

ASSOCIATE OF APPLIED SCIENCE IN TECHNOLOGY

Evening Program Options Available

Students seeking an Associate of Applied Science in Technology degree generally move directly into the workplace upon graduation. This Associate degree is flexible and provides a wide range of classroom experiences in the field of automotive technology, electrical technology and computer repair. It is recommended that each student meet with an advisor to schedule classes which pertain to their chosen degree.

Requirements

General Education

Code	Title	Credits
Communications		
Ten credit hours		10.00
BUS-111	CONTEMPORARY BUSINESS & TECHNICAL COMM ¹	
COM-140 or COM-150	GEN COMMUNICATIONS: SPEECH PUBLIC SPEAKING	
ENG-121	ENGLISH COMPOSITION I ¹	
Computers		
Four credit hours required		4.00
CIS-101	INTRO TO COMPUTERS & SOFTWARE ¹	
Industrial Studies		
Three credit hours required		3.00
INDS-151	MANUFACTURING PROCESSES	
Mathematics		
Select three-four credit hours of the following:		3.00-4.00
MATH-104	INTERMEDIATE ALGEBRA ¹	
MATH-109	MATH FOR TECHNICIANS I	
MATH-119	MATH FOR TECHNICIANS II ¹	
MATH-151	COLLEGE ALGEBRA ¹	
MATH-161	CALCULUS I & ANALYTIC GEOMETRY ¹	
MATH-162	CALCULUS II & ANALYTIC GEOM ¹	
Social Science		
Select seven-eight credit hours		7.00-8.00
BUS-251	ORGANIZATIONAL BEHAVIOR ¹	
HIST-201	US HISTORY I ¹	
HIST-202	US HIST II: RECONSTRUC-PRESENT ¹	
HIST-230	WOMEN IN THE WESTERN PAST	
PSI-110	AMERICAN GOV'T & POLITICAL SCI ¹	
PSY-101	PSYCHOLOGY ¹	
PSY-210	HUMAN GROWTH & DEVELOPMENT ¹	
PSY-250	HUMAN SEXUALITY ¹	
PSY-260	SOCIAL PSYCHOLOGY ¹	
SOC-120	PRIN OF SOCIOLOGY ¹	
SOC-220	MARRIAGE & FAMILY LIVING ¹	
Elective		
Select three credit hours:		3.00
Technology Courses		

To be granted an Associate of Applied Science in Technology Degree, student must complete one (1) of the following Technology Certificates AND a minimum of 30 technology credit hours:

Automotive Technician Certificate	
Computer Aided Drafting & Design Certificate	
Computer Support Technician Certificate	
Electrical Technologies Certificate	
Machine Tool Certificate	
Welding Certificate	
Total Credits	60.00-62.00

¹

Course has prerequisite(s)

Tuition is calculated by contact hours per semester.

Current/Updated: 08/07/2019

Automotive Technician Certificate

Code	Title	Credits
Certificate Program Requirement		
Certificate of Achievement – Automotive Service ¹		16.00
Required Coursework		
15 credit hours		
AUTO-141	ENGINE DIAGNOSIS & IGNITION SYSTEMS ²	3.00
AUTO-226	AUTOMOTIVE HEATING & AIR COND ³	3.00
AUTO-245	AUTO VALVE TRAIN & HEAD REBUILDING ³	3.00
AUTO-246	AUTO CYLINDER BLOCK REBUILDING ³	3.00
Select one of the following:		3.00
AUTO-250	INTRO TO AUTOMOTIVE TRANSMISSIONS ³	
TECH-271	INTERNSHIP I-TECHNOLOGY (by special arrangement) ³	
Total Credits		31.00

¹

Students must complete to be granted the Automotive Technician Certificate.

²

Prerequisite courses must be completed prior to program admission.

³

Course has prerequisite(s)

Computer Aided Drafting & Design Certificate

Code	Title	Credits
Required Coursework		
30 hours		
CIS-101	INTRO TO COMPUTERS & SOFTWARE ¹	4.00
INDS-151	MANUFACTURING PROCESSES	3.00
CADD-215	BASIC AUTOCAD	3.00
CADD-216	ADVANCED AUTOCAD ¹	3.00
CADD-217	COMPUTER AIDED MODELING-INVENTOR ¹	3.00
Select one of the following:		3.00
CADD-218	COMPUTER AIDED MODELING-SOLIDWORKS ¹	
CADD-219	ADVANCED COMPUTER AIDED DRAFTING 3D,MODELING	
CADD-220	ARCHITECTURAL DRAWING ¹	3.00

