

Name: \_\_\_\_\_ Date: \_\_\_\_\_



**Mechanical Maintenance  
Technology**  
Associate in Applied Science  
Degree Plan 2024-2025

Prescribed Technical Program Total	49
General Education Total	15
<b>Total Degree Credits</b>	<b>64</b>

Freshman Fall Semester				Completed
<b>Prescribed Technical Program Requirements</b>				
MMAT	101	Introduction to Industrial Operations	2	Fall 2024
MMAT	103	Safety and Health	2	Fall 2024
MMAT	105	Hand and Portable Tools	2	Fall 2024
MMAT	107	Basic Mechanics	2	Fall 2024
MMAT	109	Measurements	2	Fall 2024
MMAT	111	Schematics, Symbols and Blueprints	2	Fall 2024
MMAT	113	Industrial Rigging	1	Fall 2024
MMAT	115	Lubrication, Bearings and Seals	2	Fall 2024
MMAT	117	Material Handling Systems	1	Fall 2024
MMAT	119	Troubleshooting Skills	1	Fall 2024
<b>Total Credits</b>			<b>17</b>	

Sophomore Fall Semester				Completed
<b>Prescribed Technical Program Requirements</b>				
WELD	110	OFC Operations	2	
WELD	118	PAC and CAC Operations	2	
WELD	170	SMAW Operations	2	
WELD	173	Methods in SMAW Operations	3	
ENGL	110	College Composition	3	
MATH	137	Applied Algebra	3	
<b>Total Credits</b>			<b>15</b>	

Freshman Spring Semester				Completed
<b>Prescribed Technical Program Requirements</b>				
MMAT	150	Mechanical & Fluid Drive Systems	2	Spring 2025
MMAT	155	Hydraulics and Pneumatics	3	Spring 2025
MMAT	160	Valves and Steam Traps	3	Spring 2025
MMAT	162	Piping, Tubing Systems & Pipefitting	2	Spring 2025
MMAT	170	Equipment Installation	2	Spring 2025
MMAT	175	Pumps, Compressors and Turbines	5	Spring 2025
MMAT	205	Basic Electricity and Electronics	3	Spring 2025
<b>Total Credits</b>			<b>20</b>	

Sophomore Spring Semester				Completed
<b>Prescribed Technical Program Requirements</b>				
WELD	135	Welding Principles	2	
WELD	140	Methods of GMAW and FCAW	2	
ENGL	125	Introduction to Professional Writing	3	
HIST	103	United States to 1877	3	
CSCI	101	Introduction to Computers	3	
<b>Total Credits</b>			<b>13</b>	

<b>General Education Requirements</b>	<b>Completed</b>
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**Arts & Humanities/Social & Behavioral Sciences**

3

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**Business, Math, Science & Technology** (Two areas of study)

1. 3

2. 3

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**Communications I**

ENGL 110 College Composition I (Required) 3

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**Communications II** (Select one course.)

ENGL 120 College Composition II

ENGL 125 Introduction to Professional Writing 3

COMM 110 Fundamentals of Public Speaking

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15

*Total Credits*

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**Digital Literacy Requirement**

CSCI 101 Introduction to Computers\* 3

CIS 147 Principles of Information Technology\*

\*Courses approved to meet Digital Literacy Requirement of all degrees

\*Course listed as both General Education and Digital Literacy may satisfy both requirements.

Or Econ 201, PSYC 111 or SOC 110

Or CIS 147

# Associate of Applied Science General Education Requirements

Preferred General Education courses highlighted

## WRITTEN OR ORAL COMMUNICATIONS

Comp

(3 Credits) - ENGL 110

Gr. Cr. 3 ENGL 110 College Composition I

Transfer Course

101 ndu 2 Fall 2024 OFC Operations  
 MMA1 103 and 2 Fall 2024

MMA ## Ha 2 Fall 2024

Gr. ## Bas 2 Fall 2024 3  
 109 urei ENGL 120 Fall 2024 ENGL ## Co 3  
 MMA1 111 Sch 2 Fall 2024 MATH 137 Applied Algebra  
 MMA1 113 rial I 1 Fall 2024 **Total Credits 15**

MMA1 117 Ma 1 Fall 2024  
 MMA1 119 Tro 1 Fall 2024  
**Total Credits 17**

Sophomore Spring Semester

## ARTS & HUMANITIES/SOCIAL & BEHAVIORAL SCIENC Prescribed Technical Program Requirem

Completed

(3 Credits)

