



Electrical Transmission Systems Technology

Associate in Applied Science
Advising Worksheet* 2018-2019

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
ETST	242	Applied Mathematics for System Operators	2
ENRT	106	DC Fundamentals (also offered in summer)	2
ENRT	108	AC Fundamentals (also offered in summer)	3
ETST	260	Electrical Diagram Interpretation	2
Total Credits			12

Semester II (Fall/Spring)

Prescribed Technical Program Requirements

ETST	250	Electrical Generation Theory	4
ETST	254	System Elements I - Substations	3
ETST	256	System Elements II - Transformers	3
ETST	258	System Elements III - Protective Relaying	3
Total Credits			13

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	Communications & Control Technology	2
ETST	276	Power System Economics	3
ETST	278	Power System Emergency Concepts	3
ETST	280	Reliability Policies & Procedures	3
Total Credits			14

General Education Requirements

Arts & Humanities/Social & Behavioral Sciences

1.			3
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Business, Math, Science & Technology

1.			3
2.			3

Communications I

ENGL	110	College Composition I (Required)	3
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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

* 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) 2018-2019 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
- _____ 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
- Declared program of study is degree seeking
- Filed an Application for Degree in the Academic Records Office

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

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

Transfer Courses

Transfer Courses

Transfer Courses

_____	_____	_____
_____	_____	_____
_____	_____	_____

General Education Requirements Continued

Category III: BUSINESS, MATH, SCIENCE & TECHNOLOGY

(6 Credits) *Must be satisfied with courses from two areas of study. Area of study is based on course prefix.*

				Completed		Needed	
Gr.	Cr.			Gr.	Cr.		
_____	3	* ACCT 200	Elements of Accounting I	_____	3	MATH 146	Applied Calculus I
_____	3	* ACCT 201	Elements of Accounting II	_____	4	MATH 165	Calculus I
_____	3/1	ASTR 150	Meteorology/Lab	_____	4	MATH 166	Calculus II
_____	3	* BADM 202	Principles of Management	_____	3	* MATH 208	Discrete Mathematics
_____	3	* BADM 210	Advertising I	_____	3	MATH 210	Elementary Statistics
_____	3	* BADM 240	Sales	_____	4	* MATH 277	Mathematics for Elementary Teachers I
_____	3	* BADM 281	Organizational Behavior	_____	3/1	MICR 202	Introductory Microbiology/Lab
_____	3	* BADM 282	Human Resource Management	_____	3	* NUTR 240	Principles of Nutrition
_____	1	* BIOL 102	Introduction to Aquarium Keeping	_____	3/1	PHYS 100	Concepts of Physics/Lab
_____	3	BIOL 109	The Living World	_____	3/1	PHYS 110	Introductory Astronomy/Lab
_____	3/1	BIOL 111	Concepts of Biology/Lab	_____	4/1	PHYS 211	College Physics I/Lab
_____	3/1	BIOL 115	Human Structure and Function/Lab	_____	4/1	PHYS 212	College Physics II/Lab
_____	3	BIOL 124	Environmental Science	_____	4/1	PHYS 251	University Physics I/Lab
_____	3/1	BIOL 125	Introduction to Ecology/Lab	_____	4/1	PHYS 252	University Physics II/Lab
_____	3/1	BIOL 126	Human Biology/Lab	_____	2/1	PLSC 110	World Food Crops/Lab
_____	3/1	BIOL 150	General Biology I/Lab	_____	3/1	SCNC 101	Physical Science I/Lab (Biology & Chemistry)
_____	3/1	BIOL 151	General Biology II/Lab	_____	3/1	SCNC 102	Physical Science II/Lab (Physics & Geology)
_____	3/1	BIOL 220	Anatomy and Physiology I/Lab	_____	3/1	SCNC 103	Physical Science III/Lab (Astronomy & Meteorology)
_____	3/1	BIOL 221	Anatomy and Physiology II/Lab	_____	2/1 *	SOIL 210	Introduction to Soil Science/Lab
_____	3/1	BIOL 250	Survey of Tropical Biology/Lab				
_____	3/1	BOT 170	Plant Form and Diversity/Lab				
_____	3	* BUSN 120	Fundamentals of Business				
_____	3/1	CHEM 110	Survey of Chemistry/Lab				
_____	3/1	CHEM 112	Introduction to Forensic 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	Effective Reading	_____	2	ASC 94	College Writing Prep I
_____	3	ASC 087	College Writing Prep	_____	2	ASC 95	College Writing Prep II
_____	1	ASC 088	Composition Lab	_____	2	ASC 96	College Writing Prep III
_____	2	ASC 91	Algebra Prep I	_____	3/1	ASC 098	Basic Biology/Lab
_____	2	ASC 92	Algebra Prep II				
_____	2	ASC 93	Algebra Prep III				

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