



Electrical Transmission Systems Technology

Associate in Applied Science
Advising Worksheet* 2022-2023

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 110¹
- _____ Earned a minimum of 3 credits in Arts & Humanities/Social & Behavioral Sciences¹
- _____ Earned a minimum of 6 credits in Business, Math, Science & Technology²
- _____ 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	Physical Anthropology and Archeology		3	Western Civilization I		3	American Government
3		ANTH 171	3		HIST 102	3		POLS 116
	3	Introduction to Cultural Anthropology		3	Western Civilization II		3	State and Local Government
3		ART 110	3		HIST 103	3		POLS 220
	3	Introduction to the Visual Arts		3	United States to 1877		3	International Politics
3		ART 122	3		HIST 104	3		PSYC 100
	3	Two-Dimensional Design		3	United States Since 1877		3	Human Relations In Organizations
3		ART 124	3		HIST 211	3		PSYC 111
	3	Three-Dimensional Design		3	World Civilizations to 1500		3	Introduction to Psychology
3		ART 130	3		HIST 212	3	*	PSYC 211
	3	Drawing I		3	World Civilizations since 1500		3	Introduction to Behavior Modification
3		ART 210	3		HIST 220	3		PSYC 250
	3	Art History I		3	North Dakota History		3	Developmental Psychology
3		ART 211	3		HIST 222	3	*	PSYC 261
	3	Art History II		3	History of the Western Frontier		3	Psychology of Adjustment
3		ART 220	3		HIST 224	3		PSYC 270
	3	Painting I		3	American Studies I		3	Abnormal Psychology
3		ART 221	3		HIST 225	3		RELS 120
	3	Painting II		3	American Studies II		3	Religion in America
3		ART 230	1-3	*	HIST 243	3		RELS 201
	3	Drawing II		3	Historical Investigations		3	Life and Letters of Paul
3		ART 250	3		HUMS 210	3		RELS 203
	3	Ceramics I		3	Integrated Cultural Studies		3	World Religions
3		ART 251	1-4		HUMS 211	3		RELS 220
	2	Ceramics II		2	Integrated Cultural Excursion		3	Old Testament
2		ART 265	2		HUMS 212	3		RELS 230
	2	Sculpture I		2	Integrated Cultural Enrichment		3	New Testament
3		ART 266	3		MUSC 100	3		SOC 110
	3	Sculpture II		3	Music Appreciation		3	Introduction to Sociology
3	*	CIS 280	1		MUSC 117	3		SOC 115
	3	Cyber Ethics		1	Concert Choir		3	Social Problems
3		CJ 201	1		MUSC 118	3		SOC 220
	3	Introduction to Criminal Justice		1	Chamber Choir		3	Family
3		COMM 112	1		MUSC 121	3		SOC 221
	3	Understanding Media and Social Change		1	String Ensemble		3	Minority Relations
3		COMM 211	1		MUSC 132	3		SOC 235
	3	Oral Interpretation		1	Wind Ensemble		3	Cultural Diversity
3		COMM 212	1		MUSC 133	3		SOC 251
	3	Interpersonal Communications		1	Woodwind Ensemble I		3	Gerontology
3		ECON 105	1		MUSC 134	3		SOC 252
	3	Elements of Economics		1	Woodwind Ensemble II		3	Criminology
3		ECON 201	1		MUSC 135	3		SOC 275
	3	Principles of Microeconomics		1	Brass Ensemble I		3	American Indian Studies
3		ECON 202	1		MUSC 136	4		SPAN 101
	3	Principles of Macroeconomics		1	Brass Ensemble II		4	First Year Spanish I
3		ENGL 211	1		MUSC 137	4		SPAN 102
	3	Introduction to Creative Writing		1	Jazz Ensemble		4	First Year Spanish II
3		ENGL 221	1	*	MUSC 138	4		SPAN 201
	3	Introduction to Drama		1	Percussion Ensemble		4	Second Year Spanish I
3		ENGL 222	1		MUSC 145	4		SPAN 202
	3	Introduction to Poetry		1	Applied Music		3	Second Year Spanish II
3		ENGL 233	1		MUSC 146	3		SWK 256
	3	Fantasy and Science Fiction		1	Applied Music - Major		3	Development of Social Welfare
3		ENGL 236	3		PHIL 101	3		THEA 110
	3	Women and Literature		3	Introduction to Philosophy		3	Introduction to Theatre Arts
3		ENGL 238	3		PHIL 210	3		THEA 161
	3	Children's Literature		3	Ethics		3	Acting I
3		ENGL 251	3		PHIL 220	3		THEA 180
	3	British Literature I		3	PHIL 250	3		THEA 181
3		ENGL 252	3		PHIL 253	3		THEA 261
	3	British Literature II		3	Environmental Ethics		3	Acting II
3		ENGL 261	3					
	3	American Literature I		3				
3		ENGL 262	3					
	3	American Literature II		3				
3		ENGL 278	3					
	3	Alternative Literature		3				
3		GEOG 161	3					
	3	World Regional Geography		3				

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	_____	3	MATH 146
_____	3	* ACCT 201	_____	3/1	CHEM 112	_____	4	MATH 165
_____	3/1	ASTR 150	_____	3/1	CHEM 114	_____	4	MATH 166
_____	3	* BADM 202	_____	4/1	CHEM 115	_____	3	* MATH 208
_____	3	* BADM 210	_____	4/1	CHEM 116	_____	3	MATH 210
_____	3	* BADM 240	_____	4/1	CHEM 121	_____	4	* MATH 277
_____	3	* BADM 281	_____	4/1	CHEM 122	_____	3/1	MICR 202
_____	3	* BADM 282	_____	3	* CIS 147	_____	3	* NUTR 240
_____	1	* BIOL 102	_____	4	* CIS 164	_____	3/1	PHYS 100
_____	3	BIOL 109	_____	3	CSCI 101	_____	3/1	PHYS 110
_____	3/1	BIOL 111	_____	3	CSCI 122	_____	4/1	PHYS 211
_____	3/1	BIOL 115	_____	4	CSCI 160	_____	4/1	PHYS 212
_____	3	BIOL 124	_____	4	CSCI 161	_____	4/1	PHYS 251
_____	3/1	BIOL 125	_____	3/1	GEOG 121	_____	4/1	PHYS 252
_____	3/1	BIOL 126	_____	3/1	GEOL 102	_____	2/1	PLSC 110
_____	3/1	BIOL 150	_____	3/1	GEOL 105	_____	3/1	SCNC 101
_____	3/1	BIOL 151	_____	3	GIS 105	_____		(Biology & Chemistry)
_____	3/1	BIOL 170	_____	3	* GIS 107	_____	3/1	SCNC 102
_____	3/1	BIOL 220	_____	4	MATH 103	_____		(Physics & Geology)
_____	3/1	BIOL 221	_____	3	MATH 104	_____	3/1	SCNC 103
_____	3/1	BIOL 250	_____	2	MATH 105	_____		Physical Science III/Lab
_____	3/1	BOT 170	_____	4	MATH 107	_____	2/1	* SOIL 210
_____	3	* BUSN 120	_____	3	* MATH 137	_____		Introduction to Soil 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	_____	2	ASC 94
_____	2	ASC 91	_____	2	ASC 95
_____	2	ASC 92	_____	2	ASC 96
_____	2	ASC 93	_____	3/1	ASC 098

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