

Energy Services & Renewable Technician

Associate in Applied Science Advising Worksheet* 2018-2019

Prescribed Technical Program Total	54
General Education Total	16
Total Degree Credits	70

Seme	ester I	offered fall semesters		Completed
Prescr	ribed Tec	hnical Program Requirements		
ESRE	210	Electrical & Safe Work Practices	3	
ESRE	216	Mechanical Drive Systems	4	
ESRE	213	Hydraulic Fundamentals	3	
ESRE	218	Solar & Distributed Grid Systems	4	_
		Tota	al Credits 14	_

Seme	Semester IV					
Prescr	ibed Tec					
ENRT	112	Print Reading		3		
ENRT	103	Applied Math		3		
PWRP	224	Power Generation Components & Protection		3		
ENRT	116	Instrumentation & Control		4		
			Total Credits	13		

Completed

3

16

Total Credits

Semester II offered spring semesters		offered spring semesters		Completed
Prescri	bed Tech	nical Program Requirements		
ESRE	224	Automation & Control	3	
ESRE	221	Applied Electronics	3	
ESRE	226	Commercial Wind Systems	3	
ESRE	228	Energy Technician Applications & Troubleshooting	5	_
		Total Credits	14	-

Arts &	Humanitie	es/Social & Behavioral Sciences	
1.			
Busine	ess, Math, S	Science & Technology (Two areas of study)	
1.	CIS 164	Networking Fundamentals (Required)	
2.			
Comm	unications	I	
ENGL	110	College Composition I (Required)	
Comm	unications	II (Select one course.)	

College Composition II (Prerequisite: ENGL 110)

Fundamentals of Public Speaking

Intro to Professional Writing (Prerequisite: ENGL 110)

Seme	Complete			
Prescr	ibed Tec	hnical Program Requirements		
ENRT	122	Industrial Composition and Communication	4	
ENRT	105	Safety, Health & Environment	3	
ENRT	107	Mechanical Fundamentals	2	
ENRT	110	Plant Equipment & Systems	4	_
		Total Credits	13	_

ENGL

ENGL

120

125 COMM 110

Associate in Applied Science (AAS) 2018-2019 Catalog

ART 265

Sculpture I

Ad	visor:
Off	fice:
Ph	one:
Em	ail:

						Email:			
Degree	Checklis	t							
Credits	CHECKIIS								
	and a minimur	n of 3 credits in ENGL 110		Farner	d at loa	st 15 semester hours of institutiona	l cradit from BSC		
		n of 3 credits in ENGL 120, ENGL 125	or COMM 110 ¹		Minimum of 2.00 institutional GPA (BSC only)				
		n of 3 credits in Arts & Humanities/Sc							
		·				2.00 cumulative GPA (BSC + Transfe			
		n of 6 credits in Business, Math, Scier	0,			2.00 GPA in a prescribed technical p	orogram		
Com	ipleted prescr	ibed technical program requirements				ollege obligations			
		f CO dita				gram of study is degree seeking	Danasda Offica		
		n of 60 credits	d			ication for Degree in the Academic			
-ACC	idemic Skills C	ourses (ASC) do not count toward gra	duation	Specific prog	grams m	nay require additional degree/prog	gram requirements;	rejer to your program.	
1 Program	ns mav have a	specific Communications II requireme	ent: refer to your program degree p	olan. Les	gend				
-	-	areas of study. For example, a Biolog				se not approved as GERTA			
		r two Math courses.	, course and a main course, but n						
	0,								
Cananal	Fal., a.a.k	an Danwinsons							
General	Educati	on Requirements							
Category I:	COMMUNI	CATIONS				Completed	Neede	ed	
Communica	tions I								
(3 Credits) - E									
Gr. Cr.								_	
3	ENGL 110	College Composition I							
Transfer Course									
Communica	itions II								
(3 Credits) -EN	IGL 120, 125,	COMM 110 (Select one)							
Gr. Cr.									
³	ENGL 120 ENGL 125	College Composition II Introduction to Professional Writing							
3	COMM 110	Fundamentals of Public Speaking							
Transfer Course									
Conoral	Educati	on Doguiromants Cor	ation and						
		on Requirements Cor							
	ARTS & H	UMANITES/SOCIAL & BEHAVIO	DRAL SCIENCES			Completed	Neede	d	
(3 Credits)									
Gr. Cr.	ANTII 170	Dhusiaal Anthus valore and Archaelant	Gr. Cr.	store Civilization I		Gr. Cr.	American Caucana		
—— ³	ANTH 170 ART 110	Physical Anthropology and Archeology Introduction to the Visual Arts		stern Civilization I		3 POLS 115 3 POLS 116	American Governme State and Local Gov		
— ³	ART 122	Two-Dimensional Design		ited States to 1877		3 POLS 116 3 POLS 220	International Politic		
3	ART 124	Three-Dimensional Design	3 HIST 104 Un	ited States Since 1877		3 PSYC 111	Introduction to Psyc	hology	
3	ART 130	Drawing I		orld Civilizations to 1500		3 * PSYC 211	Introduction to Beh		
3	ART 210 ART 211	Art History I Art History II		orld Civilizations since 15 rth Dakota History	500	3 PSYC 250 3 * PSYC 261	Developmental Psyc Psychology of Adjus		
3	ART 211 ART 220	Painting I		rtn Dakota History tory of the Western Froi	ontier	3 PSYC 251 3 PSYC 270	Abnormal Psycholog		
3	ART 221	Painting II		erican Studies I		3 RELS 120	Religion in America		
3	ART 230	Drawing II		erican Studies II		3 RELS 201	Life and Letters of P	aul	
3 3	ART 250 ART 251	Ceramics I Ceramics II		torical Investigations egrated Cultural Studies	•	3 RELS 203 3 RELS 220	World Religions Old Testament		
3	DUI 531	Cerannes II	2 HOIVIS 210 IIIL	egraceu curturai atuules	3	3 NEL3 220	oiu restament		