CADD-221	CADD 3D INDEPENDENT PROJECT ¹	3.00
CADD-222	DESCRIPTIVE GEOMETRY ¹	3.00
CADD-230	CADD CAPSTONE PROJECT ¹	2.00
Total Credits		30.00

1

Course has prerequisite(s)

Tuition is calculated by contact hours per semester.
Current/Updated: 07/18/2019

Computer Support Technician Certificate

Code	Title	Credits
Required Coursework		
CIS-112	CISCO I	3.00
CIS-121	COMPUTER SCIENCE I	4.00
CIS-220	COMPUTER TECHNICIAN ESSENTIALS ¹	3.00
CIS-224	COMPUTER REPAIR ESSENTIALS ¹	3.00
CIS-240	INTRO TO NETWORKING ¹	3.00
CIS-241	INSTALL & CONFIGURE A WINDOWS NETWORK ¹	3.00
CIS-245	NETWORK SECURITY ¹	3.00
CIS-270	PC OPERATING SYSTEMS ¹	3.00
Select a minimum of six credits from the following CIS courses:		6.00
CIS-113	CISCO II ((must take for AACIS degree, Option 1))	
CIS-151	ETHICAL HACKING I	
CIS-172	LINUX OPERATING SYSTEMS	
CIS-243	ADMINISTRATING A WINDOWS SERVER ((must take for AACIS degree))	
CIS-272	LINUX OPERATING SYSTEM ADMINISTRATION	
Total Credits		31.00

1

Course has prerequisite(s)

Tuition is calculated by contact hours per semester.
Current/Updated: 07/23/2019

Electrical Technologies Certificate

Code	Title	Credits
Required Coursework		
ELEC-110	BASIC ELECTRICITY	4.00
ELEC-111	INTRO TO AC/DC CIRCUITS	4.00
ELEC-116	RESIDENTIAL TECHNOLOGY	4.00
ELEC-117	INDUSTRIAL/COMMERCIAL ELECTRICAL WIRING	4.00
ELEC-119	INTRO TO THE NATIONAL ELECTRICAL CODE	4.00
ELEC-120	ELECTRICAL MOTOR CONTROLS I	4.00
ELEC-122	INTRODUCTION TO MOTORS AND TRANSFORMERS	4.00
MATH-109 or MATH-151	MATH FOR TECHNICIANS I ¹ COLLEGE ALGEBRA	3.00-4.00
Total Credits		31.00-32.00

1

Course has prerequisite(s)

Tuition is calculated by contact hours per semester.

Current/Updated: 05/14/2020

Machine Tool Certificate

Code	Title	Credits
Required Coursework		
1090 hours		
MACH-105	MACHINE TOOL BASICS	0.17
MACH-110	MACHINE TOOL SAFETY	0.17
MACH-115	BLUEPRINT READING	1.16
MACH-120	FUNDAMENTAL SKILLS	1.98
MACH-125	PRECISION MEASUREMENT	2.75
MACH-130	DRILL PRESS AND BAND SAW	2.51
MACH-135	TURNING ON LATHE	4.61
MACH-140	ELECTRONIC DISCHARGE MACHINING	0.79
MACH-145	VERTICAL/HORIZONTAL MILLING	5.84
MACH-150	SURFACE GRINDING	2.75
MACH-155	CYLINDRICAL GRINDING	1.50
MACH-160	TOOL AND CUTTER GRINDING	3.00
MACH-165	CNC PROGRAMMING AND MACHINING	6.25
MACH-170	MACHINE TOOL PROJECTS	5.58
MACH-175	MASTERCAM	4.50
MACH-180	PLASMA CUTTER	1.84
Total Credits		45.40

1

Course has prerequisite(s)

Tuition is calculated by contact hours per semester.
Current/Updated: 08/14/2019

Welding Certificate

Code	Title	Credits
Required Coursework		
718 hours		
WELD-105	BASICS OF WELDING	0.50
WELD-110	OXYACETYLENE WELDING	2.00
WELD-115	CUTTING PROCESSES	1.00
WELD-120	BRAZING AND SOLDERING	1.00
WELD-125	SHIELDED METAL ARC WELDING	4.00
WELD-130	ADVANCED ARC WELDING	6.00
WELD-135	WELDING METALLURGY	1.50
WELD-140	GAS METAL ARC WELDING	3.00
WELD-145	GAS TUNGSTEN ARC WELDING	5.00
WELD-150	PIPE WELDING	4.00
WELD-155	SPECIAL APPLICATIONS	2.00
Total Credits		30.00

1

Course has prerequisite(s)

Tuition is calculated by contact hours per semester.
Current/Updated: 07/18/2019