INDUSTRIAL SYSTEMS TECHNOLOGY
Industrial Millwright Intermediate
Certificate Program (C50240F)
Required Courses

Prefix	Course Title	Class	Lab	Clinic	Work	Credit
FALL SEMESTER						
MAT 110	Math Measurement and Literacy	2	2	0	0	3
MEC 111	Machine Processes I	1	4	0	0	3
MNT 110	Intro to Maintenance Procedures	1	3	0	0	2
	TOTALS	**4**	**9**	**0**	**0**	**8**
SPRING SEMESTER						
HYD 110	Hydraulics/Pneumatics	2	3	0	0	3
WLD 115	SMAW (Stick) Plate	2	9	0	0	5
	TOTALS	**4**	**12**	**0**	**0**	**8**
	CERTIFICATE TOTAL					**16**

INDUSTRIAL SYSTEMS TECHNOLOGY
Industrial Millwright Advanced
Certificate Program (C50240G)
Required Courses

Prefix	Course Title	Class	Lab	Clinic	Work	Credit
FALL SEMESTER						
HUM 115	Critical Thinking	3	0	0	0	3
HYD 210	Advanced Hydraulics	1	3	0	0	2
	TOTALS	**4**	**3**	**0**	**0**	**5**
SPRING SEMESTER						
WLD 131	GTAW (TIG) Plate	2	6	0	0	4
WLD 151	Fabrication I	2	6	0	0	4
	TOTALS	**4**	**12**	**0**	**0**	**8**
	CERTIFICATE TOTAL					**13**

INFORMATION TECHNOLOGY

The Information Technology (IT) curriculum prepares graduates for employment in the technology sector as designers, testers, support technicians, system administrators, developers, or programmers who use computer software and/or hardware to design, process, implement and manage information systems in specialties such as database services, security, business intelligence, healthcare informatics and others depending on the technical path selected within this curriculum.

Coursework includes development of a student's ability to create, store, communicate, exchange and use information to solve technical issues related to information support and services, interactive media, network systems, programming and software development, information security and other emerging technologies based on the selected area of study.

Graduates should qualify for employment in entry-level positions with businesses, educational systems, and governmental agencies which rely on computer systems to design and manage information. The program will incorporate the competencies of industry-recognized certification exams.

Program Learning Outcomes:
- Identify appropriate computer equipment, operating systems, and software based on organizational needs.
- Identify security risks to a networked information system and identify methods for troubleshooting.
- Build a small local area network, using network devices.
- Demonstrate the ability to utilize operating systems, hardware and software to plan, design and/or create various application tasks as needed to input, process and manipulate data specifically within one of the core areas of concentration.

INFORMATION TECHNOLOGY
A.A.S. Degree (A25590)
Suggested Sequence of Courses

Prefix	Course Title	Class	Lab	Clinic	Work	Credit
FALL SEMESTER 1						
ACA 115	Success and Study Skills *or*					
ACA 122	College Transfer Success	0	2	0	0	1
CIS 110	Intro to Computers	2	2	0	0	3
CTI 110	Web, Program & DB Foundation	2	2	0	0	3
CTI 120	Network & Security Foundation	2	2	0	0	3
ENG 111	Writing and Inquiry	3	0	0	0	3
NOS 110	Operating System Concepts	2	3	0	0	3
	TOTALS	**11**	**11**	**0**	**0**	**16**
SPRING SEMESTER 1						
CCT 110	Intro to Cyber Crime	3	0	0	0	3
CTS 115	Information Systems Business Concept	3	0	0	0	3
CTS 210	Computer Ethics	3	0	0	0	3
HUM 115	Critical Thinking	3	0	0	0	3
SEC 150	Secure Communications	2	2	0	0	3
	TOTALS	**14**	**2**	**0**	**0**	**15**

Prefix	Course Title	Class	Lab	Clinic	Work	Credit
FALL SEMESTER 2						
CTI 140	Virtualization Concepts	1	4	0	0	3
DBA 110	Database Concepts	2	3	0	0	3
MAT 143	Quantitative Literacy	2	2	0	0	3
NOS 130	Windows Single-User	2	2	0	0	3
	TOTALS	**7**	**11**	**0**	**0**	**12**
SPRING SEMESTER 2						
COM 231	Public Speaking	3	0	0	0	3
CTS 120	Hardware / Software Support	2	3	0	0	3
NET 225	Enterprise Networking	1	4	0	0	3
NOS 230	Windows Admin I	2	2	0	0	3
PSY 150	General Psychology	3	0	0	0	3
WBL 111	Work-Based Learning 1	0	0	0	10	1
	TOTALS	**11**	**9**	**0**	**10**	**16**
	PROGRAM TOTAL					**62**

Choose One Subject Area
Network Management: NET 125 (SP 1) & NET 126 (FA 2)
Systems Security: NET 125 (SP 1) & SEC 110 (FA 1)