

Nuclear Power Technology

Associate in Applied Science Advising Worksheet* 2017-2018

1st Semester (Fall Only) -Non-License Operator Track only				
Prescri	ibed Teo	chnical Program Requirements		
NUPT	101	Overviw of Nuclear Energy	2	
NUPT	103	Nuclear Mathematics Fundamentals	3	
NUPT	105	Classical Physics	4	
NUPT	107	Engineering Drawings, Diagrams, Schematics	3	
		Total Credits	12	

2nd S	emest	er (Spring Only) - Non-License Operator Track	
Prescri	ibed Tec	hnical Program Requirements	
NUPT	113	Mechanical Science	3
NUPT	215	Nuclear Plant Chemistry	3
NUPT	109	Electrical Science	4
NUPT	213	Nuclear Physics	3
		Total Credits	13

3rd Semester (Fall Only) - Non-License Operator Track				
Prescr	ibed Tec	hnical 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	
		Total Credits	14	

4th S	emeste	r (Spring Only) - Non-License Operator Track	
Prescr	ibed Tech	hnical 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
		Total Credits	13

Prescribed Technical Program Total	52
General Education Total	15
Total Degree Credits	67

Instrumentation & Control Track

Prescribed Technical Program Total	57
General Education Total	15
Total Degree Credits	72

1st Se	mester	(Fall Only) -I&C Track		
Prescrib	oed Techn	ical 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
			Total Credits	13

2nd Se	emester	(Spring Only) - I&C Track	
Prescrib	ed Techn	ical Program Requirements	_
NUPT	113	Mechanical Science	3
NUPT	215	Nuclear Plant Chemistry	3
NUPT	109	Electrical Science	4
NUPT	213	Nuclear Physics	3
		Total Credits	13

3rd Se	mester	(Fall Only) - I&C Track	
Prescrib	oed Techn	ical 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
		Total Credits	16

4th Se	mester	(Spring Only) - I&C Track	
Prescrit	ed Techn	nical 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
		Total Credits	15

General Education Requirements

Arts & H	umanities	/Social & Behavioral Sciences		
1.	1.			
Business,	, Math, So	tience & Technology (Two areas of study required.)		
1.			3	
2.			3	
Commun	ications I			
ENGL	110	College Composition I (Required)	3	
Commun	ications I	(Select one course.)		
ENGL	120	College Composition II		
ENGL	125	Intro to Professional Writing	3	
COMM	110	Fundamentals of Public Speaking		

Associate in Applied Science (AAS) 2017-2018 Catalog

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 6 credits in Business, Math, Science & Technology

Completed prescribed technical program requirements

-Academic Skills Courses (ASC) do not count toward graduation

Earned a minimum of 3 credits in Arts & Humanities/Social & Behavioral Sciences

	Advisor:
	Office:
	Phone:
	Email:
Earned at leas	st 15 semester hours of institutional credit from BSC
Minimum of 2	2.00 institutional GPA (BSC only)

Needed

Minimum of 2.00 cumulative GPA (BSC + Transfer)

Minimum of 2.00 GPA in a prescribed technical program

Cleared all college obligations

Legend

Declared program of study is degree seeking

(*) Course not approved as GERTA

Filed an Application for Degree in the Academic Records Office

Completed

General Education Requirements Category I: COMMUNICATIONS

Earned a minimum of 60 credits

Communications I								
(3 Credits) - ENGL 110								
Gr. Cr. 3 ENGL 110	College Composition I							
Transfer Course								

Communications II

Degree Checklist

Credits

(3 Credits) -ENGL 120, 125, COMM 110 (Select one)						
Gr. Cr.						
3	ENGL 120	College Composition II				
3	ENGL 125	Introduction to Professional Writing				
	COMM 110	Fundamentals of Public Speaking				
Transfer Course	2					

