

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.

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

A.A.S. Degree	67	52	15
Diploma	61	52	9
Certificate of Completion	56	52	4

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

Semester I:	Tech Credits	Completed
PROP 102 Introduction to Process Technology	3	
ENRT 103 Applied Math	3	
ENRT 105 Safety	3	
ENRT 106 DC Fundamentals	2	
ENRT 108 AC Fundamentals	3	
Total – 1st semester	14	
Semester II:	Tech Credits	Completed
PROP 201 Process Equipment	3	
ENRT 112 Basic Print Reading	2	
ENRT 116 Instrumentation & Control	4	
ENRT 118 Thermodynamics	3	
Total – 2nd semester	12	
Semester III:	Tech Credits	Completed
ENRT 120 Water Purification and Treatment	2	
PROP 216 Process Boilers	2	
PROP 235 Hydrocarbon Chemistry	3	
PROP 237 Distillation and Refinery Operations	4	
PROP 239 Gas Processing	3	
Total – 3rd semester	14	
Semester IV:	Tech Credits	Completed
PROP 244 Ethanol and Biofuels Production	4	
PROP 212 Auxiliary Systems and Refrigeration	3	
PROP 218 Process Operations & Troubleshooting	3	
ENRT 220 Practical Applications	2	
Total 4th semester	12	
Total Technical Credits	52	
In addition to the energy courses, 15 general education credits are required for the AAS degree:		

General Education Credits

In addition to the energy courses, 15 general education credits are required for the AAS degree:

<u>Communications - 6 credits</u>	Gen Ed Credits	Completed
English 110 - College Composition (required)	3	
Choose one:		
English 120 – College Composition II (Prerequisite: ENGL 110)	3	
English 125 – Introduction to Professional Writing (Prerequisite: ENGL 110)	3	
Communications 110 – Fundamentals of Public Speaking	3	
<u>Arts & Humanities/Social & Behavioral Sciences - 3 credits</u>		
Choose one:	Gen Ed Credits	Completed
CJ 201 Introduction to Criminal Justice	3	
ECON 201 Principles of Microeconomics	3	
ECON 202 Principles of Macroeconomics	3	
HIST 103 United States History to 1877	3	
PHIL 210 Ethics	3	
PSYC 111 Introduction to Psychology	3	
SOC 110 Introduction to Sociology	3	
<u>Business/Math/Science/Technology - 6 credits in any two areas of study</u>		
For example, enroll in a biology course and a math course, but not two math courses or biology courses.		
Choose two:	Gen Ed Credits	Completed
ACCT 200 Elements of Accounting I	3	
BADM 202 Principles of Management	3	
BADM 282 Human Resource Management	3	
BIOL 124 Environmental Science	3	
CHEM 110/110L Survey of Chemistry/lab	3/1	
CSCI 101 Introduction to Computers	3	
GEOG 121/121L Physical Geography/lab	3/1	
NUTR 240 Principles of Nutrition	3	
Total General Education Credits	15	

*The list of general education classes are not all the choices that are available. Please contact your advisor if you want to take something that is not listed above.

Contact us!

www.bismarckstate.edu/energy

701.224.5651 or 800.852.5685