



Electric Power Technology
 Associate in Applied Science
 Advising Worksheet * 2019-2020

Prescribed Technical Program Total	53
General Education Total	15
Total Degree Credits	68

Semester I	Notes
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Prescribed Technical Program Requirements			
ELPW	111	Introduction to the Electrical Industry & Power Grid	3
ENRT	106	DC Fundamentals	2
ENRT	108	AC Fundamentals	3
ELPW	114	Industrial Safety and Health	3
ENRT	117	Technical Communication	3
Total Credits			14

Semester II	Notes
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Prescribed Technical Program Requirements			
ELPW	105	Electrical System Fundamentals	3
ELPW	112	Electrical System Components	3
ELPW	120	Industrial Prints and Diagrams	4
ESRE	221	Applied Electronics	3
Total Credits			13

Semester III	Notes
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Prescribed Technical Program Requirements			
ESRE	224	Automation and Control	3
ENRT	230	SCADA	3
ELPW	204	Advanced Electrical Systems	4
ELPW	206	Electrical System Protection	4
Total Credits			14

Semester IV - Choose specialization track or any 12 credits	Notes
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Prescribed Technical Program Requirements			
1. Line Construction Specialization - offered fall semesters			
ELPW	250	Transformers	4
ELPW	230	Underground Line Construction	4
ELPW	210	Overhead Transmission & Distribution Line Construction	4
2. Substation Specialization - offered spring semesters			
ELPW	251	Substation Construction & Maintenance	4
ELPW	211	Substation Relays	4
ELPW	231	Substation Operations	4
3. System Design Specialization - offered spring semesters			
ELPW	208	Advanced Math	4
ELPW	240	Electrical System Design	4
ELPW	252	Civil Design	4
4. Metering Specialization - offered fall semesters			
ELPW	208	Advanced Math	4
ELPW	213	Fundamentals of Metering	3
ELPW	233	Single-Phase & Polyphase Metering	3
ELPW	253	Advanced Metering Technology	2
Total Credits			12

General Education Requirements	Notes
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Arts & Humanities/Social & Behavioral Sciences	
1.	3
Business, Math, Science & Technology (Two areas of study required)	
MATH 137	Applied Algebra or higher (required)
2. Recommend CIS 164 - Computer Networking	3
Communications I	
ENGL 110	College Composition I (Required)
Communications II (Select one course.)	
ENGL 120	College Composition II (Prerequisite: ENGL 110)
ENGL 125	Intro to Professional Writing (Prerequisite: ENGL 110)
COMM 110	Fundamentals of Public Speaking
Total Credits	
	15

*Unofficial advising worksheet used for planning purposes only

* 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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