

Name: \_\_\_\_\_ Date: \_\_\_\_\_



**Nuclear Power Technology**  
Associate in Applied Science  
Advising Worksheet\* 2017-2018

<b>Non-License Operator Track</b>	
Prescribed Technical Program Total	52
General Education Total	15
<b>Total Degree Credits</b>	<b>67</b>

<b>Instrumentation &amp; Control Track</b>	
Prescribed Technical Program Total	57
General Education Total	15
<b>Total Degree Credits</b>	<b>72</b>

**1st Semester (Fall Only) -Non-License Operator Track only**

**Prescribed Technical Program Requirements**

NUPT	101	Overview of Nuclear Energy	2
NUPT	103	Nuclear Mathematics Fundamentals	3
NUPT	105	Classical Physics	4
NUPT	107	Engineering Drawings, Diagrams, Schematics	3
<b>Total Credits</b>			<b>12</b>

**2nd Semester (Spring Only) - Non-License Operator Track**

**Prescribed Technical Program Requirements**

NUPT	113	Mechanical Science	3
NUPT	215	Nuclear Plant Chemistry	3
NUPT	109	Electrical Science	4
NUPT	213	Nuclear Physics	3
<b>Total Credits</b>			<b>13</b>

**3rd Semester (Fall Only) - Non-License Operator Track**

**Prescribed Technical Program Requirements**

NUPT	217	Heat Transfer, Fluid Flow & Thermodynamics	4
NUPT	111	Instrumentation & Control	4
NUPT	221	Science of Radiological Protection	3
NUPT	219	Material Science	3
<b>Total Credits</b>			<b>14</b>

**4th Semester (Spring Only) - Non-License Operator Track**

**Prescribed Technical Program Requirements**

NUPT	220	Reactor Theory	2
NUPT	225	Nuclear Plant Sys. Comp., Design & Function	4
NUPT	223	Reactor Safety Design	3
NUPT	227	Conduct of Facility Operations	4
<b>Total Credits</b>			<b>13</b>

**1st Semester (Fall Only) -I&C Track**

**Prescribed Technical Program Requirements**

NUPT	103	Nuclear Mathematics Fundamentals	3
NUPT	105	Classical Physics	4
NUPT	219	Material Science	3
NUPT	221	Science of Radiological Protection	3
<b>Total Credits</b>			<b>13</b>

**2nd Semester (Spring Only) - I&C Track**

**Prescribed Technical Program Requirements**

NUPT	113	Mechanical Science	3
NUPT	215	Nuclear Plant Chemistry	3
NUPT	109	Electrical Science	4
NUPT	213	Nuclear Physics	3
<b>Total Credits</b>			<b>13</b>

**3rd Semester (Fall Only) - I&C Track**

**Prescribed Technical Program Requirements**

ICTL	215	Instrumentation Drawings & Documentation	4
NUPT	217	Heat Transfer, Fluid Flow & Thermodynamics	4
NUPT	111	Instrumentation & Control	4
ICTL	225	Input & Output Devices	4
<b>Total Credits</b>			<b>16</b>

**4th Semester (Spring Only) - I&C Track**

**Prescribed Technical Program Requirements**

ICTL	235	Motors & Controllers	4
NUPT	225	Nuclear Plant Sys. Comp., Design & Function	4
NUPT	223	Reactor Safety Design	3
NUPT	229	Instrumentation & Control II	4
<b>Total Credits</b>			<b>15</b>

**General Education Requirements**

**Arts & Humanities/Social & Behavioral Sciences**

1.	3
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**Business, Math, Science & Technology** (Two areas of study required.)

1.	3
2.	3

**Communications I**

ENGL	110	College Composition I (Required)	3
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**Communications II** (Select one course.)

ENGL	120	College Composition II	
ENGL	125	Intro to Professional Writing	3
COMM	110	Fundamentals of Public Speaking	

**Total Credits 15**

# Associate in Applied Science (AAS) 2017-2018 Catalog

Advisor: \_\_\_\_\_  
 Office: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Email: \_\_\_\_\_

## Degree Checklist

- Credits
- \_\_\_\_\_ Earned a minimum of 3 credits in ENGL 110
- \_\_\_\_\_ Earned a minimum of 3 credits in ENGL 120, ENGL 125 or COMM 110
- \_\_\_\_\_ Earned a minimum of 3 credits in Arts & Humanities/Social & Behavioral Sciences
- \_\_\_\_\_ Earned a minimum of 6 credits in Business, Math, Science & Technology
- \_\_\_\_\_ Completed prescribed technical program requirements
- Earned a minimum of 60 credits  
*-Academic Skills Courses (ASC) do not count toward graduation*

