



Electric Power Technology
 Associate in Applied Science
 Advising Worksheet * 2022-2023

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

Semester I	Notes
------------	-------

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
-------------	-------

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
--------------	-------

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

Semester IV - Choose specialization track or any 12 credits	Notes
---	-------

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
--------------------------------	-------

Arts & Humanities/Social & Behavioral Sciences	
1.	3
Business, Math, Science & Technology (Two areas of study required)	
MATH 137	Applied Algebra or higher (required)
2.	CIS 164 Networking Fundamentals I (Recommended, not required) 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	

*Unofficial advising worksheet used for planning purposes only

Associate in Applied Science (AAS) 2019-2020 Catalog

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, ENGL 125 or COMM 110 ¹
- _____ Earned a minimum of 3 credits in Arts & Humanities/Social & Behavioral Sciences ¹
- _____ Earned a minimum of 6 credits in Business, Math, Science & Technology ²
- _____ Completed prescribed technical program requirements

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

- Earned at least 15 semester hours of institutional credit from BSC
- Minimum of 2.00 institutional GPA (BSC only)
- Minimum of 2.00 cumulative GPA (BSC + Transfer)
- Minimum of 2.00 GPA in a prescribed technical program
- Cleared all college obligations
- Satisfied all degree seeking admission requirements
- Filed an Application for Degree in the Academic Records Office immediately following enrollment in final semester

Specific programs may require additional degree/program requirements; refer to your program.

¹ Programs may have specific General Education requirements; refer to your program degree plan.

² Must be from any two areas of study. For example, a Biology course and a Math course, but not two Biology courses or two Math courses.

Legend
 (*) Course not approved as GERTA

General Education Requirements

Category I: COMMUNICATIONS Completed _____ Needed _____

Communications I

(3 Credits) - ENGL 110

Gr.	Cr.	Course	Description
_____	3	ENGL 110	College Composition I

Transfer Course

Communications II

(3 Credits) - ENGL 120, ENGL 125, COMM 110 (Select one)

Gr.	Cr.	Course	Description
_____	3	ENGL 120	College Composition II
_____	3	ENGL 125	Introduction to Professional Writing
_____	3	COMM 110	Fundamentals 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	ANTH 170	_____	3	HIST 101	_____	3	POLS 115
_____	3	ANTH 171	_____	3	HIST 102	_____	3	POLS 116
_____	3	ART 110	_____	3	HIST 103	_____	3	POLS 220
_____	3	ART 122	_____	3	HIST 104	_____	3	PSYC 100
_____	3	ART 124	_____	3	HIST 211	_____	3	PSYC 111
_____	3	ART 130	_____	3	HIST 212	_____	3	* PSYC 211
_____	3	ART 210	_____	3	HIST 220	_____	3	PSYC 250
_____	3	ART 211	_____	3	HIST 222	_____	3	* PSYC 261
_____	3	ART 220	_____	3	HIST 224	_____	3	PSYC 270
_____	3	ART 221	_____	3	HIST 225	_____	3	RELS 120
_____	3	ART 230	_____	1-3	* HIST 243	_____	3	RELS 201
_____	3	ART 250	_____	3	HUMS 210	_____	3	RELS 203
_____	3	ART 251	_____	1-4	HUMS 211	_____	3	RELS 220
_____	2	ART 265	_____	2	HUMS 212	_____	3	RELS 230
_____	2	ART 266	_____	3	MUSC 100	_____	3	SOC 110
_____	3	* CIS 280	_____	1	MUSC 117	_____	3	SOC 115
_____	3	CJ 201	_____	1	MUSC 118	_____	3	SOC 220
_____	3	COMM 112	_____	1	MUSC 121	_____	3	SOC 221
_____	3	COMM 211	_____	1	MUSC 132	_____	3	SOC 235
_____	3	COMM 212	_____	1	MUSC 133	_____	3	SOC 251
_____	3	ECON 105	_____	1	MUSC 134	_____	3	SOC 252
_____	3	ECON 201	_____	1	MUSC 135	_____	3	SOC 275
_____	3	ECON 202	_____	1	MUSC 136	_____	4	SPAN 101
_____	3	ENGL 211	_____	1	MUSC 137	_____	4	SPAN 102
_____	3	ENGL 221	_____	1	* MUSC 138	_____	4	SPAN 201
_____	3	ENGL 222	_____	1	MUSC 145	_____	4	SPAN 202
_____	3	ENGL 233	_____	1	MUSC 146	_____	3	SWK 256
_____	3	ENGL 236	_____	3	PHIL 101	_____	3	THEA 110
_____	3	ENGL 238	_____	3	PHIL 110	_____	3	THEA 161
_____	3	ENGL 251	_____	3	PHIL 220	_____	3	THEA 180
_____	3	ENGL 252	_____	3	PHIL 250	_____	3	THEA 181
_____	3	ENGL 261	_____	3	PHIL 253	_____	3	THEA 261
_____	3	ENGL 262						
_____	3	ENGL 278						
_____	3	GEOG 161						

