



PROCESS PLANT TECHNOLOGY

What is process plant technology?

This program prepares students for challenging and rewarding careers in a variety of petroleum, petrochemical, and inorganic chemical processing industries. Entering students should be aware that Operators will work rotating shifts and must be in good physical condition. Operators are likely to be exposed to a variety of chemicals. **This is a Fall start program.**

What you will learn

The program is committed to supplying technically excellent graduates for industry.

- The core curriculum includes chemistry, plant sciences, equipment operations, process control and advanced computer skills.
- Safety and environmental courses are required each semester.
- In addition, communications, computers and human relations classes are required as part of team building skills, which are viewed as essential for successful Operators.

Onsite Training

Students will acquire practical experience by completing the Cooperative Education course in the last semester in addition to other possible visits to local sites.

Type of college degree

Associate of Applied Science (two years)

Career information

Process Plant Technology graduates will usually find career opportunities through initial assignments in one of a variety of industries including: Petroleum Refining, Petrochemical Manufacturing Plants, Electrical Power Generation Facilities, Inorganic Chemical Production, Food Processing, and Paper Manufacturing.

Job Outlook and Pay

Median Wage (MT)*	\$62,890 yearly \$32.40 per hour
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Median Wage (US)*	\$67,400 yearly \$32.40 per hour
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*Bureau of Labor Statistics, Office of Employment Projections, MT Dept. of Labor and Industry, Research and Analysis Bureau (projections through MT 2024 and US 2026)

**For more information visit <http://www.careerinfonet.org/Occupations>.

City College entry-level wages of graduates:
\$74,828 (2014-2017)

Process Plant Technology

(Associate of Applied Science)*

Required Courses	Credits
BGEN 105 Introduction to Business.....	3
CAPP 120 Introduction to Computers.....	3
COMX 106 Communicating in a Dynamic Workplace.....	3
COMX 111 Introduction to Public Speaking.....	3
M 114 Extended Technical Mathematics.....	3
PPT 101 Fundamentals of Processing Technology Lecture.....	4
PPT 102 Fundamentals of Processing Technology Laboratory.....	1
PPT 120 Environmental Awareness.....	2
PPT 130 Process Diagrams for Process Technology.....	2
PPT 135 Instrumentation and Control Systems Lecture.....	4
PPT 136 Instrumentation and Control Systems Laboratory.....	1
PPT 151 Process Plant Safety I.....	2
PPT 161 Process Plant Safety II.....	2
PPT 175 Process Plant Sciences Lecture.....	4
PPT 176 Process Plant Sciences Laboratory.....	1
PPT 207 Boilers, Accessories & Basic Operations.....	3
PPT 208 Equipment and Operations Laboratory.....	2
PPT 210 Equipment and Operations Lecture.....	4
PPT 211 Advanced Operations Lecture.....	2
PPT 212 Advanced Operations Laboratory.....	1
PPT 220 Quality Control Practices.....	2
PPT 225 Plant Investigation and Troubleshooting.....	2
PPT 296 Cooperative Education/Internship.....	3
TRID 160 Hazardous Materials Technician General Training.....	3
TRID 185 Introduction to Industrial Power Systems.....	2
TRID 186 Introduction to Industrial Power Systems Laboratory.....	1
WRIT 122 Intro to Business Writing or	
WRIT 121 Intro to Technical Writing.....	3
Restricted Elective (to be selected in consultation with the advisor).....	3
Total minimum credits required for degree.....	69

Suggested Elective options:

BIOB 101 Discover Biology
 CAPP 110 Short Courses: MS Outlook
 CAPP 156 MS Excel
 PWRP 210 Turbines, Accessories and Basic Operations
 SOCI 101 Introduction to Sociology
 TRID 151 Welding

Students should check the course descriptions for required prerequisites. Math and English requirements are usually determined by performance on placement tests or transfer credits.

Before a student can be accepted into the Process Plant Technology Program, competency in Math and English must be demonstrated. This may be done by:

- Receiving a passing score on the Placement Test that indicates adequate preparation to enroll in WRIT 121/122 and M 114
- Transfer of appropriate credits
- Current ACT/SAT scores in the required range showing readiness to take WRIT 121/122 and M 114

If none of the above criteria are met, a student must complete the necessary prerequisite english and math classes identified in this catalog (WRIT 104 and/or M 095).

Check with the Advising Office to determine how you can meet these requirements.

Suggested Plan of Study

Process Plant Technology,
Associate of Applied
Science Degree

First Semester	Credits
CAPP 120.....	3
M 114.....	3
PPT 101.....	4
PPT 102.....	1
PPT 130.....	2
PPT 151.....	2
TRID 185.....	2
TRID 186.....	1
Total.....	18

Second Semester	Credits
COMX 111.....	3
PPT 120.....	2
PPT 135.....	4
PPT 136.....	1
PPT 161.....	2
PPT 175.....	4
PPT 176.....	1
Total.....	17

Third Semester	Credits
BGEN 105.....	3
COMX 106.....	3
PPT 207.....	3
PPT 208.....	2
PPT 210.....	4
TRID 160.....	3
Total.....	18

Fourth Semester	Credits
WRIT 122 or 121.....	3
PPT 211.....	2
PPT 212.....	1
PPT 220.....	2
PPT 225.....	2
PPT 296.....	3
Restricted Elective.....	3
Total.....	16