technology is to provide employment-related knowledge and skills necessary to succeed as a professional in a chosen field of study.

Student Learning Outcomes:

Students who complete an Associate of Applied Science Automation and Industrial Applied Technology are expected to:

- Know the subject matter appropriate to the emphasis of the degree. (WNC SLO 1,3,6,7)
- Communicate effectively and appropriately, in oral and written form. (WNC SLO 2)
- Locate, evaluate and properly utilize the tools and resources appropriate to a technology degree professional. (WNC SLO 1,6,7)
- Acquire skills and perform tasks necessary for employment or career enhancement. (WNC SLO 1,7)
- Develop an appreciation of the importance of social, ethical, legal and diversity issues. (WNC SLO 5,7)
- Develop an appreciation of the need and importance of lifelong learning. (WNC SLO 1)

Required Courses

Course	Title	Units
TOTAL REQUIREMENTS		60 Units
PROGRAM REQUIREMENTS		36 Units
AIT 101	Fundamentals Of Applied Industrial Technology	4
or MPT 111 & OSH 222	<i>Fundamentals of Manufacturing and Automation I (3) & General Industry Safety (1)</i>	
AIT 155	Applied Hands-on AIT Labs	3
or MPT 112	<i>Fundamentals of Manufacturing & Automation II</i>	
AIT 200	AIT Projects	3
or MPT 114	<i>Fundamentals of Manufacturing & Automation III</i>	
ET 131	DC for Electronics	4
or ELM 112 & ELM 121	<i>Electrical Theory DC (3) & Circuit Design (3)</i>	
ET 132	AC for Electronics	4
or ELM 110	<i>Basic Electricity</i>	
CHOOSE 16-18 UNITS FROM THE FOLLOWING PROGRAM ELECTIVES:		
Any AIT, CADD, DFT, ELM, ENGR, ENRG, ET, MPT, MT, or MTT course		units vary
GENERAL EDUCATION REQUIREMENTS		24 Units
English/Communications Requirement <i>Must include a writing course</i>		6
Human Relations Requirement		3
Humanities/Social Science Requirements		3
Science Requirement		3
Mathematics Requirement: Recommend MATH 126		3
U.S. and Nevada Constitution Requirement		3

Course	Title	Units
General Elective		3
Please see the Associate of Applied Science page for a list of all courses filling general education requirements.		

Suggested Course Sequence

First Semester	Units	Third Semester	Units
MPT 111	3	MPT 114	3
OSH 222	1	ELM 112	3
MPT 112	3	ELM 121	3
ELM 110	4	Human Relations	3
English	3	U.S./Nevada Constitution	3
Second Semester	Units	Fourth Semester	Units
Program Electives	7	General Elective	3
English	3	Program Electives	9
Humanities/Social Science	3	Science	3
Mathematics	3		