



Electrical Transmission Systems Technology

Associate in Applied Science
Advising Worksheet* 2021-2022

Prescribed Technical Program Total	51
General Education Total	15
Total Degree Credits	66

Semester I (Fall/Spring)

Prescribed Technical Program Requirements			
ETST	240	Power Industry Concepts	3
ENRT	106	DC Fundamentals (also offered in summer)	2
ENRT	108	AC Fundamentals (also offered in summer)	3
ETST	250	Electrical Generation Theory	4
Total Credits			12

Semester II (Fall/Spring)

Prescribed Technical Program Requirements			
ETST	254	Substations	3
ETST	256	Transformers	3
ETST	258	Protective Relaying	4
ETST	260	Electrical Diagram Interpretation	2
Total Credits			12

Semester III (Fall/Spring)

Prescribed Technical Program Requirements			
ETST	262	Power System Operations	3
ETST	266	Interconnected System Operations	3
ETST	268	Power Flow	3
ETST	270	System Operator Work Practices	3
Total Credits			12

Semester IV (Fall/Spring)

Prescribed Technical Program Requirements			
ETST	272	Power System Safety	3
ETST	274	SCADA Systems and Communication	3
ETST	276	Power System Economics	3
ETST	278	Power System Emergency Concepts	3
ETST	280	Reliability Policies & Procedures	3
Total Credits			15

General Education Requirements

Arts & Humanities/Social & Behavioral Sciences			
1.			3
Business, Math, Science & Technology (Two areas of study required)			
MATH	137	Applied Algebra or higher (required)	
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			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.

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 210	_____	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	GEOL 102	Historical Geology/Lab	2/1	PLSC 110	World Food Crops/Lab	
3/1		BIOL 150	3/1	GEOL 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	SCNC 102	Physical Science II/Lab (Physics & Geology)
3/1		BIOL 170	3	* GIS 107	GIS Applications		3/1	SCNC 103	Physical Science III/Lab (Astronomy & Meteorology)
3/1		BIOL 220	4	MATH 103	College Algebra		2/1	* SOIL 210	Introduction to Soil Science/Lab
3/1		BIOL 221	3	MATH 104	Finite Mathematics				
3/1		BIOL 250	2	MATH 105	Trigonometry				
3/1		BOT 170	4	MATH 107	Pre-Calculus				
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

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