General Education Requirements Continued

Category II: ARTS & HUMANITES/SOCIAL & BEHAVIORAL SCIENCES

Completed_____

Needed_

Credits)									
ir. Cr.			Gr. Cr.			Gr. C	r.		
3	ART 110	Introduction to the Visual Arts	3	HIST 101	Western Civilization I	3	3 F	OLS 115	American Government
3	ART 122	Two-Dimensional Design	3	HIST 102	Western Civilization II	3	3 F	OLS 116	State and Local Government
3	ART 124	Three-Dimensional Design	3	HIST 103	United States to 1877	3	3 F	OLS 220	International Politics
3	ART 130	Drawing I	3	HIST 104	United States since 1877	3	3 F	PSYC 111	Introduction to Psychology
3	ART 210	Art History I	3	HIST 211	World Civilizations to 1500	3	3 * F	SYC 211	Introduction to Behavior Modification
3	ART 211	Art History II	3	HIST 212	World Civilizations since 1500	3	3 F	SYC 250	Developmental Psychology
3	ART 220	Painting I	3	HIST 220	North Dakota History	3	3 * F	SYC 261	Psychology of Adjustment
3	ART 221	Painting II	3	HIST 222	History of the Western Frontier	3	3 F	SYC 270	Abnormal Psychology
3	ART 230	Drawing II	3	HIST 224	American Studies I	3	3 F	RELS 120	Religion in America
3	ART 250	Ceramics I	3	HIST 225	American Studies II	3	3 F	RELS 201	Life and Letters of Paul
3	ART 251	Ceramics II	1-3	* HIST 243	Historical Investigations	3	3 F	RELS 203	World Religions
2	ART 265	Sculpture I	3	HUMS 210	Integrated Cultural Studies	3	3 F	RELS 220	Old Testament
2	ART 266	Sculpture II	1-4	HUMS 211	Integrated Cultural Excursion	3	3 F	RELS 230	New Testament
3	CJ 201	Introduction to Criminal Justice	2	HUMS 212	Integrated Cultural Enrichment	3	3 S	OC 110	Introduction to Sociology
3	COMM 112	Understanding Media and Social Change	3	MUSC 100	Music Appreciation	3	3 S	OC 115	Social Problems
3	COMM 211	Oral Interpretation	1	MUSC 117	Concert Choir	3	3 S	OC 220	Family
3	COMM 212	Interpersonal Communications	1	MUSC 118	Chamber Choir	3	3 S	OC 221	Minority Relations
3	ECON 105	Elements of Economics	1	MUSC 121	String Ensemble	3	3 S	OC 235	Cultural Diversity
3	ECON 201	Principles of Microeconomics	1	MUSC 132	Wind Ensemble	3	3 S	OC 251	Gerontology
3	ECON 202	Principles of Macroeconomics	1	MUSC 133	Woodwind Ensemble I	3	3 S	OC 252	Criminology
3	ENGL 211	Introduction to Creative Writing	1	MUSC 134	Woodwind Ensemble II	3	3 S	OC 275	American Indian Studies
3	ENGL 221	Introduction to Drama	1	MUSC 135	Brass Ensemble I	4	4 S	PAN 101	First Year Spanish I
3	ENGL 222	Introduction to Poetry	1	MUSC 136	Brass Ensemble II		4 S	PAN 102	First Year Spanish II
3	ENGL 233	Fantasy and Science Fiction	1	MUSC 137	Jazz Ensemble		4 S	PAN 201	Second Year Spanish I
3	ENGL 236	Women and Literature	1	* MUSC 138	Percussion Ensemble	4	4 S	5PAN 202	Second Year Spanish II
3	ENGL 238	Children's Literature	1	MUSC 145	Applied Music	3	3 S	SWK 256	Development of Social Welfare
3	ENGL 251	British Literature I	1	MUSC 146	Applied Music - Major	3	3 Т	HEA 110	Introduction to Theatre Arts
3	ENGL 252	British Literature II	3	PHIL 101	Introduction to Philosophy	3	3 Т	HEA 161	Acting I
3	ENGL 261	American Literature I	3	PHIL 210	Ethics	3	3 Т	HEA 261	Acting II
3	ENGL 262	American Literature II	3	PHIL 220	Introduction to Logic				-
3	ENGL 278	Alternative Literature	3	PHIL 250	Philosophy in Cinema				
3	GEOG 161	World Regional Geography	3	PHIL 253	Environmental Ethics				

Transfer Courses

Transfer Courses

Transfer Courses

General Education Requirements Continued

Category III: BUSINESS, MATH, SCIENCE & TECHNOLOGY

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

. 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	GEOL 102	Historical Geology/Lab	4/1	PHYS 252	University Physics II/Lab
3/1	BIOL 126	Human Biology/Lab	3/1	GEOL 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
3/1	BIOL 151	General Biology II/Lab	3 *	* GIS 107	GIS Applications			(Biology & Chemistry)
3/1	BIOL 220	Anatomy and Physiology I/Lab	4	MATH 103	College Algebra	3/1	SCNC 102	Physical Science II/Lab
3/1	BIOL 221	Anatomy and Physiology II/Lab	3	MATH 104	Finite Mathematics			(Physics & Geology)
3/1	BIOL 250	Survey of Tropical Biology/Lab	2	MATH 105	Trigonometry	3/1	SCNC 103	Physical Science III/Lab
3/1	BOT 170	Plant Form and Diversity/Lab	4	MATH 107	Pre-Calculus			(Astronomy & Meteorology)
3 *	* BUSN 120	Fundamentals of Business	3 *	* MATH 137	Applied Algebra	2/1 *	SOIL 210	Introduction to Soil Science/Lab
ransfer Courses			Transfer Cours	ses		Transfer Cou	rses	
						. . <u></u>		

Completed_

Needed

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.