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	Survey of Chemistry/Lab	3	MATH 146	Applied Calculus I
3	*	ACCT 201	3/1	CHEM 112	Introduction to Forensic Science/Lab	4	MATH 165	Calculus I
3/1		ASTR 150	3/1	CHEM 114	Chemistry in Art/Lab	4	MATH 166	Calculus II
3	*	BADM 202	4/1	CHEM 115	Introductory Chemistry/Lab	3	* MATH 208	Discrete Mathematics
3	*	BADM 210	4/1	CHEM 116	Intro to Organic and Biochemistry/Lab	3	MATH 210	Elementary Statistics
3	*	BADM 240	4/1	CHEM 121	General Chemistry I/Lab	4	* MATH 277	Mathematics for Elementary Teachers I
3	*	BADM 281	4/1	CHEM 122	General Chemistry II/Lab	3/1	MICR 202	Introductory Microbiology/Lab
3	*	BADM 282	3	* CIS 147	Principles of Information Security	3	* NUTR 240	Principles of Nutrition
1	*	BIOL 102	4	* CIS 164	Networking Fundamentals I	3/1	PHYS 100	Concepts of Physics/Lab
3		BIOL 109	3	CSCI 101	Introduction to Computers	3/1	PHYS 110	Introductory Astronomy/Lab
3/1		BIOL 111	3	CSCI 122	Beginning Visual Basic	4/1	PHYS 211	College Physics I/Lab
3/1		BIOL 115	4	CSCI 160	Computer Science I	4/1	PHYS 212	College Physics II/Lab
3		BIOL 124	4	CSCI 161	Computer Science II	4/1	PHYS 251	University Physics I/Lab
3/1		BIOL 125	3/1	GEOG 121	Physical Geography/Lab	4/1	PHYS 252	University Physics II/Lab
3/1		BIOL 126	3/1	GEOG 102	Historical Geology/Lab	2/1	PLSC 110	World Food Crops/Lab
3/1		BIOL 150	3/1	GEOG 105	Physical Geology/Lab	3/1	SCNC 101	Physical Science I/Lab (Biology & Chemistry)
3/1		BIOL 151	3	GIS 105	Fundamentals of GIS			
3/1		BIOL 170	3	* GIS 107	GIS Applications	3/1	SCNC 102	Physical Science II/Lab (Physics & Geology)
3/1		BIOL 220	4	MATH 103	College Algebra			
3/1		BIOL 221	3	MATH 104	Finite Mathematics	3/1	SCNC 103	Physical Science III/Lab (Astronomy & Meteorology)
3/1		BIOL 250	2	MATH 105	Trigonometry			
3/1		BOT 170	4	MATH 107	Pre-Calculus	2/1	* SOIL 210	Introduction to Soil Science/Lab
3	*	BUSN 120	3	* MATH 137	Applied Algebra			

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	College Writing Prep I
2		ASC 91	2	ASC 95	College Writing Prep II
2		ASC 92	2	ASC 96	College Writing Prep III
2		ASC 93	3/1	ASC 098	Basic Biology/Lab

*This 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 college degree requirements.