



# Heating, Ventilation & Air Conditioning

## Diploma

Advising Worksheet\* 2016-2017

Prescribed Technical Program Total	44
General Education Total	9
Electives Total	7
<b>Total Degree Credits</b>	<b>60</b>

### Fall Semester

#### Prescribed Technical Program Requirements

SMTL	105	Sheet Metal I	3
SMTL	106	Sheet Metal II	6
SMTL	107	Sheet Metal III	4
SMTL	115	Practical Applications of Sheet Metal	4
<b>Total Credits</b>			<b>17</b>

### Spring Semester

#### Prescribed Technical Program Requirements

HVAC	100	Introduction to Heating, Ventilation and Air Conditioning	3
HVAC	103	Air Conditioning Theory and Components	5
HVAC	104	Heating Theory and Components	4
HVAC	114	Heating Systems Troubleshooting	5
<b>Total Credits</b>			<b>17</b>

### Summer Semester

#### Prescribed Technical Program Requirements

HVAC	213	Air Conditioning Systems Troubleshooting	5
REFG	215	Light Commercial Refrigeration	2
REFG	216	Domestic Refrigeration	3
<b>Total Credits</b>			<b>10</b>

### General Education Requirements

#### Arts & Humanities/Social & Behavioral Sciences

1.	3
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#### Business, Math, Science & Technology

1.	3
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#### Communications I (Select one course)

ENGL	110	College Composition I	3
COMM	110	Fundamentals of Public Speaking	

**Total Credits** **9**

### Electives

1.	3
2.	3
3.	1

**Total Credits** **7**

\*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.

# Diploma

## 2016-2017 Catalog

Advisor: \_\_\_\_\_

Office: \_\_\_\_\_

Phone: \_\_\_\_\_

Email: \_\_\_\_\_

### Degree Checklist

#### Credits

- \_\_\_\_\_ Earned a minimum of 3 credits in Communications
- \_\_\_\_\_ Earned a minimum of 3 credits in Arts & Humanities/Social & Behavioral Science
- \_\_\_\_\_ Earned a minimum of 3 credits in Business, Math, Science & Technology
- \_\_\_\_\_ Earned prescribed technical program requirements
- \_\_\_\_\_ Earned minimum Electives (Not required for all programs)
- ☐ Earned a minimum of 60 credits
- Academic Skills Courses (ASC) do not count toward graduation.*

- ☐ Earned a minimum of 15 institutional credits (BSC only)
- ☐ Earned a minimum 2.00 institutional GPA (BSC only)
- ☐ Earned a minimum 2.00 cumulative GPA (BSC + Transfer)
- ☐ Earned a minimum 2.00 GPA in a prescribed technical program
- ☐ Cleared all college obligations
- ☐ Declared program of study is Degree-seeking
- ☐ Filed an Application for Degree

#### Legend

(\*) Course not approved as GERTA

### General Education Requirements

#### Category I: COMMUNICATIONS

Completed \_\_\_\_\_ Needed \_\_\_\_\_

(3 Credits) - ENGL 110, 120, 125 or COMM 110 (Select One)

Gr.	Cr.		
_____	3	ENGL 110	College Composition I
_____	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	ART 110	_____	3	HIST 102	_____	3	POLS 220
_____	3	ART 122	_____	3	HIST 103	_____	3	PSYC 111
_____	3	ART 124	_____	3	HIST 104	_____	3	* PSYC 211
_____	3	ART 130	_____	3	HIST 220	_____	3	PSYC 250
_____	3	ART 210	_____	3	HIST 222	_____	3	* PSYC 261
_____	3	ART 211	_____	3	HIST 224	_____	3	PSYC 270
_____	3	ART 220	_____	3	HIST 225	_____	3	RELS 120
_____	3	ART 221	_____	1-3	* HIST 243	_____	3	RELS 201
_____	3	ART 230	_____	3	HUMS 210	_____	3	RELS 203
_____	3	ART 250	_____	1-4	HUMS 211	_____	3	RELS 220
_____	3	ART 251	_____	2	HUMS 212	_____	3	RELS 230
_____	2	ART 265	_____	3	MUSC 100	_____	3	SOC 110
_____	2	ART 266	_____	1	MUSC 117	_____	3	SOC 115
_____	3	CJ 201	_____	1	MUSC 118	_____	3	SOC 220
_____	3	COMM 211	_____	1	MUSC 121	_____	3	SOC 221
_____	3	* COMM 212	_____	1	MUSC 132	_____	3	SOC 235
_____	3	ECON 105	_____	1	MUSC 133	_____	3	SOC 251
_____	3	ECON 201	_____	1	MUSC 134	_____	3	SOC 252
_____	3	ECON 202	_____	1	MUSC 135	_____	3	SOC 275
_____	3	ENGL 211	_____	1	MUSC 136	_____	4	SPAN 101
_____	3	ENGL 221	_____	1	MUSC 137	_____	4	SPAN 102
_____	3	* ENGL 222	_____	1	* MUSC 138	_____	4	SPAN 201
_____	3	ENGL 233	_____	1	MUSC 145	_____	4	SPAN 202
_____	3	ENGL 236	_____	1	MUSC 146	_____	3	SWK 256
_____	3	ENGL 238	_____	3	PHIL 101	_____	3	THEA 110
_____	3	ENGL 251	_____	3	PHIL 210	_____	3	THEA 161
_____	3	ENGL 252	_____	3	PHIL 220	_____	3	THEA 261
_____	3	ENGL 261	_____	3	PHIL 250			
_____	3	ENGL 262	_____	3	PHIL 253			
_____	3	ENGL 278	_____	3	POLS 115			
_____	3	HIST 101	_____	3	POLS 116			

