



Electric Power Technology
 Associate in Applied Science
 Advising Worksheet * 2024-2025

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
ENRT	221	Applied Electronics	3
Total Credits			13

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

*Unofficial advising worksheet used for planning purposes only

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	Electric Distribution Systems	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)			
1.		Math course recommended	
2.		*Digital Literacy course recommended	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			15

Digital Literacy Requirement			
CSCI	101	Introduction to Computers*	
CIS	147	Principles of Information Technology*	3

*Courses approved to meet Digital Literacy Requirement of all degrees

*Course listed as both General Education and Digital Literacy may satisfy both requirements.

* 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.