



Power Generation Technology

Associate in Applied Science

Advising Worksheet* 2020-2021

Prescribed Technical Program Total	52
<u>General Education Total</u>	<u>15</u>
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	Intro to the Visual Art	_____	3	HIST 101	Western Civilization I	_____	3	POLS 116	State & Local Government
_____	3	ART 122	Two Dimensional Design	_____	3	HIST 102	Western Civilization II	_____	3	POLS 220	International Politics
_____	3	ART 124	Three Dimensional Design	_____	3	HIST 103	United States to 1877	_____	3	PSYC 111	Intro to Psychology
_____	3	ART 130	Drawing I	_____	3	HIST 104	United States since 1877	_____	3	* PSYC 211	Intro to Behavior Modification
_____	3	ART 210	Art History I	_____	3	HIST 220	North Dakota History	_____	3	PSYC 250	Developmental Psychology
_____	3	ART 211	Art History II	_____	3	HIST 222	History of the Western Frontier	_____	3	PSYC 270	Abnormal Psychology
_____	3	ART 220	Painting I	_____	3	HIST 224	American Studies I	_____	3	RELS 120	Religion in America
_____	3	ART 221	Painting II	_____	3	HIST 225	American Studies II	_____	3	RELS 201	Life & Letters of Paul
_____	3	ART 230	Drawing II	_____	1-3	* HIST 243	Historical Investigations	_____	3	RELS 203	World Religions
_____	3	ART 250	Ceramics I	_____	3	HUMS 210	Integrated Cultural Studies	_____	3	RELS 220	Old Testament
_____	3	ART 251	Ceramics II	_____	1-4	HUMS 211	Integrated Cultural Excursion	_____	3	RELS 230	New Testament
_____	2	ART 265	Sculpture I	_____	2	HUMS 212	Integrated Cultural Enrichment	_____	3	SOC 110	Intro to Sociology
_____	2	ART 266	Sculpture II	_____	3	MUSC 100	Music Appreciation	_____	3	SOC 115	Social Problems
_____	3	CJ 201	Intro to Criminal Justice	_____	1	MUSC 117	Concert Choir	_____	3	SOC 220	Family
_____	3	COMM 211	Oral Interpretation	_____	1	MUSC 118	Chamber Choir	_____	3	SOC 221	Minority Relations
_____	3	* COMM 212	Interpersonal Communications	_____	1	MUSC 121	String Ensemble	_____	3	SOC 235	Cultural Diversity
_____	3	ECON 105	Elements of Economics	_____	1	MUSC 132	Wind Ensemble	_____	3	SOC 251	Gerontology
_____	3	ECON 201	Principles of Microeconomics	_____	1	MUSC 133	Woodwind Ensemble I	_____	3	SOC 252	Criminology
_____	3	ECON 202	Principles of Macroeconomics	_____	1	MUSC 134	Woodwind Ensemble II	_____	3	SOC 275	American Indian Studies
_____	3	ENGL 211	Intro to Creative Writing	_____	1	MUSC 135	Brass Ensemble I	_____	4	SPAN 101	First Year Spanish I
_____	3	ENGL 221	Intro to Drama	_____	1	MUSC 136	Brass Ensemble II	_____	4	SPAN 102	First Year Spanish II
_____	3	ENGL 222	Intro to Poetry	_____	1	MUSC 137	Jazz Ensemble	_____	4	SPAN 201	Second Year Spanish I
_____	3	ENGL 233	Fantasy & Science Fiction	_____	1	* MUSC 138	Percussion Ensemble	_____	4	SPAN 202	Second Year Spanish II
_____	3	ENGL 236	Women & Literature	_____	1	MUSC 145	Applied Music	_____	3	SWK 256	Development of Social Welfare
_____	3	ENGL 238	Children's Literature	_____	1	MUSC 146	Applied Music - Major	_____	3	THEA 110	Intro to Theatre Arts
_____	3	ENGL 251	British Literature I	_____	3	PHIL 101	Intro to Philosophy	_____	3	THEA 161	Acting I
_____	3	ENGL 252	British Literature II	_____	3	PHIL 210	Ethics	_____	3	THEA 261	Acting II
_____	3	ENGL 261	American Literature I	_____	3	PHIL 220	Intro to Logic				
_____	3	ENGL 262	American Literature II	_____	3	PHIL 250	Philosophy in Cinema				
_____	3	ENGL 278	Alternative Literature	_____	3	POLS 115	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	GEOL 102	Historical Geology/Lab		4/1	PHYS 252	University Physics II/Lab
	3/1		BIOL 150	General Biology I/Lab		3/1	GEOL 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.