Spring 2025

WEL ## W 2

Gr. Cr. Spring 2025  
 3 ANTH 170 Spring 2025  
 3 ANTH 171 Spring 2025  
 170 it In 2 Spring 2025  
 175 sso 5 Spring 2025  
 205 y ar ART 124 Spring 2025  
 3 20 Drawing I  
 3 ART 210 Art History I  
 3 ART 230 Drawing II  
 3 ART 250 Ceramics I  
 3 ART 251 Ceramics II  
 2 ART 265 Sculpture I  
 2 ART 266 Sculpture II  
 3 CIS 280 Cyber Ethics  
 3 CJ 201 Introduction to Criminal Justice  
 3 COMM 112 Understanding Media and Social Change  
 3 COMM 211 Oral Interpretation  
 3 COMM 212 Interpersonal Communications  
 3 COMM 214 Persuasive Speaking  
 3 ECON 105 Elements of Economics  
 3 **ECON 201 Principles of Microeconomics**  
 3 ECON 202 Principles of Macroeconomics  
 3 ENGL 211 Introduction to Creative Writing  
 3 ENGL 222 Introduction to Poetry

WELD 140 iMA 2  
 ENGL 125 Prof GEOG 1 World Regional Geography  
 HIST 103 Uni GEOG 2 Geography of North A01, PSYC 111 or SOC 3  
 CSCI 101 Intr 3 Western Civilization I Or CIS 147  
**Total Credits 13** Western Civilization II  
 3 **HIST 10: United States to 1877**  
 3 HIST 10: United States Since 1877  
 3 HIST 10: World Civilizations to 1500  
 3 HIST 22: American Studies I  
 3 HIST 22: American Studies II  
 3 HIST 22: Topics in History

Gr. Cr.  
 3 GEOG 1 World Regional Geography  
 3 GEOG 2 Geography of North America  
 3 HIST 10: Western Civilization I  
 3 HIST 10: Western Civilization II  
 3 **HIST 10: United States to 1877**  
 3 HIST 10: United States Since 1877  
 3 HIST 10: World Civilizations to 1500  
 3 HIST 10: World Civilizations since 1500  
 3 HIST 22: North Dakota History  
 15

Total Credits

### Digital Literacy Requirement

CSCI 101 Int 3  
 CIS 147 Pri 3  
 \*Courses approved to meet Digital Literacy Requirement of all 4  
 \*Course listed as both General Education and Digital Literacy n 3  
 1 MUSC 1 Applied Music - Major 3  
 3 MUSC 2 World Music 3

_____	3	ENGL 261	American Literature I
_____	3	ENGL 262	American Literature II
_____	3	ENGL 278	Alternative Literature

_____	3	PHIL 10: Introduction to Philosophy	_____	3
_____	3	PHIL 21( Ethics	_____	3
_____	3	PHIL 22( Introduction to Logic	_____	3
_____	3	PHIL 25( Philosophy in Cinema	_____	3

