



Mechanical Maintenance Technology

Associate in Applied Science
Advising Worksheet* 2019-2020

Prescribed Technical Program Total	51
General Education Total	15
Total Degree Credits	66

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
Total Credits			17

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
Total Credits			17

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
Total Credits			17

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	
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) 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 110 ¹
- Earned a minimum of 3 credits in Arts & Humanities/Social & Behavioral Sciences ¹
- 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
- 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	HIST 222	_____	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	HIST 224	_____	3	Abnormal Psychology
_____	3	ART 221	_____	3	HIST 225	_____	3	RELS 120
_____	3	Painting II	_____	3	HIST 225	_____	3	Religion in America
_____	3	ART 230	_____	1-3	* HIST 243	_____	3	RELS 201
_____	3	Drawing II	_____	3	HIST 243	_____	3	Life and Letters of Paul
_____	3	ART 250	_____	3	HUMS 210	_____	3	RELS 203
_____	3	Ceramics I	_____	3	HUMS 210	_____	3	World Religions
_____	3	ART 251	_____	1-4	HUMS 211	_____	3	RELS 220
_____	3	Ceramics II	_____	3	HUMS 211	_____	3	Old Testament
_____	2	ART 265	_____	2	HUMS 212	_____	3	RELS 230
_____	2	Sculpture I	_____	2	HUMS 212	_____	3	New Testament
_____	2	ART 266	_____	3	MUSC 100	_____	3	SOC 110
_____	2	Sculpture II	_____	3	MUSC 100	_____	3	Introduction to Sociology
_____	3	* CIS 280	_____	1	MUSC 117	_____	3	SOC 115
_____	3	Cyber Ethics	_____	1	MUSC 117	_____	3	Social Problems
_____	3	CJ 201	_____	1	MUSC 118	_____	3	SOC 220
_____	3	Introduction to Criminal Justice	_____	1	MUSC 118	_____	3	Family
_____	3	COMM 112	_____	1	MUSC 121	_____	3	SOC 221
_____	3	Understanding Media and Social Change	_____	1	MUSC 121	_____	3	Minority Relations
_____	3	COMM 211	_____	1	MUSC 121	_____	3	SOC 235
_____	3	Oral Interpretation	_____	1	MUSC 121	_____	3	Cultural Diversity
_____	3	COMM 212	_____	1	MUSC 132	_____	3	SOC 251
_____	3	Interpersonal Communications	_____	1	MUSC 132	_____	3	Gerontology
_____	3	ECON 105	_____	1	MUSC 133	_____	3	SOC 252
_____	3	Elements of Economics	_____	1	MUSC 133	_____	3	Criminology
_____	3	ECON 201	_____	1	MUSC 134	_____	3	SOC 275
_____	3	Principles of Microeconomics	_____	1	MUSC 134	_____	3	American Indian Studies
_____	3	ECON 202	_____	1	MUSC 135	_____	4	SPAN 101
_____	3	Principles of Macroeconomics	_____	1	MUSC 135	_____	4	First Year Spanish I
_____	3	ENGL 211	_____	1	MUSC 136	_____	4	SPAN 102
_____	3	Introduction to Creative Writing	_____	1	MUSC 136	_____	4	First Year Spanish II
_____	3	ENGL 221	_____	1	MUSC 137	_____	4	SPAN 201
_____	3	Introduction to Drama	_____	1	MUSC 137	_____	4	Second Year Spanish I
_____	3	ENGL 222	_____	1	* MUSC 138	_____	4	SPAN 202
_____	3	Introduction to Poetry	_____	1	MUSC 138	_____	4	Second Year Spanish II
_____	3	ENGL 233	_____	1	MUSC 145	_____	3	SWK 256
_____	3	Fantasy and Science Fiction	_____	1	MUSC 145	_____	3	Development of Social Welfare
_____	3	ENGL 236	_____	