



Power Generation Technology

Associate in Applied Science

Advising Worksheet* 2022-2023

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

Semester I	Completed
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Prescribed Technical Program Requirements			
ENRT	101	Introduction to Energy Technology	3
ENRT	105	Safety, Health & Environment	3
ENRT	107	Mechanical Fundamentals	3
ENRT	110	Plant Equipment & Systems	4
Total Credits			13

Semester II	Completed
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Prescribed Technical Program Requirements			
ENRT	112	Print Reading	3
ENRT	104	Electrical Fundamentals	3
ENRT	116	Instrumentation & Control	4
ENRT	224	Automation & Control	3
Total Credits			13

Semester III	Completed
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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	Oper., Troubleshooting & Communications	3
Total Credits			12

Semester IV	Completed
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Prescribed Technical Program Requirements			
PWRP	207	Boilers & Environmental Protection	3
ENRT	221	Applied Electronics	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	Completed
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Arts & Humanities/Social & Behavioral Sciences			
1.		3	
Business, Math, Science & Technology (Two areas of study required.)			
1.	MATH 137 Applied Algebra or higher (Required)	3	
2.		3	
Communications I			
ENGL	110 College Composition I (Required)	3	
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

*Unofficial advising worksheet used for planning purposes only

Associate in Applied Science (AAS)

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, 125 or COMM 110
- _____ Earned a minimum of 3 credits in Arts & Humanities/Social & B. Science
- _____ Earned a minimum of 6 credits in Business, Math, Science & Technology
- _____ Earned prescribed technical program requirements

Earned a minimum of 60 total credits
-Academic Skills Courses (ASC) do not apply toward graduation.

- Earned a minimum of 15 institutional credit (BSC only)
- Earned a minimum 2.00 institutional GPA (BSC only)
- Earned a minimum 2.00 cumulative GPA (BSC + Transfer)
- Earned a minimum 2.00 GPA in a prescribed technical program
- Cleared all college obligations
- Declared program of study is Degree-seeking
- Filed an Application for Degree

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

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.			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	Intro 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 & 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 Mgmt	___	4	* CIS 164	Networking Fundamentals	___	3	* NUTR 240	Principles of Nutrition
___	1	*	BIOL 102	Intro to Aquarium Keeping	___	3	CSCI 101	Intro to Computers	___	3/1	PHYS 100	Concepts of Physics/Lab
___	3		BIOL 109	Living World	___	3	CSCI 122	Beginning Visual Basic	___	3/1	PHYS 110	Intro to 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 & 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 126	Human Biology/Lab	___	3/1	GEOG 102	Historical Geology/Lab	___	4/1	PHYS 252	University Physics II/Lab
___	3/1		BIOL 150	General Biology I/Lab	___	3/1	GEOG 105	Physical Geology/Lab	___	2/1	PLSC 110	World Food Crops/Lab
___	3/1		BIOL 151	General Biology II/Lab	___	3	GIS 105	Fundamentals of GIS	___	3/1	SCNC 101	Physical Science I/Lab
___	3/1		BIOL 220	Anatomy & Physiology I/Lab	___	3	* GIS 107	GIS Applications	___			Biology & Chemistry
___	3/1		BIOL 221	Anatomy & Physiology II/Lab	___	4	MATH 103	College Algebra	___	3/1	SCNC 102	Physical Science II/Lab
___	3/1		BIOL 250	Survey-Tropical Biology/Lab	___	3	MATH 104	Finite Math	___			Physics & Geology
___	3/1		BIOL 251	Community Ecology/Lab	___	2	MATH 105	Trigonometry	___	3/1	SCNC 103	Physical Science III/Lab
___	3/1		BOT 170	Plant Form & Diversity/Lab	___	4	MATH 107	Pre-Calculus	___			Astronomy & Meteorology
___	3	*	BUSN 120	Fundamentals of Business	___	3	* MATH 137	Applied Algebra	___	2/1	* SOIL 210	Intro to Soil Science/Lab

Transfer Courses

Transfer Courses

Transfer Courses

Academic Skills Courses (ASC)

The following Academic Skills Courses (ASC), as well as Math 102, are pre-college courses indicate the need for college preparation work before enrollment in college level courses. These courses will not carry honor points or earned credit and will not count toward the student's degree program.

Gr.	Cr.			Gr.	Cr.			
___	2		ASC 082	Effective Reading	___	2	ASC 92	Algebra Prep II
___	3		ASC 087	College Writing Prep	___	2	ASC 93	Algebra Prep III
___	1		ASC 088	Composition Lab	___	3/1	ASC 098	Basic Biology/Lab
___	2		ASC 91	Algebra Prep I	___	3	Math 102	Intermediate Algebra

Math 102 was offered for the last time at BSC in Spring 2012.