



Mechanical Maintenance Technology

Associate in Applied Science
Advising Worksheet* 2021-2022

Prescribed Technical Program Total	50
General Education Total	15
Total Degree Credits	65

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	3
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	5
Total Credits			17

Sophomore Fall Semester

Prescribed Technical Program Requirements			
WELD	110	OFC Operations	2
WELD	118	PAC and CAC Operations	2
WELD	135	Welding Principles	2
WELD	140	Methods in GMAW and FCAW	2
WELD	170	SMAW Operations	2
WELD	173	Methods in SMAW Operations	3
MMAT	205	Basic Electricity and Electronics	3
Total Credits			16

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)

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.		
_____	3	ENGL 110	College Composition I

Transfer Course _____

Communications II

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

Gr.	Cr.		
_____	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		ANTH 171	3		HIST 102	3		POLS 116
3		ART 110	3		HIST 103	3		POLS 220
3		ART 122	3		HIST 104	3		PSYC 100
3		ART 124	3		HIST 211	3		PSYC 111
3		ART 130	3		HIST 212	3	*	PSYC 211
3		ART 210	3		HIST 220	3		PSYC 250
3		ART 211	3		HIST 222	3	*	PSYC 261
3		ART 220	3		HIST 224	3		PSYC 270
3		ART 221	3		HIST 225	3		RELS 120
3		ART 230	1-3	*	HIST 243	3		RELS 201
3		ART 250	3		HUMS 210	3		RELS 203
3		ART 251	1-4		HUMS 211	3		RELS 220
2		ART 265	2		HUMS 212	3		RELS 230
2		ART 266	3		MUSC 100	3		SOC 110
3	*	CIS 280	1		MUSC 117	3		SOC 115
3		CJ 201	1		MUSC 118	3		SOC 220
3		COMM 112	1		MUSC 121	3		SOC 221
3		COMM 211	1		MUSC 132	3		SOC 235
3		COMM 212	1		MUSC 133	3		SOC 251
3		ECON 105	1		MUSC 134	3		SOC 252
3		ECON 201	1		MUSC 135	3		SOC 275
3		ECON 202	1		MUSC 136	4		SPAN 101
3		ENGL 211	1		MUSC 137	4		SPAN 102
3		ENGL 221	1	*	MUSC 138	4		SPAN 201
3		ENGL 222	1		MUSC 145	4		SPAN 202
3		ENGL 233	1		MUSC 146	3		SWK 256
3		ENGL 236	3		PHIL 101	3		THEA 110
3		ENGL 238	3		PHIL 210	3		THEA 161
3		ENGL 251	3		PHIL 220	3		THEA 180
3		ENGL 252	3		PHIL 250	3		THEA 181
3		ENGL 261	3		PHIL 253	3		THEA 261
3		ENGL 262						
3		ENGL 278						
3		GEOG 161						

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	Survey of Chemistry/Lab	3	MATH 146	Applied Calculus I
3	*	ACCT 201	3/1	CHEM 112	Introduction to Forensic Science/Lab	4	MATH 165	Calculus I
3/1		ASTR 150	3/1	CHEM 114	Chemistry in Art/Lab	4	MATH 166	Calculus II
3	*	BADM 202	4/1	CHEM 115	Introductory Chemistry/Lab	3	* MATH 208	Discrete Mathematics
3	*	BADM 210	4/1	CHEM 116	Intro to Organic and Biochemistry/Lab	3	MATH 210	Elementary Statistics
3	*	BADM 240	4/1	CHEM 121	General Chemistry I/Lab	4	* MATH 277	Mathematics for Elementary Teachers I
3	*	BADM 281	4/1	CHEM 122	General Chemistry II/Lab	3/1	MICR 202	Introductory Microbiology/Lab
3	*	BADM 282	3	* CIS 147	Principles of Information Security	3	* NUTR 240	Principles of Nutrition
1	*	BIOL 102	4	* CIS 164	Networking Fundamentals I	3/1	PHYS 100	Concepts of Physics/Lab
3		BIOL 109	3	CSCI 101	Introduction to Computers	3/1	PHYS 110	Introductory Astronomy/Lab
3/1		BIOL 111	3	CSCI 122	Beginning Visual Basic	4/1	PHYS 211	College Physics I/Lab
3/1		BIOL 115	4	CSCI 160	Computer Science I	4/1	PHYS 212	College Physics II/Lab
3		BIOL 124	4	CSCI 161	Computer Science II	4/1	PHYS 251	University Physics I/Lab
3/1		BIOL 125	3/1	GEOG 121	Physical Geography/Lab	4/1	PHYS 252	University Physics II/Lab
3/1		BIOL 126	3/1	GEOL 102	Historical Geology/Lab	2/1	PLSC 110	World Food Crops/Lab
3/1		BIOL 150	3/1	GEOL 105	Physical Geology/Lab	3/1	SCNC 101	Physical Science I/Lab (Biology & Chemistry)
3/1		BIOL 151	3	GIS 105	Fundamentals of GIS	3/1	SCNC 102	Physical Science II/Lab (Physics & Geology)
3/1		BIOL 170	3	* GIS 107	GIS Applications	3/1	SCNC 103	Physical Science III/Lab (Astronomy & Meteorology)
3/1		BIOL 220	4	MATH 103	College Algebra			Introduction to Soil Science/Lab
3/1		BIOL 221	3	MATH 104	Finite Mathematics			
3/1		BIOL 250	2	MATH 105	Trigonometry			
3/1		BOT 170	4	MATH 107	Pre-Calculus	2/1	* SOIL 210	
3	*	BUSN 120	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	2	ASC 94	College Writing Prep I
2		ASC 91	2	ASC 95	College Writing Prep II
2		ASC 92	2	ASC 96	College Writing Prep III
2		ASC 93	3/1	ASC 098	Basic Biology/Lab

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