

Advanced Manufacturing Technology

Process Operations Technology Option

Semester 1

Lab Hrs = 2:1

Course #	Course Name	Credits	Theory	Lab	Contact Hrs
INT 129	* Industrial Safety and Maintenance Technques **	3	1	2	5
MTH 100	Intermediate College Algebra	3	3	0	3
PCT 122	Introduction to Process Technology	3	2	1	4
ORI 106	Orientation and Student Success	3	3	0	3
TOTAL SEMESTER CREDITS		12	9	3	15

Semester 2

Course #	Course Name	Credits	Theory	Lab	Contact Hrs
IST 167	* Industrial Measurements **	5	3	2	7
INT 117	* Principles of Industrial Mechanics **	3	2	1	4
ELECTIVE	Humanities/Fine Arts Elective	3	3	0	3
INT 114	Basic Electricity	3	2	1	4
TOTAL SEMESTER CREDITS		14	10	4	18

Semester 3 (Summer Semester)

Course #	Course Name	Credits	Theory	Lab	Contact Hrs
PCT 115	Instrumentation I	3	2	1	4
INT 118	* Fundamentals of Industrial Hydraulics & Pneumatics	3	2	1	4
ENG 101	English Composition I	3	3	0	3
INT 127	Principles of Industrial Pumps and Piping systems	3	2	1	4
TOTAL SEMESTER CREDITS		12	9	3	15

Semester 4

Course #	Course Name	Credits	Theory	Lab	Contact Hrs
CHM 104	Introduction to Chemistry I	4	3	1	5
PCT 220	Process Technology II - Systems	4	3	1	5
IST 207	Principles of Automatic Control	5	3	2	7
TOTAL SEMESTER CREDITS		13	9	4	17

Semester 5

Course #	Course Name	Credits	Theory	Lab	Contact Hrs
IST 233	Unit Operations **	5	3	2	7
PCT 231	Statistical Control	3	2	1	4
Elective	History, Social, Behavioral Science	3	3	0	3
PCT 240	Process Troubleshooting	4	3	1	5
TOTAL SEMESTER CREDITS		15	11	4	19

The Process Operations Technology Option utilizes the North America Process Technology Alliance (NAPTA) PTEC Curriculum

* This is a "Core" class - required for the Advanced Manufacturing Technology program.

** These classes includes topics covering the MSSC CPT. Upon passing four assessments, student will receive the CPT Credential.

Program Totals			
66	48	18	84
Credits	Theory	Lab	Contact Hrs