Power Plant Technology

Associate in Applied Science

Advising Worksheet* 2017-2018

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

Semester I

Prescribed Technical Program Requirements

ENRT	101	Introduction to Energy Technology	4
ENRT	105	Safety, Health & Environment	3
ENRT	107	Mechanical Fundamentals	2
ENRT	110	Plant Equipment & Systems	4
		Total Credits	**13**

Semester II

Prescribed Technical Program Requirements

ENRT	112	Print Reading	3
ENRT	103	Applied Math	3
ENRT	104	Electrical Fundamentals	3
ENRT	116	Instrumentation & Control	4
		Total Credits	**13**

Semester III

Prescribed Technical Program Requirements

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 Credits	**12**

Semester IV

Prescribed Technical Program Requirements

PWRP	203	Energy Sources & Conversions	3
PWRP	207	Boilers & Environmental Protection	3
PWRP	210	Turbines & Combined Cycle	3
PWRP	224	Power Generation Components & Protection	3
ENRT	220	Practical Applications	2
		Total Credits	**14**

General Education Requirements

Arts & Humanities/Social & Behavioral Sciences

1.			3

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

1.			3
2.			3

Communications I

ENGL	110	College Composition I (Required)	3

Communications II (Select one course.)

ENGL	120	College Composition II	
ENGL	125	Introduction to Professional Writing	3
COMM	110	Fundamentals of Public Speaking	
		Total Credits	**15**

* The 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 the degree requirements.

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.		
_____	3	ENGL 110	College Composition I

Transfer Course _____

Communications II

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

Gr.	Cr.		
_____	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 & HUMANITES/SOCIAL & BEHAVIORAL SCIENCES **Completed_____ Needed_____**

(3 Credits)

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

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

Gr.	Cr.			
	3	*	ACCT 200	Elements of Accounting I
	3	*	ACCT 201	Elements of Accounting II
	3/1		ASTR 150	Meteorology/Lab
	3	*	BADM 202	Principles of Management
	3	*	BADM 210	Advertising I
	3	*	BADM 240	Sales
	3	*	BADM 281	Organizational Behavior
	3	*	BADM 282	Human Resource Management
	1	*	BIOL 102	Introduction to Aquarium Keeping
	3		BIOL 109	The Living World
	3/1		BIOL 111	Concepts of Biology/Lab
	3/1		BIOL 115	Human Structure and Function/Lab
	3		BIOL 124	Environmental Science
	3/1		BIOL 125	Introduction to Ecology/Lab
	3/1		BIOL 126	Human Biology/Lab
	3/1		BIOL 150	General Biology I/Lab
	3/1		BIOL 151	General Biology II/Lab
	3/1		BIOL 220	Anatomy and Physiology I/Lab
	3/1		BIOL 221	Anatomy and Physiology II/Lab
	3/1		BIOL 250	Survey of Tropical Biology/Lab
	3/1		BOT 170	Plant Form and Diversity/Lab
	3	*	BUSN 120	Fundamentals of Business

Gr.	Cr.			
	3/1		CHEM 110	Survey of Chemistry/Lab
	3/1		CHEM 112	Introduction to Forensic Science/Lab
	3/1		CHEM 114	Chemistry in Art/Lab
	4/1		CHEM 115	Introductory Chemistry/Lab
	4/1		CHEM 116	Intro to Organic and Biochemistry/Lab
	4/1		CHEM 121	General Chemistry I/Lab
	4/1		CHEM 122	General Chemistry II/Lab
	4	*	CIS 164	Networking Fundamentals I
	3		CSCI 101	Introduction to Computers
	3		CSCI 122	Beginning Visual Basic
	4		CSCI 160	Computer Science I
	4		CSCI 161	Computer Science II
	3/1		GEOG 121	Physical Geography/Lab
	3/1		GEOL 102	Historical Geology/Lab
	3/1		GEOL 105	Physical Geology/Lab
	3		GIS 105	Fundamentals of GIS
	3	*	GIS 107	GIS Applications
	4		MATH 103	College Algebra
	3		MATH 104	Finite Mathematics
	2		MATH 105	Trigonometry
	4		MATH 107	Pre-Calculus
	3	*	MATH 137	Applied Algebra

Gr.	Cr.			
	3		MATH 146	Applied Calculus I
	4		MATH 165	Calculus I
	4		MATH 166	Calculus II
	3	*	MATH 208	Discrete Mathematics
	3		MATH 210	Elementary Statistics
	4	*	MATH 277	Math for Elementary Teachers I
	3/1		MICR 202	Introductory Microbiology/Lab
	3	*	NUTR 240	Principles of Nutrition
	3/1		PHYS 100	Concepts of Physics/Lab
	3/1		PHYS 110	Introductory Astronomy/Lab
	3/1		PHYS 211	College Physics I/Lab
	3/1		PHYS 212	College Physics II/Lab
	4/1		PHYS 251	University Physics I/Lab
	4/1		PHYS 252	University Physics II/Lab
	2/1		PLSC 110	World Food Crops/Lab
	3/1		SCNC 101	Physical Science I/Lab (Biology & Chemistry)
	3/1		SCNC 102	Physical Science II/Lab (Physics & Geology)
	3/1		SCNC 103	Physical Science III/Lab (Astronomy & Meteorology)
	2/1	*	SOIL 210	Introduction to Soil Science/Lab

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.		
	2	ASC 082	Effective Reading
	3	ASC 087	College Writing Prep
	1	ASC 088	Composition Lab
	2	ASC 91	Algebra Prep I
	2	ASC 92	Algebra Prep II
	2	ASC 93	Algebra Prep III

Gr.	Cr.		
	2	ASC 94	College Writing Prep I
	2	ASC 95	College Writing Prep II
	2	ASC 96	College Writing Prep III
	3/1	ASC 098	Basic Biology/Lab

*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.