Transfer Courses

Transfer Courses

Transfer Course

## BUSINESS, MATH, SCIENCE & TECHNOLOGY

(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 1	Introduction to Forensic Science/Lab	_____	3
_____	3	ACCT 201	Elements of Accounting II	_____	3/1	CHEM 1	Chemistry in Art/Lab	_____	3
_____	3/1	ATSC 110	Meteorology/Lab	_____		CHEM 1	Introductory Chemistry/Lab	_____	4
_____	3	BADM 202	Principles of Management	_____		CHEM 1	Intro to Organic and Biochemistry/Lab	_____	3
_____	3	BADM 210	Advertising I	_____		CHEM 1	General Chemistry I/Lab	_____	4
_____	3	BADM 240	Sales	_____		CHEM 1	General Chemistry II/Lab	_____	3/1
_____	3	BADM 281	Organizational Behavior	_____		CIS 147	Principles of Information Security	_____	3
_____	3	BADM 282	Human Resource Management	_____		CIS 164	Networking Fundamentals I	_____	3/1
_____	1	BIOL 102	Introduction to Aquarium Keeping	_____		CSCI 10:	Introduction to Computers	_____	3/1
_____	3	BIOL 109	The Living World	_____	3	CSCI 12:	Beginning Visual Basic	_____	4/1
_____	3/1	BIOL 111	Concepts of Biology/Lab	_____	4	CSCI 16(	Computer Science I	_____	4/1
_____	3/1	BIOL 115	Concepts of Anatomy & Physiology/Lab	_____	4	CSCI 16:	Computer Science II	_____	4/1
_____	3	BIOL 124	Environmental Science	_____	3/1	GEOG 1:	Physical Geography/Lab	_____	4/1
_____	3/1	BIOL 125	Introduction to Ecology/Lab	_____	3/1	GEOL 1C	Historical Geology/Lab	_____	2/1
_____	3/1	BIOL 150	General Biology I/Lab	_____	3/1	GEOL 1C	Physical Geology/Lab	_____	3/1
_____	3/1	BIOL 151	General Biology II/Lab	_____	3	GIS 105	Fundamentals of GIS	_____	
_____	3/1	BIOL 170	General Zoology/Lab	_____	3	GIS 107	GIS Applications	_____	3/1
_____	3/1	BIOL 220	Anatomy and Physiology I/Lab	_____	4	MATH 1	College Algebra	_____	
_____	3/1	BIOL 221	Anatomy and Physiology II/Lab	_____	3	MATH 1	Finite Mathematics	_____	3/1
_____	3/1	BOT 170	Plant Form and Diversity/Lab	_____	2	MATH 1	Trigonometry	_____	
_____	3	BUSN 120	Fundamentals of Business	_____	4	MATH 1	Pre-Calculus	_____	2/1 *
_____	3/1	CHEM 110	Survey of Chemistry/Lab	_____					

Transfer Courses

Transfer Courses

Transfer Course

## DIGITAL LITERACY

(3 Credits) Course listed as both general education and digital literacy may satisfy both requirements.

Gr.	Cr.	
_____	3	CSCI 101 Introduction to Computers
_____	3	CIS 147 Principles of Information Security
_____		Bismarck State College Approved Training Course

\*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>



leted \_\_\_\_\_ Needed \_\_\_\_\_

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\_\_\_\_\_ **Needed** \_\_\_\_\_

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PHIL 253	Environmental Ethics
POLS 115	American Government
POLS 116	State and Local Government
POLS 220	International Politics
POLS 240	Political Ideologies
PSYC 100	Human Relations In Organizations
<b>PSYC 111</b>	<b>Introduction to Psychology</b>
PSYC 270	Abnormal Psychology
RELS 120	Religion in America
RELS 201	Life and Letters of Paul
RELS 203	World Religions
RELS 220	Old Testament
RELS 230	New Testament
<b>SOC 110</b>	<b>Introduction to Sociology</b>
SOC 115	Social Problems
SOC 220	Family
SOC 221	Minority Relations
SOC 235	Cultural Diversity
SOC 251	Gerontology
SOC 252	Criminology
SOC 275	American Indian Studies
SPAN 101	First Year Spanish I
SPAN 102	First Year Spanish II

SPAN 201	Second Year Spanish I
SPAN 202	Second Year Spanish II
SWK 256	Development of Social Welfare
THEA 110	Introduction to Theatre Arts
THEA 161	Acting I

THEA 180      Dramatic Literature and Style I  
 THEA 181      Dramatic Literature and Style II  
 THEA 261      Acting II

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Completed	Needed
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<b>MATH 137</b>	<b>Applied Algebra</b>
MATH 146	Applied Calculus I
MATH 165	Calculus I
<b>MATH 210</b>	<b>Elementary Statistics</b>
MATH 277	Mathematics for Elementary Teachers I
MICR 202	Introductory Microbiology/Lab
NUTR 240	Principles of Nutrition
PHYS 100	Concepts of Physics/Lab
PHYS 110	Introductory Astronomy/Lab
PHYS 211	College Physics I/Lab
PHYS 212	College Physics II/Lab
PHYS 251	University Physics I/Lab
PHYS 252	University Physics II/Lab
PLSC 110	World Food Crops/Lab
SCNC 101	Physical Science I/Lab (Biology & Chemistry)
SCNC 102	Physical Science II/Lab (Physics & Geology)
SCNC 103	Physical Science III/Lab (Astronomy & Meteorology)
SOIL 210	Introduction to Soil Science/Lab

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Completed	Needed
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du/ for the complete listing of college degree requirements.