- Earned at least 15 semester hours of institutional credit from BSC
- Minimum of 2.00 institutional GPA (BSC only)
- Minimum of 2.00 cumulative GPA (BSC + Transfer)
- Minimum of 2.00 GPA in a prescribed technical program
- Cleared all college obligations
- Declared program of study is degree seeking
- Filed an Application for Degree in the Academic Records Office

Legend  
 (\*) Course not approved as GERTA

## General Education Requirements

**Category I: COMMUNICATIONS** Completed \_\_\_\_\_ Needed \_\_\_\_\_

**Communications I**  
*(3 Credits) - ENGL 110*

Gr.	Cr.	Course
_____	3	ENGL 110 College Composition I
Transfer Course		

**Communications II**  
*(3 Credits) - ENGL 120, 125, COMM 110 (Select one)*

Gr.	Cr.	Course
_____	3	ENGL 120 College Composition II
_____	3	ENGL 125 Introduction to Professional Writing
_____	3	COMM 110 Fundamentals of Public Speaking
Transfer Course		

## General Education Requirements Continued

### Category II: ARTS & HUMANITIES/SOCIAL & BEHAVIORAL SCIENCES

Completed \_\_\_\_\_

Needed \_\_\_\_\_

(3 Credits)

Gr.	Cr.		Gr.	Cr.		Gr.	Cr.	
_____	3	ART 110	_____	3	HIST 101	_____	3	POLS 115
_____	3	ART 122	_____	3	HIST 102	_____	3	POLS 116
_____	3	ART 124	_____	3	HIST 103	_____	3	POLS 220
_____	3	ART 130	_____	3	HIST 104	_____	3	PSYC 111
_____	3	ART 210	_____	3	HIST 211	_____	3	* PSYC 211
_____	3	ART 211	_____	3	HIST 212	_____	3	PSYC 250
_____	3	ART 220	_____	3	HIST 220	_____	3	* PSYC 261
_____	3	ART 221	_____	3	HIST 222	_____	3	PSYC 270
_____	3	ART 230	_____	3	HIST 224	_____	3	RELS 120
_____	3	ART 250	_____	3	HIST 225	_____	3	RELS 201
_____	3	ART 251	_____	1-3	* HIST 243	_____	3	RELS 203
_____	2	ART 265	_____	3	HUMS 210	_____	3	RELS 220
_____	2	ART 266	_____	1-4	HUMS 211	_____	3	RELS 230
_____	3	CJ 201	_____	2	HUMS 212	_____	3	SOC 110
_____	3	COMM 112	_____	3	MUSC 100	_____	3	SOC 115
_____	3	COMM 211	_____	1	MUSC 117	_____	3	SOC 220
_____	3	COMM 212	_____	1	MUSC 118	_____	3	SOC 221
_____	3	ECON 105	_____	1	MUSC 121	_____	3	SOC 235
_____	3	ECON 201	_____	1	MUSC 132	_____	3	SOC 251
_____	3	ECON 202	_____	1	MUSC 133	_____	3	SOC 252
_____	3	ENGL 211	_____	1	MUSC 134	_____	3	SOC 275
_____	3	ENGL 221	_____	1	MUSC 135	_____	4	SPAN 101
_____	3	ENGL 222	_____	1	MUSC 136	_____	4	SPAN 102
_____	3	ENGL 233	_____	1	MUSC 137	_____	4	SPAN 201
_____	3	ENGL 236	_____	1	* MUSC 138	_____	4	SPAN 202
_____	3	ENGL 238	_____	1	MUSC 145	_____	3	SWK 256
_____	3	ENGL 251	_____	1	MUSC 146	_____	3	THEA 110
_____	3	ENGL 252	_____	3	PHIL 101	_____	3	THEA 161
_____	3	ENGL 261	_____	3	PHIL 210	_____	3	THEA 261
_____	3	ENGL 262	_____	3	PHIL 220	_____		
_____	3	ENGL 278	_____	3	PHIL 250	_____		
_____	3	GEOG 161	_____	3	PHIL 253	_____		

Transfer Courses

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Transfer Courses

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Transfer Courses

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## General Education Requirements Continued

### Category III: BUSINESS, MATH, SCIENCE & TECHNOLOGY

Completed \_\_\_\_\_

Needed \_\_\_\_\_

(6 Credits) Must be satisfied with courses from two areas of study. Area of study is based on course prefix.

