Process Plant Technology Degree Program

This program, offered both on-campus and online, was established in 1981 and prepares students for employment operating refineries, ethanol plants, natural gas processing plants, gasification plants, petrochemical plants, and related processing facilities. Students learn the technical and safety aspects of plant operations, the responsibilities of plant operators and the mechanical and chemical technology needed for working in related industrial operations. Students have the option to enter into the Bachelor of Applied Science in Energy Management degree, also available entirely online, upon completion of this program.
Process Plant Technology focuses on training people on the equipment and technology required to create a product. Examples of such products include natural gas, gasoline, ethanol, biodiesel, food products, etc.

Even incumbent workers can gain valuable knowledge which helps them to become more valuable in today's competitive world.

The program provides a foundation of knowledge for working in these facilities including the safety and technical aspects of operating the plant, the work of a plant operator and the mechanical and chemical technology needed for working in industrial operations.

Students choosing to complete all courses in the Process Plant Technology program can follow the recommended sequence or create a customized schedule based on their needs. Students should consult with their academic advisor prior to registration for academic advice based on individual educational plans.

This program is offered online or on-campus. Online courses require brief on-campus labs or shadowing at an approved facility.

Process Plant Technology
Associate Degree Technical Courses

Recommended Sequence - 1st Semester
ENRT 101 Introduction to Energy Technology
ENRT 105 Safety, Health & Environment
ENRT 107 Mechanical Fundamentals
ENRT 110 Plant Equipment & Systems

Recommended Sequence - 2nd Semester
ENRT 112 Print Reading
ENRT 103 Applied Math
ENRT 104 Electrical Fundamentals
ENRT 116 Instrumentation & Control

Recommended Sequence - 3rd Semester
ENRT 118 Heat Transfer, Fluid Flow & Thermodynamics
ENRT 120 Water Purification & Treatment
ENRT 205 Steam Generation
ENRT 215 Operations, Troubleshooting & Communications

Recommended Sequence - 4th Semester
PROP 235 Hydrocarbon Chemistry
PROP 237 Distillation & Refinery Operations
PROP 244 Ethanol & Biofuel Production
PROP 239 Gas Processing
ENRT 220 Practical Applications

For more information on the Process Plant Technology program, visit our website at bismarckstate.edu/energy. Contact us at 701.224.5651 or 800.852.5685.