



# Mechanical Maintenance Technology

Associate in Applied Science  
Advising Worksheet\* 2018-2019

Prescribed Technical Program Total	51
General Education Total	15
<b>Total Degree Credits</b>	<b>66</b>

## Freshman Fall Semester

Prescribed Technical Program Requirements			
MMAT	101	Introduction to Industrial Operations	2
MMAT	103	Safety and Health	2
MMAT	105	Hand and Portable Tools	2
MMAT	107	Basic Mechanics	2
MMAT	109	Measurements	2
MMAT	111	Schematics Symbols and Blueprints	2
MMAT	113	Industrial Rigging	1
MMAT	115	Lubrication, Bearings and Seals	2
MMAT	117	Material Handling Systems	1
MMAT	119	Troubleshooting Skills	1
<b>Total Credits</b>			<b>17</b>

## Freshman Spring Semester

Prescribed Technical Program Requirements			
MMAT	150	Mechanical & Fluid Drive Systems	2
MMAT	155	Hydraulics and Pneumatics	2
MMAT	160	Valves and Steam Traps	3
MMAT	162	Piping, Tubing Systems & Pipefitting	2
MMAT	170	Equipment Installation	2
MMAT	175	Pumps, Compressors and Turbines	4
MMAT	180	Metals & Nonmetals in the Plant	2
<b>Total Credits</b>			<b>17</b>

## Sophomore Fall Semester

Prescribed Technical Program Requirements			
WELD	110	Oxyfuel Operations	2
WELD	118	Testing OA in Welding, Brazing, Cutting	2
WELD	135	Welding Principles	2
WELD	140	Methods in GMA and FCA Welding	2
WELD	170	Arc Welding Operations	2
WELD	173	Methods in Arc Welding Operations	4
MMAT	205	Basic Electricity and Electronics	3
<b>Total Credits</b>			<b>17</b>

## General Education Requirements

Arts & Humanities/Social & Behavioral Sciences			
	1.		3
Business, Math, Science & Technology (Two areas of study)			
	1.		3
	2.		3
Communications I			
ENGL	110	College Composition I (Required)	3
Communications II (Select one course.)			
ENGL	120	College Composition II	
ENGL	125	Introduction to Professional Writing	3
COMM	110	Fundamentals of Public Speaking	
<b>Total Credits</b>			<b>15</b>

\* 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 <sup>1</sup>
- \_\_\_\_\_ Earned a minimum of 3 credits in Arts & Humanities/Social & Behavioral Sciences
- \_\_\_\_\_ Earned a minimum of 6 credits in Business, Math, Science & Technology <sup>2</sup>
- \_\_\_\_\_ 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.***

<sup>1</sup> Programs may have a specific Communications II requirement; refer to your program degree plan.

<sup>2</sup> 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
_____	3	ENGL 110 College Composition I

Transfer Course \_\_\_\_\_

#### Communications II

*(3 Credits) -ENGL 120, 125, COMM 110 (Select one)*

Gr.	Cr.	Course
_____	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 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	3/1	CHEM 114	Chemistry in Art/Lab	3	MATH 146	Applied Calculus I
3	*	ACCT 201	Elements of Accounting II	4/1	CHEM 115	Introductory Chemistry/Lab	4	MATH 165	Calculus I
3/1		ASTR 150	Meteorology/Lab	4/1	CHEM 116	Intro to Organic and Biochemistry/Lab	4	MATH 166	Calculus II
3	*	BADM 202	Principles of Management	4/1	CHEM 121	General Chemistry I/Lab	3	* MATH 208	Discrete Mathematics
3	*	BADM 210	Advertising I	4/1	CHEM 122	General Chemistry II/Lab	3	MATH 210	Elementary Statistics
3	*	BADM 240	Sales	3	* CIS 147	Principles of Information Security	4	* MATH 277	Mathematics for Elementary Teachers I
3	*	BADM 281	Organizational Behavior	4	* CIS 164	Networking Fundamentals I	3/1	MICR 202	Introductory Microbiology/Lab
3	*	BADM 282	Human Resource Management	3	CSCI 101	Introduction to Computers	3	* NUTR 240	Principles of Nutrition
1	*	BIOL 102	Introduction to Aquarium Keeping	3	CSCI 122	Beginning Visual Basic	3/1	PHYS 100	Concepts of Physics/Lab
3		BIOL 109	The Living World	4	CSCI 160	Computer Science I	3/1	PHYS 110	Introductory Astronomy/Lab
3/1		BIOL 111	Concepts of Biology/Lab	4	CSCI 161	Computer Science II	4/1	PHYS 211	College Physics I/Lab
3/1		BIOL 115	Human Structure and Function/Lab	3/1	GEOG 121	Physical Geography/Lab	4/1	PHYS 212	College Physics II/Lab
3		BIOL 124	Environmental Science	3/1	GEOG 102	Historical Geology/Lab	4/1	PHYS 251	University Physics I/Lab
3/1		BIOL 125	Introduction to Ecology/Lab	3/1	GEOG 105	Physical Geology/Lab	4/1	PHYS 252	University Physics II/Lab
3/1		BIOL 126	Human Biology/Lab	3	GIS 105	Fundamentals of GIS	2/1	PLSC 110	World Food Crops/Lab
3/1		BIOL 150	General Biology I/Lab	3	* GIS 107	GIS Applications	3/1	SCNC 101	Physical Science I/Lab (Biology & Chemistry)
3/1		BIOL 151	General Biology II/Lab	4	MATH 103	College Algebra	3/1	SCNC 102	Physical Science II/Lab (Physics & Geology)
3/1		BIOL 220	Anatomy and Physiology I/Lab	3	MATH 104	Finite Mathematics	3/1	SCNC 103	Physical Science III/Lab (Astronomy & Meteorology)
3/1		BIOL 221	Anatomy and Physiology II/Lab	2	MATH 105	Trigonometry	2/1	* SOIL 210	Introduction to Soil Science/Lab
3/1		BIOL 250	Survey of Tropical Biology/Lab	4	MATH 107	Pre-Calculus			
3/1		BOT 170	Plant Form and Diversity/Lab	3	* MATH 137	Applied Algebra			
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

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Transfer Courses

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Transfer Courses

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## 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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