Gr.	Cr.			Gr.	Cr.			Gr.	Cr.			
_____	3	*	ACCT 200	Elements of Accounting I	_____	3/1	CHEM 110	Survey of Chemistry/Lab	_____	3	MATH 146	Applied Calculus I
_____	3	*	ACCT 201	Elements of Accounting II	_____	3/1	CHEM 112	Introduction to Forensic Science/Lab	_____	4	MATH 165	Calculus I
_____	3/1		ASTR 150	Meteorology/Lab	_____	3/1	CHEM 114	Chemistry in Art/Lab	_____	4	MATH 166	Calculus II
_____	3	*	BADM 202	Principles of Management	_____	4/1	CHEM 115	Introductory Chemistry/Lab	_____	3	* MATH 208	Discrete Mathematics
_____	3	*	BADM 210	Advertising I	_____	4/1	CHEM 116	Intro to Organic and Biochemistry/Lab	_____	3	MATH 210	Elementary Statistics
_____	3	*	BADM 240	Sales	_____	4/1	CHEM 121	General Chemistry I/Lab	_____	4	* MATH 277	Math for Elementary Teachers I
_____	3	*	BADM 281	Organizational Behavior	_____	4/1	CHEM 122	General Chemistry II/Lab	_____	3/1	MICR 202	Introductory Microbiology/Lab
_____	3	*	BADM 282	Human Resource Management	_____	4	* CIS 164	Networking Fundamentals I	_____	3	* NUTR 240	Principles of Nutrition
_____	1	*	BIOL 102	Introduction to Aquarium Keeping	_____	3	CSCI 101	Introduction to Computers	_____	3/1	PHYS 100	Concepts of Physics/Lab
_____	3		BIOL 109	The Living World	_____	3	CSCI 122	Beginning Visual Basic	_____	3/1	PHYS 110	Introductory Astronomy/Lab
_____	3/1		BIOL 111	Concepts of Biology/Lab	_____	4	CSCI 160	Computer Science I	_____	3/1	PHYS 211	College Physics I/Lab
_____	3/1		BIOL 115	Human Structure and Function/Lab	_____	4	CSCI 161	Computer Science II	_____	3/1	PHYS 212	College Physics II/Lab
_____	3		BIOL 124	Environmental Science	_____	3/1	GEOG 121	Physical Geography/Lab	_____	4/1	PHYS 251	University Physics I/Lab
_____	3/1		BIOL 125	Introduction to Ecology/Lab	_____	3/1	GEOG 102	Historical Geology/Lab	_____	4/1	PHYS 252	University Physics II/Lab
_____	3/1		BIOL 126	Human Biology/Lab	_____	3/1	GEOG 105	Physical Geology/Lab	_____	2/1	PLSC 110	World Food Crops/Lab
_____	3/1		BIOL 150	General Biology I/Lab	_____	3	GIS 105	Fundamentals of GIS	_____	3/1	SCNC 101	Physical Science I/Lab (Biology & Chemistry)
_____	3/1		BIOL 151	General Biology II/Lab	_____	3	* GIS 107	GIS Applications	_____	3/1	SCNC 102	Physical Science II/Lab (Physics & Geology)
_____	3/1		BIOL 220	Anatomy and Physiology I/Lab	_____	4	MATH 103	College Algebra	_____	3/1	SCNC 103	Physical Science III/Lab (Astronomy & Meteorology)
_____	3/1		BIOL 221	Anatomy and Physiology II/Lab	_____	3	MATH 104	Finite Mathematics	_____	2/1	* SOIL 210	Introduction to Soil Science/Lab
_____	3/1		BIOL 250	Survey of Tropical Biology/Lab	_____	2	MATH 105	Trigonometry				
_____	3/1		BOT 170	Plant Form and Diversity/Lab	_____	4	MATH 107	Pre-Calculus				
_____	3	*	BUSN 120	Fundamentals of Business	_____	3	* MATH 137	Applied Algebra				
Transfer Courses				Transfer Courses				Transfer Courses				
_____				_____				_____				
_____				_____				_____				
_____				_____				_____				
_____				_____				_____				

## Academic Skills Courses (ASC)

The following Academic Skills Courses (ASC) are pre-college courses that indicate the need for college preparation work before enrollment in college level courses. These courses will not fulfill general education requirements, institutional credit requirements and cannot be included in the semester hours required for an Associate in Applied Science degree.

Gr.	Cr.			Gr.	Cr.			
_____	2		ASC 082	Effective Reading	_____	2	ASC 94	College Writing Prep I
_____	3		ASC 087	College Writing Prep	_____	2	ASC 95	College Writing Prep II
_____	1		ASC 088	Composition Lab	_____	2	ASC 96	College Writing Prep III
_____	2		ASC 91	Algebra Prep I	_____	3/1	ASC 098	Basic Biology/Lab
_____	2		ASC 92	Algebra Prep II				
_____	2		ASC 93	Algebra Prep III				

\*This advising worksheet is unofficial and to be used for class planning purposes only. Please refer to the official catalog at <http://catalog.bismarckstate.edu/> for the complete listing of college degree requirements.