Transfer Course

Transfer Course

Transfer Course

## General Education Requirements Continued

### Category III: BUSINESS, MATH, SCIENCE & TECHNOLOGY

(3 Credits)

Gr.	Cr.			Gr.	Cr.			Gr.	Cr.		
	3	* ACCT 200	Elements of Accounting I		3/1	CHEM 110	Survey of Chemistry/Lab		3	MATH 146	Applied Calculus I
	3	* ACCT 201	Elements of Accounting II		3/1	CHEM 112	Introduction to Forensic Science/Lab		4	MATH 165	Calculus I
	3/1	ASTR 150	Meteorology/Lab		3/1	CHEM 114	Chemistry in Art/Lab		4	MATH 166	Calculus II
	3	* BADM 202	Principles of Management		4/1	CHEM 115	Introductory Chemistry/Lab		3	* MATH 208	Discrete Mathematics
	3	* BADM 210	Advertising I		4/1	CHEM 116	Intro to Organic and Biochemistry/Lab		3	MATH 210	Elementary Statistics
	3	* BADM 240	Sales		4/1	CHEM 121	General Chemistry I/Lab		4	* MATH 277	Math for Elementary Teachers I
	3	* BADM 281	Organizational Behavior		4/1	CHEM 122	General Chemistry II/Lab		3/1	MICR 202	Introductory Microbiology/Lab
	3	* BADM 282	Human Resource Management		4	* CIS 164	Networking Fundamentals I		3	* NUTR 240	Principles of Nutrition
	1	* BIOL 102	Introduction to Aquarium Keeping		3	CSCI 101	Introduction to Computers		3/1	PHYS 100	Concepts of Physics/Lab
	3	BIOL 109	The Living World		3	CSCI 122	Beginning Visual Basic		3/1	PHYS 110	Introductory Astronomy/Lab
	3/1	BIOL 111	Concepts of Biology/Lab		4	CSCI 160	Computer Science I		3/1	PHYS 211	College Physics I/Lab
	3/1	BIOL 115	Human Structure and Function/Lab		4	CSCI 161	Computer Science II		3/1	PHYS 212	College Physics II/Lab
	3	BIOL 124	Environmental Science		3/1	GEOG 121	Physical Geography/Lab		4/1	PHYS 251	University Physics I/Lab
	3/1	BIOL 126	Human Biology/Lab		3/1	GEOL 102	Historical Geology/Lab		4/1	PHYS 252	University Physics II/Lab
	3/1	BIOL 150	General Biology I/Lab		3/1	GEOL 105	Physical Geology/Lab		2/1	PLSC 110	World Food Crops/Lab
	3/1	BIOL 151	General Biology II/Lab		3	GIS 105	Fundamentals of GIS		3/1	SCNC 101	Physical Science I/Lab (Biology & Chemistry)
	3/1	BIOL 220	Anatomy and Physiology I/Lab		3	* GIS 107	GIS Applications		3/1	SCNC 102	Physical Science II/Lab (Physics & Geology)
	3/1	BIOL 221	Anatomy and Physiology II/Lab		4	MATH 103	College Algebra		3/1	SCNC 103	Physical Science III/Lab (Astronomy & Meteorology)
	3/1	BIOL 250	Survey of Tropical Biology/Lab		3	MATH 104	Finite Mathematics				
	3/1	BIOL 251	Community Ecology/Lab		2	MATH 105	Trigonometry				
	3/1	BOT 170	Plant Form and Diversity/Lab		4	MATH 107	Pre-Calculus				
	3	* BUSN 120	Fundamentals of Business		3	* MATH 137	Applied Algebra		2/1	* SOIL 210	Introduction to Soil Science/Lab
Transfer Course				Transfer Course				Transfer Course			

## Electives

						Completed_____		Needed_____	
Gr.	Cr.	Course	Gr.	Cr.	Course	Gr.	Cr.	Course	
_____			_____			_____			
_____			_____			_____			
_____			_____			_____			
_____			_____			_____			

## Academic Skills Courses (ASC)

The following Academic Skills Courses (ASC), as well as Math 102, are pre-college courses that indicate the need for college preparation work before enrollment in college level courses. These courses will not carry honor points or earned credit and will not count toward the student's degree program.

Gr.	Cr.			Gr.	Cr.		
_____	2	ASC 082	Effective Reading	_____	2	ASC 92	Algebra Prep II
_____	3	ASC 087	College Writing Prep	_____	2	ASC 93	Algebra Prep III
_____	1	ASC 088	Composition Lab	_____	3/1	ASC 098	Basic Biology/Lab
_____	2	ASC 91	Algebra Prep I				