3	MUSC 146	_____	3	THEA 110
_____	3	Women and Literature	_____	3	MUSC 146	_____	3	Introduction to Theatre Arts
_____	3	ENGL 238	_____	3	PHIL 101	_____	3	THEA 161
_____	3	Children's Literature	_____	3	PHIL 101	_____	3	Acting I
_____	3	ENGL 251	_____	3	PHIL 210	_____	3	THEA 180
_____	3	British Literature I	_____	3	PHIL 210	_____	3	Dramatic Literature and Style I
_____	3	ENGL 252	_____	3	PHIL 220	_____	3	THEA 181
_____	3	British Literature II	_____	3	PHIL 220	_____	3	Dramatic Literature and Style II
_____	3	ENGL 261	_____	3	PHIL 250	_____	3	THEA 261
_____	3	American Literature I	_____	3	PHIL 250	_____	3	Acting II
_____	3	ENGL 262	_____	3	PHIL 253	_____	3	
_____	3	American Literature II	_____	3	PHIL 253	_____	3	
_____	3	ENGL 278	_____	3		_____	3	
_____	3	Alternative Literature	_____	3		_____	3	
_____	3	GEOG 161	_____	3		_____	3	
_____	3	World Regional Geography	_____	3		_____	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	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	Mathematics 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	_____	3	* CIS 147	Principles of Information Security	_____	3	* NUTR 240	Principles of Nutrition
_____	1	*	BIOL 102	Introduction to Aquarium Keeping	_____	4	* CIS 164	Networking Fundamentals I	_____	3/1	PHYS 100	Concepts of Physics/Lab
_____	3		BIOL 109	The Living World	_____	3	CSCI 101	Introduction to Computers	_____	3/1	PHYS 110	Introductory Astronomy/Lab
_____	3/1		BIOL 111	Concepts of Biology/Lab	_____	3	CSCI 122	Beginning Visual Basic	_____	4/1	PHYS 211	College Physics I/Lab
_____	3/1		BIOL 115	Concepts of Anatomy & Physiology/Lab	_____	4	CSCI 160	Computer Science I	_____	4/1	PHYS 212	College Physics II/Lab
_____	3		BIOL 124	Environmental Science	_____	4	CSCI 161	Computer Science II	_____	4/1	PHYS 251	University Physics I/Lab
_____	3/1		BIOL 125	Introduction to Ecology/Lab	_____	3/1	GEOG 121	Physical Geography/Lab	_____	4/1	PHYS 252	University Physics II/Lab
_____	3/1		BIOL 126	Human Biology/Lab	_____	3/1	GEOG 102	Historical Geology/Lab	_____	2/1	PLSC 110	World Food Crops/Lab
_____	3/1		BIOL 150	General Biology I/Lab	_____	3/1	GEOG 105	Physical Geology/Lab	_____	3/1	SCNC 101	Physical Science I/Lab (Biology & Chemistry)
_____	3/1		BIOL 151	General Biology II/Lab	_____	3	GIS 105	Fundamentals of GIS	_____	3/1	SCNC 102	Physical Science II/Lab (Physics & Geology)
_____	3/1		BIOL 170	General Zoology/Lab	_____	3	* GIS 107	GIS Applications	_____	3/1	SCNC 103	Physical Science III/Lab (Astronomy & Meteorology)
_____	3/1		BIOL 220	Anatomy and Physiology I/Lab	_____	4	MATH 103	College Algebra	_____	2/1 *	SOIL 210	Introduction to Soil Science/Lab
_____	3/1		BIOL 221	Anatomy and Physiology II/Lab	_____	3	MATH 104	Finite Mathematics				
_____	3/1		BIOL 250	Survey of Tropical Biology/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				

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
_____	2		ASC 91	Algebra Prep I	_____	2	ASC 95	College Writing Prep II
_____	2		ASC 92	Algebra Prep II	_____	2	ASC 96	College Writing Prep III
_____	2		ASC 93	Algebra Prep III	_____	3/1	ASC 098	Basic Biology/Lab

*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.