

# Associate In Applied Science Degree (INT)

Industrial Plant Technicians install and maintain manufacturing equipment. Technicians must be able to detect minor problems and correct them before they become larger problems. Industrial Plant Technicians use technical manuals, their understanding of the equipment, and careful observation to discover the cause of the problem. For example, after hearing a vibration from a machine, the technician must decide whether it is due to worn belts, weak motor bearings, or some other problem. Technicians are prepared to use computerized diagnostic systems and vibration analysis equipment to determine the nature of a problem. Increasingly, Industrial Plant Technicians have the electrical, electronics, and computer programming skills to repair sophisticated equipment on their own.

**Program:** Industrial Mechanical Maintenance Technology (INT)

**Type:** AAS Degree

## Orientation

Item #	Title	Credits
ORI 107	STUDENT SURVIVAL SKILLS	1

## Field of Concentration Courses

Item #	Title	Credits
	MTT 100 or MTT 147 & 148	6
	MTT 103 or MTT 149 & 150	6
MTT 121	BASIC PRINT READING FOR MACHINISTS	3
WKO 110	NCCER CORE	3
MTT 127	INTRODUCTION TO METROLOGY	3
INT 117	PRINCIPLES OF INDUSTRIAL MECHANICS	3
INT 134	PRINCIPLES OF INDUSTRIAL MAINTENANCE WELDING AND METAL CUTTING TECHNIQUES	3
INT 118	FUNDAMENTALS OF INDUSTRIAL HYDRAULICS AND PNEUMATICS	3
MTT 292	COOPERATIVE EDUCATION IN MACHINE TOOL TECHNOLOGY	3
ELM 214	PUMPS AND PIPING SYSTEMS	3
WDT 108	SMAW FILLET/OFC	3
WDT 122	SMAW FILLET/OFC LAB	3
WDT 119	GAS METAL ARC/FLUX CORED ARC WELDING	3
MTT 181	SPECIAL TOPICS IN MACHINE TOOL TECHNOLOGY	3

## General Studies Courses

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION I	3
	MTH 116 or Higher	3
	Natural Science/Math Elective	3-4
	History or Social/Behavioral Science Elective	3
	Humanities/Fine Arts Elective	3
	<b>Total credits:</b>	<b>64-65</b>

## Category Descriptions

### MTT 100 or MTT 147 & 148

Credits: 6

### MTT 103 or MTT 149 & 150

Credits: 6

### MTH 116 or Higher

Credits: 3

credits

Off

### Natural Science/Math Elective

Credits: 3-4

### History or Social/Behavioral Science Elective

Credits: 3

### Humanities/Fine Arts Elective

Credits: 3