

Bismarck State College

National Energy Center of Excellence

Process Plant Technology Educational Plan

Name: _____

Date: _____

The educational plan is a list of courses that students need to complete prior to obtaining their Associate in Applied Science Degree. Students are responsible to contact their advisor if they have any questions. **The course names and numbers are subject to change without notice and may not be regarded as binding obligations on BSC or the state of North Dakota.**

Total Credits Required Process Plant Tech Credits Required General Ed. Credits Required

A.A.S. Degree	67	52	15
Certificate of Completion	56	52	4

Note: The word "credits" in these titles equals semester credit hours.

Semester I:	Tech Credits	Completed
ENRT 101 Introduction to Energy Technology	4	
ENRT 105 Safety, Health & Environmental Practices	3	
ENRT 107 Mechanical Fundamentals	2	
ENRT 110 Plant Equipment & Systems	4	
Total – 1st semester	13	
Semester II:	Tech Credits	Completed
ENRT 112 Print Reading	3	
ENRT 103 Applied Math	3	
ENRT 104 Electrical Fundamentals	3	
ENRT 116 Instrumentation & Control	4	
Total – 2nd semester	13	
Semester III:	Tech Credits	Completed
ENRT 118 Heat Transfer, Fluid Flow & Thermodynamics	3	
ENRT 120 Water Purification & Treatment	3	
ENRT 205 Steam Generation	3	
ENRT 215 Operations, Troubleshooting & Communications	3	
Total – 3rd semester	12	
Semester IV:	Tech Credits	Completed
PROP 235 Hydrocarbon Chemistry	3	
PROP 237 Distillation & Refinery Operations	3	
PROP 244 Ethanol & Biofuels Production	3	
PROP 239 Gas Processing	3	
ENRT 220 Practical Applications	2	
Total 4th semester	14	
Total technical credits	52	
A total of 15 general education credits and 52 technical credits are required for the AAS degree. They may be taken prior to, in conjunction with or after completion of the technical credits.		
General Education (Communications)	6	
General Education (Arts & Humanities)	3	
General Education Business/Math/Science/Technology	6	
Total technical and general education credits	67	

General Education Online Classes for Associate in Applied Science degrees

Communications (6 credits)

ENGL 110	College Composition I (REQUIRED)	3 credits	
ENGL 120	College Composition II (ENGL 110 prerequisite)	3 credits	
ENGL 125	Intro to Professional Writing (ENGL 110 prerequisite)	3 credits	
COMM 110	Fund of Public Speaking	3 credits	

Arts and Humanities/Social and Behavioral Sciences (3 credits)

Art 110	Intro to Visual Arts	3 credits	
ENGL 278	Alternative Literature	3 credits	
HIST 104	United States Since 1877	3 credits	
HUMS 210	Integ Cultural Studies	3 credits	
MUSC 100	Music Appreciation	3 credits	
PHIL 101	Intro to Philosophy	3 credits	
PHIL 210	Ethics	3 credits	
CJ 201	Intro to Criminal Justice	3 credits	
ECON 201	Principles of Microeconomics	3 credits	
ECON 202	Principles of Macroeconomics	3 credits	
POLS 116	State and Local Government	3 credits	
PSYC 111	Intro to Psychology	3 credits	
SOC 110	Intro to Sociology	3 credits	
SOC 115	Social Problems	3 credits	
SOC 220	Family	3 credits	
SOC 235	Cultural Diversity	3 credits	
SOC 252	Criminology	3 credits	
SOC 275	Native American Studies	3 credits	
SWK 256	Develop of Social Welfare	3 credits	

Business, Math, Science and Technology (6 credits in any two areas of study)

For example, enroll in a math and an accounting course, but not two accounting courses or two math courses.

ACCT 200	Elements of Accounting I	3 credits	
ACCT 201	Elements of Accounting II	3 credits	
BIOL 111	Concepts of Biology/lab	3/1 credits	
BIOL 124	Environmental Science	3 credits	
BUSN 120	Fund of Business	3 credits	
BADM 202	Principles of Management	3 credits	
BADM 240	Sales	3 credits	
BADM 281	Organizational Behavior	3 credits	
BADM 282	Human Resource Mgmt	3 credits	
CSCI 101	Introduction to Computers	3 credits	
CSCI 122	Beginning/Visual Basic	3 credits	
CSCI 160	Computer Science I	3 credits	
MATH 102	Intermediate Algebra	3 credits	
MATH 103	College Algebra	4 credits	
MATH 210	Elementary Statistics	3 credits	
NUTR 240	Princ of Nutrition	3 credits	

Academic Skills Courses (ASC) Courses with numbers below 100 are considered college prep courses and do not apply toward graduation credits.

ASC 087	College Writing Prep	3 credits	
ASC 088	Composition Lab	1 credit	
ASC 089	Composition Lab	1 credit	

Graduation requirements for the following educational plans in Process Plant Technology

Associate in Applied Science in Process Plant Technology (67 semester credit hours)

- Complete 52 semester credits of technical core courses in Process Plant Technology
- Complete 15 semester credits of general education
- Complete at least 15 semester credit hours from Bismarck State College
- Achieve a minimum 2.00 grade point average (C average) in
 - At least 60 semester credit hours less the semester credit hours given for CLEP examinations, military training and life experience
 - All of your Process Plant Technology courses
 - All credits from Bismarck State College

NOTE: CLEP examinations, military training and life experience credits are given a grade of satisfactory and do not change your grade point average.

- Complete the ENRT 220 Practical Applications course that includes "hands on" work at either a Process facility or at the BSC lab.
- Clear all college obligations
- Submit an [Application for Graduation](#) at the beginning of the term which you expect to graduate.

Certificate of Completion in Process Plant Technology (56 semester credit hours)

- Complete 52 semester credits of technical core courses of Process Plant Technology
- Complete 4 semester credits of general education from any two areas of study
- Complete at least 15 semester credit hours from Bismarck State College
- Achieve a minimum 2.00 grade point average (C average) in
 - All of your Process Plant Technology courses
 - All credits from Bismarck State College
- Complete the ENRT 220 Practical Applications course that includes "hands on" work at either a Process facility or at the BSC lab.
- Clear all college obligations
- Submit an [Application for Graduation](#) at the beginning of the term which you expect to graduate.

Contact us:

1-800-852-5685 or 701-224-5651

www.bismarckstate.edu/energy