



Energy Services & Renewable Technician
 Associate in Applied Science
 Advising Worksheet* 2019-2020

Prescribed Technical Program Total	54
General Education Total	16
Total Degree Credits	70

Semester I offered fall semesters **Completed**

Prescribed Technical Program Requirements			
ESRE	210	Electrical & Safe Work Practices	3
ESRE	216	Mechanical Drive Systems	4
ESRE	213	Hydraulic Fundamentals	3
ESRE	218	Solar & Distributed Grid Systems	4
Total Credits			14

Semester II offered spring semesters **Completed**

Prescribed Technical Program Requirements			
ESRE	224	Automation & Control	3
ESRE	221	Applied Electronics	3
ESRE	226	Commercial Wind Systems	3
ESRE	228	Energy Technician Applications & Troubleshooting	5
Total Credits			14

Semester III **Completed**

Prescribed Technical Program Requirements			
ENRT	122	Industrial Composition and Communication	4
ENRT	105	Safety, Health & Environment	3
ENRT	107	Mechanical Fundamentals	2
ENRT	110	Plant Equipment & Systems	4
Total Credits			13

Semester IV **Completed**

Prescribed Technical Program Requirements			
ENRT	112	Print Reading	3
ENRT	103	Applied Math	3
PWRP	224	Power Generation Components & Protection	3
ENRT	116	Instrumentation & Control	4
Total Credits			13

General Education Requirements **Completed**

Arts & Humanities/Social & Behavioral Sciences			
1.			3
Business, Math, Science & Technology (Two areas of study)			
1.	CIS 164 Networking Fundamentals (Required)		4
2.			3
Communications I			
ENGL	110	College Composition I (Required)	3
Communications II (Select one course.)			
ENGL	120	College Composition II (Prerequisite: ENGL 110)	
ENGL	125	Intro to Professional Writing (Prerequisite: ENGL 110)	3
COMM	110	Fundamentals of Public Speaking	
Total Credits			16

* 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.

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	3/1		CHEM 110	3		MATH 146
3	*	ACCT 201	3/1		CHEM 112	4		MATH 165
3/1		ASTR 150	3/1		CHEM 114	4		MATH 166
3	*	BADM 202	4/1		CHEM 115	3	*	MATH 208
3	*	BADM 210	4/1		CHEM 116	3		MATH 210
3	*	BADM 240	4/1		CHEM 121	4	*	MATH 277
3	*	BADM 281	4/1		CHEM 122	3/1		MICR 202
3	*	BADM 282	3	*	CIS 147	3	*	NUTR 240
1	*	BIOL 102	4	*	CIS 164	3/1		PHYS 100
3		BIOL 109	3		CSCI 101	3/1		PHYS 110
3/1		BIOL 111	3		CSCI 122	4/1		PHYS 211
3/1		BIOL 115	4		CSCI 160	4/1		PHYS 212
3		BIOL 124	4		CSCI 161	4/1		PHYS 251
3/1		BIOL 125	3/1		GEOG 121	4/1		PHYS 252
3/1		BIOL 126	3/1		GEOG 102	2/1		PLSC 110
3/1		BIOL 150	3/1		GEOG 105	3/1		SCNC 101
3/1		BIOL 151	3		GIS 105			(Biology & Chemistry)
3/1		BIOL 170	3	*	GIS 107	3/1		SCNC 102
3/1		BIOL 220	4		MATH 103			(Physics & Geology)
3/1		BIOL 221	3		MATH 104	3/1		SCNC 103
3/1		BIOL 250	2		MATH 105			Physical Science III/Lab
3/1		BOT 170	4		MATH 107			(Astronomy & Meteorology)
3	*	BUSN 120	3	*	MATH 137	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.		Gr.	Cr.	
2		ASC 082	2		ASC 94
2		ASC 91	2		ASC 95
2		ASC 92	2		ASC 96
2		ASC 93	3/1		ASC 098

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