



**Electric Power Technology**  
 Associate in Applied Science  
 Advising Worksheet \* 2021-2022

Prescribed Technical Program Total	53
General Education Total	15
<b>Total Degree Credits</b>	<b>68</b>

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
<b>Total Credits</b>			<b>14</b>

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
<b>Total Credits</b>			<b>13</b>

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
<b>Total Credits</b>			<b>14</b>

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

General Education Requirements	Notes
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<b>Arts &amp; Humanities/Social &amp; Behavioral Sciences</b>	
1.	3
<b>Business, Math, Science &amp; Technology (Two areas of study required)</b>	
MATH 137	Applied Algebra or higher (required)
2.	CIS 164 Networking Fundamentals I (Recommended, not required) 3
<b>Communications I</b>	
ENGL 110	College Composition I (Required) 3
<b>Communications II</b> (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
<b>Total Credits</b>	
<b>15</b>	

\*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 <sup>1</sup>
- \_\_\_\_\_ Earned a minimum of 3 credits in Arts & Humanities/Social & Behavioral Sciences <sup>1</sup>
- \_\_\_\_\_ Earned a minimum of 6 credits in Business, Math, Science & Technology <sup>2</sup>
- \_\_\_\_\_ 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.**

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

<sup>2</sup> 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.		
_____	3	ENGL 110	College Composition I

Transfer Course

### Communications II

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

Gr.	Cr.		
_____	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	Physical Anthropology and Archeology	_____	3	HIST 101	Western Civilization I	_____	3	POLS 115	American Government
_____	3	ANTH 171	Introduction to Cultural Anthropology	_____	3	HIST 102	Western Civilization II	_____	3	POLS 116	State and Local Government
_____	3	ART 110	Introduction to the Visual Arts	_____	3	HIST 103	United States to 1877	_____	3	POLS 220	International Politics
_____	3	ART 122	Two-Dimensional Design	_____	3	HIST 104	United States Since 1877	_____	3	PSYC 100	Human Relations In Organizations
_____	3	ART 124	Three-Dimensional Design	_____	3	HIST 211	World Civilizations to 1500	_____	3	PSYC 111	Introduction to Psychology
_____	3	ART 130	Drawing I	_____	3	HIST 212	World Civilizations since 1500	_____	3	* PSYC 211	Introduction 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 261	Psychology of Adjustment
_____	3	ART 220	Painting I	_____	3	HIST 224	American Studies I	_____	3	PSYC 270	Abnormal Psychology
_____	3	ART 221	Painting II	_____	3	HIST 225	American Studies II	_____	3	RELS 120	Religion in America
_____	3	ART 230	Drawing II	_____	1-3	* HIST 243	Historical Investigations	_____	3	RELS 201	Life and Letters of Paul
_____	3	ART 250	Ceramics I	_____	3	HUMS 210	Integrated Cultural Studies	_____	3	RELS 203	World Religions
_____	3	ART 251	Ceramics II	_____	1-4	HUMS 211	Integrated Cultural Excursion	_____	3	RELS 220	Old Testament
_____	2	ART 265	Sculpture I	_____	2	HUMS 212	Integrated Cultural Enrichment	_____	3	RELS 230	New Testament
_____	2	ART 266	Sculpture II	_____	3	MUSC 100	Music Appreciation	_____	3	SOC 110	Introduction to Sociology
_____	3	* CIS 280	Cyber Ethics	_____	1	MUSC 117	Concert Choir	_____	3	SOC 115	Social Problems
_____	3	CJ 201	Introduction to Criminal Justice	_____	1	MUSC 118	Chamber Choir	_____	3	SOC 220	Family
_____	3	COMM 112	Understanding Media and Social Change	_____	1	MUSC 121	String Ensemble	_____	3	SOC 221	Minority Relations
_____	3	COMM 211	Oral Interpretation	_____	1	MUSC 132	Wind Ensemble	_____	3	SOC 235	Cultural Diversity
_____	3	COMM 212	Interpersonal Communications	_____	1	MUSC 133	Woodwind Ensemble I	_____	3	SOC 251	Gerontology
_____	3	ECON 105	Elements of Economics	_____	1	MUSC 134	Woodwind Ensemble II	_____	3	SOC 252	Criminology
_____	3	ECON 201	Principles of Microeconomics	_____	1	MUSC 135	Brass Ensemble I	_____	3	SOC 275	American Indian Studies
_____	3	ECON 202	Principles of Macroeconomics	_____	1	MUSC 136	Brass Ensemble II	_____	4	SPAN 101	First Year Spanish I
_____	3	ENGL 211	Introduction to Creative Writing	_____	1	MUSC 137	Jazz Ensemble	_____	4	SPAN 102	First Year Spanish II
_____	3	ENGL 221	Introduction to Drama	_____	1	* MUSC 138	Percussion Ensemble	_____	4	SPAN 201	Second Year Spanish I
_____	3	ENGL 222	Introduction to Poetry	_____	1	MUSC 145	Applied Music	_____	4	SPAN 202	Second Year Spanish II
_____	3	ENGL 233	Fantasy and Science Fiction	_____	1	MUSC 146	Applied Music - Major	_____	3	SWK 256	Development of Social Welfare
_____	3	ENGL 236	Women and Literature	_____	3	PHIL 101	Introduction to Philosophy	_____	3	THEA 110	Introduction to Theatre Arts
_____	3	ENGL 238	Children's Literature	_____	3	PHIL 210	Ethics	_____	3	THEA 161	Acting I
_____	3	ENGL 251	British Literature I	_____	3	PHIL 220	Introduction to Logic	_____	3	THEA 180	Dramatic Literature and Style I
_____	3	ENGL 252	British Literature II	_____	3	PHIL 250	Philosophy in Cinema	_____	3	THEA 181	Dramatic Literature and Style II
_____	3	ENGL 261	American Literature I	_____	3	PHIL 253	Environmental Ethics	_____	3	THEA 261	Acting II
_____	3	ENGL 262	American Literature II								
_____	3	ENGL 278	Alternative Literature								
_____	3	GEOG 161	World Regional Geography								

Transfer Courses

Transfer Courses

Transfer Courses

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## 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.