INDUSTRIAL SYSTEMS TECHNOLOGY

The Industrial Systems Technology curriculum is designed to prepare or upgrade individuals to service, maintain, repair, or install equipment for a wide range of industries. Instruction includes theory and skill training needed for inspecting, testing, troubleshooting, and diagnosing industrial equipment and physical facilities.

Students will learn technical skills in blueprint reading, electricity, hydraulics/pneumatics, machining, welding, and various maintenance procedures. Practical application in these industrial systems will be emphasized and additional advanced course work may be offered.

Upon completion of any of the various levels of this curriculum, graduates should gain the necessary practical skills and related technical information to qualify for employment or advancement in the various areas of industrial systems technology.

Student Learning Outcomes:

- ◆ Utilize tools and equipment to service and maintain mechanical systems, plumbing systems, hydraulic and pneumatic systems, and electrical and electronic systems.
- Create, interpret, and modify industrial blueprints and schematics.
- Perform preventive maintenance and troubleshoot a variety of industrial systems.
- Perform various welding and cutting processes used in current industry.

INDUSTRIAL SYSTEMS TECHNOLOGY A.A.S. Degree (A50240)

Suggested Sequence of Courses										
Prefix	Course Title	Jass	Lab	Jimic	Vork	redit				
TICHA	Course Title	_	_	_		_				
	FALL SEMESTER 1									
ACA 115	Success and Study Skills	0	2	0	0	1				
BPR 111	Print Reading	1	2	0	0	2				
ELC 112	DC/AC Electricity	3	6	0	0	5				
HYD 110	Hydraulics and Pneumatics	2	3	0	0	3 2 3				
ISC 112	Industrial Safety	2	0	0	0	2				
MEC 111	Machine Processes I	1	4	0	0					
MNT 110	Introduction to Maintenance Procedures	1	3	0	0	2				
	TOTALS	10	20	0	0	18				
	SEMESTER 1									
	Introduction to Computers	2	2	0	0	3				
ELC 117	Motors and Controls	2	6	0	0	4				
	Intro to PLC	2	3	0	0	3				
MEC 110	Intro to CAD/CAM	1	2	0	0	2				
	Humanities/Fine Arts Elective	3	0	0	0	3				
	TOTALS	10	13	0	0	15				
CLIMANTEL	R SEMESTER 1									
	Freshman Composition <i>or</i>	2	0	0	0	2				
ENG III	Writing and Inquiry	3 3	0	0	0	3				
	TOTALS	3	U	U	U	3				
FALL SE	MESTER 2									
AHR 111	HVACR Electricity	3	2	0	0	3				
	Math Measurement and Literacy	2	2	0	0					
	Cutting Processes	1	3	0	0	2				
	Basic Welding	1	3	0	0	3 2 2				
	GMAW (MIG) FCAW/Plate	2	6	0	0	4				
11 ID 121	TOTALS	9	16	0	0	14				
			10	•	•	••				

Prefix	Course Title	Class	Lab	Clinic	Work	Credi				
SPRING SEMESTER 2										
COM 231	Public Speaking <i>or</i>									
ENG 11:	5 Oral Communication	3	0	0	0	3				
WLD 115	S SMAW (Stick) Plate	2	9	0	0	5				
WLD 141	Symbols & Specifications	2	2	0	0	3				
	Behavioral/Social Sciences Elective	3	0	0	0	3				
	TOTALS	10	11	0	0	14				
	PROGRAM TOTAL					64				

