Power Plant Technology

Associate in Applied Science

Advising Worksheet* 2018-2019

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)
2018-2019 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 [1]

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

_____ Earned a minimum of 6 credits in Business, Math, Science & Technology [2]

_____ 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

Specific programs may require additional degree/program requirements; refer to your program.

[1] Programs may have a specific Communications II requirement; refer to your program degree plan.

[2] Must be from any two areas of study. For example, a Biology course and a Math course, but not two Biology courses or two Math courses.

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.			
	3		ANTH 170	Physical Anthropology and Archeology
	3		ART 110	Introduction to the Visual Arts
	3		ART 122	Two-Dimensional Design
	3		ART 124	Three-Dimensional Design
	3		ART 130	Drawing I
	3		ART 210	Art History I
	3		ART 211	Art History II
	3		ART 220	Painting I
	3		ART 221	Painting II
	3		ART 230	Drawing II
	3		ART 250	Ceramics I
	3		ART 251	Ceramics II
	2		ART 265	Sculpture I
	2		ART 266	Sculpture II
	3	*	CIS 280	Cyber Ethics
	3		CJ 201	Introduction to Criminal Justice
	3		COMM 112	Understanding Media and Social Change
	3		COMM 211	Oral Interpretation
	3		COMM 212	Interpersonal Communications
	3		ECON 105	Elements of Economics
	3		ECON 201	Principles of Microeconomics
	3		ECON 202	Principles of Macroeconomics
	3		ENGL 211	Introduction to Creative Writing
	3		ENGL 221	Introduction to Drama
	3		ENGL 222	Introduction to Poetry
	3		ENGL 233	Fantasy and Science Fiction
	3		ENGL 236	Women and Literature
	3		ENGL 238	Children's Literature
	3		ENGL 251	British Literature I
	3		ENGL 252	British Literature II
	3		ENGL 261	American Literature I
	3		ENGL 262	American Literature II
	3		ENGL 278	Alternative Literature
	3		GEOG 161	World Regional Geography

Gr.	Cr.			
	3		HIST 101	Western Civilization I
	3		HIST 102	Western Civilization II
	3		HIST 103	United States to 1877
	3		HIST 104	United States Since 1877
	3		HIST 211	World Civilizations to 1500
	3		HIST 212	World Civilizations since 1500
	3		HIST 220	North Dakota History
	3		HIST 222	History of the Western Frontier
	3		HIST 224	American Studies I
	3		HIST 225	American Studies II
	1-3	*	HIST 243	Historical Investigations
	3		HUMS 210	Integrated Cultural Studies
	1-4		HUMS 211	Integrated Cultural Excursion
	2		HUMS 212	Integrated Cultural Enrichment
	3		MUSC 100	Music Appreciation
	1		MUSC 117	Concert Choir
	1		MUSC 118	Chamber Choir
	1		MUSC 121	String Ensemble
	1		MUSC 132	Wind Ensemble
	1		MUSC 133	Woodwind Ensemble I
	1		MUSC 134	Woodwind Ensemble II
	1		MUSC 135	Brass Ensemble I
	1		MUSC 136	Brass Ensemble II
	1		MUSC 137	Jazz Ensemble
	1	*	MUSC 138	Percussion Ensemble
	1		MUSC 145	Applied Music
	1		MUSC 146	Applied Music - Major
	3		PHIL 101	Introduction to Philosophy
	3		PHIL 210	Ethics
	3		PHIL 220	Introduction to Logic
	3		PHIL 250	Philosophy in Cinema
	3		PHIL 253	Environmental Ethics

Gr.	Cr.			
	3		POLS 115	American Government
	3		POLS 116	State and Local Government
	3		POLS 220	International Politics
	3		PSYC 111	Introduction to Psychology
	3	*	PSYC 211	Introduction to Behavior Modification
	3		PSYC 250	Developmental Psychology
	3	*	PSYC 261	Psychology of Adjustment
	3		PSYC 270	Abnormal Psychology
	3		RELS 120	Religion in America
	3		RELS 201	Life and Letters of Paul
	3		RELS 203	World Religions
	3		RELS 220	Old Testament
	3		RELS 230	New Testament
	3		SOC 110	Introduction to Sociology
	3		SOC 115	Social Problems
	3		SOC 220	Family
	3		SOC 221	Minority Relations
	3		SOC 235	Cultural Diversity
	3		SOC 251	Gerontology
	3		SOC 252	Criminology
	3		SOC 275	American Indian Studies
	4		SPAN 101	First Year Spanish I
	4		SPAN 102	First Year Spanish II
	4		SPAN 201	Second Year Spanish I
	4		SPAN 202	Second Year Spanish II
	3		SWK 256	Development of Social Welfare
	3		THEA 110	Introduction to Theatre Arts
	3		THEA 161	Acting I
	3		THEA 180	Dramatic Literature and Style I
	3		THEA 181	Dramatic Literature and Style II
	3		THEA 261	Acting II

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
	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
	3	*	CIS 147	Principles of Information Security
	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
	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	Mathematics 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
	4/1		PHYS 211	College Physics I/Lab
	4/1		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
	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

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