

Bismarck State College

National Energy Center of Excellence

Nuclear Power 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.

	Approx. Time to Complete Program	Total Credits Required	Nuclear Power Technical Credits Required	General Ed. Credits Required
A.A.S. Degree	2 years	64	49	15
Program Certificate	1 1/2 years	53	49	4

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

Semester I: - offered in fall semesters	Tech Credits	Completed
NUPT 101 Overview of Nuclear Energy	2	
NUPT 103 Nuclear Mathematics Fundamentals	3	
NUPT 105 Classical Physics	4	
NUPT 107 Engineering Drawings, Diagrams and Schematics	3	
Total – 1st semester	12	
Semester II: - offered in spring semesters	Tech Credits	Completed
NUPT 109 Electrical Science	4	
NUPT 215 Nuclear Plant Chemistry	3	
NUPT 213 Nuclear Physics	3	
NUPT 220 Reactor Theory	2	
Total – 2nd semester	12	
Semester III: - offered in fall semesters	Tech Credits	Completed
NUPT 217 Heat Transfer Fluid Flow & Thermodynamics	4	
NUPT 223 Reactor Safety Design	3	
NUPT 219 Material Science	3	
NUPT 221 Science of Radiological Protection	3	
Total – 3rd semester	13	
Semester IV – offered in spring semesters		
NUPT 111 Instrumentation and Control	4	
NUPT 225 Nuclear Plant System Components, Design and Function	4	
NUPT 227 Conduct of Facility Operations	4	
Total – 4th semester	12	
Total Technical Credits	51	

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 800.852.5685/27/09