1-4 HUMS 211

Integrated Cultural Excursion

RELS 230

New Testament

2 3 3 3	ART 266 CIS 280 CJ 201 COMM 112	Sculpture II Cyber Ethics Introduction to Criminal Justice Understanding Media and Social Change	= 2 3 1 1	HUMS 212 MUSC 100 MUSC 117 MUSC 118	Integrated Cultural Enrichment Music Appreciation Concert Choir Chamber Choir	3 3 3 3	SOC 110 SOC 115 SOC 220 SOC 221	Introduction to Sociology Social Problems Family Minority Relations	
3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	COMM 211 COMM 212 ECON 105 ECON 201 ECON 202 ENGL 211 ENGL 221 ENGL 223 ENGL 233 ENGL 236 ENGL 238 ENGL 251 ENGL 252 ENGL 262 ENGL 278 GEOG 161	Oral Interpretation Interpresonal Communications Elements of Economics Principles of Microeconomics Principles of Macroeconomics Introduction to Creative Writing Introduction to Drama Introduction to Poetry Fantasy and Science Fiction Women and Literature Children's Literature British Literature I British Literature II American Literature II American Literature II Alternative Literature World Regional Geography	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	MUSC 121 MUSC 132 MUSC 133 MUSC 134 MUSC 135 MUSC 136 MUSC 136 MUSC 137 MUSC 136 MUSC 137 MUSC 145 MUSC 145 MUSC 145 MUSC 145 MUSC 146 PHIL 101 PHIL 210 PHIL 220 PHIL 250 PHIL 253	String Ensemble Wind Ensemble I Woodwind Ensemble I Woodwind Ensemble II Brass Ensemble II Brass Ensemble II Jazz Ensemble Applied Music Applied Music - Major Introduction to Philosophy Ethics Introduction to Logic Philosophy in Cinema Environmental Ethics	3 3 3 4 4 4 4 4 3 3 3 3 3 3 3 3	SOC 235 SOC 251 SOC 252 SOC 255 SPAN 101 SPAN 102 SPAN 201 SPAN 202 SWK 256 THEA 110 THEA 161 THEA 180 THEA 261	Cultural Diversity Gerontology Criminology American Indian Studies First Year Spanish I First Year Spanish II Second Year Spanish II Development of Social Welfare Introduction to Theatre Arts Acting I Dramatic Literature and Style I Dramatic Literature and Style II Acting II	
Transfer Course	s		Transfer C	Courses		Transfer Co	urses		

ategory III: BUSINESS, MATH, SCIENCE & TECHNOL	OGY	Completed	Needed
Credits) Must be satisfied with courses from two areas of st		• -	
Section Sect	Gr. Cr. 3/1 CHEM 114 Chemistry in Art/Lab 4/1 CHEM 115 Introductory Chemistry/Lab 4/1 CHEM 116 Intro to Organic and Biochemistry/Lab 4/1 CHEM 121 General Chemistry I/Lab 4/1 CHEM 122 General Chemistry I/Lab 3 * CIS 147 Principles of Information Security 4 * CIS 164 Networking Fundamentals I 3 CSCI 101 Introduction to Computers 4 CSCI 160 Computer Science I 4 CSCI 161 Computer Science I 4 CSCI 161 Computer Science I 3/1 GEOL 102 Historical Geology/Lab 3/1 GEOL 105 Physical Geology/Lab 3/1 GEOL 105 Physical Geology/Lab 3/1 GEOL 105 Physical Geology/Lab 3/1 GIS 105 Fundamentals of GIS 3 * GIS 107 GIS Applications College Algebra 3 MATH 103 Finite Mathematics	Gr. Cr. 3 MATH 146 4 MATH 165 4 MATH 166 3 * MATH 208 3 MATH 210 4 * MATH 27 3/1 MICR 202 3 * NUTR 240 3/1 PHYS 100 4/1 PHYS 211 4/1 PHYS 211 4/1 PHYS 251 4/1 PHYS 252 2/1 PLSC 110 3/1 SCNC 101	Applied Calculus I Calculus I Calculus I Discrete Mathematics Elementary Statistics Mathematics for Elementary Teachers I Introductory Microbiology/Lab Principles of Nutrition Concepts of Physics/Lab Introductory Astronomy/Lab College Physics I/Lab College Physics I/Lab University Physics I/Lab University Physics I/Lab University Physics I/Lab World Food Crops/Lab Physical Science I/Lab (Biology & Chemistry) Physical Science II/Lab
3/1 BIOL 221 Anatomy and Physiology VLab 3/1 BIOL 221 Anatomy and Physiology VLab 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	2 MATH 104 - Inflict Mathematics 2 MATH 105 Trigonometry 4 MATH 107 Pre-Calculus 3 * MATH 137 Applied Algebra	3/1 SCNC 102 3/1 SCNC 103 2/1 * SOIL 210	Physical Science III/Lab (Physics & Geology) Physical Science III/Lab (Astronomy & Meteorology) Introduction to Soil Science/Lab
nsfer 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				

^{*}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.