



# Mechanical Maintenance Technology

## Program Certificate

Prescribed Technical Program Total	51
General Education Total	4
<b>Total Degree Credits</b>	<b>55</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>

### 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>

### 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	215	Metals & Nonmetals in the Plant	2
<b>Total Credits</b>			<b>17</b>

### General Education Requirements

(Select 4 credits of general education courses in 2 areas of study.)

1.	4	
2.		
<b>Total Credits</b>		<b>4</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.



3/1	BOT 170	Plant Form and Diversity/Lab	2	MATH 105	Trigonometry	3	SOC 110	Introduction to Sociology
3	* BUSN 120	Fundamentals of Business	4	MATH 107	Pre-Calculus	3	SOC 115	Social Problems
3/1	CHEM 110	Survey of Chemistry/Lab	3	* MATH 137	Applied Algebra	3	SOC 220	Family
3/1	CHEM 112	Introduction to Forensic Science/Lab	3	MATH 146	Applied Calculus I	3	SOC 221	Minority Relations
3/1	CHEM 114	Chemistry in Art/Lab	4	MATH 165	Calculus I	3	SOC 235	Cultural Diversity
4/1	CHEM 115	Introductory Chemistry/Lab	4	MATH 166	Calculus II	3	SOC 251	Gerontology
4/1	CHEM 116	Intro to Organic and Biochemistry/Lab	3	* MATH 208	Discrete Mathematics	3	SOC 252	Criminology
4/1	CHEM 121	General Chemistry I/Lab	3	MATH 210	Elementary Statistics	3	SOC 275	American Indian Studies
4/1	CHEM 122	General Chemistry II/Lab	4	* MATH 277	Math for Elementary Teachers I	2/1 *	SOIL 210	Introduction to Soil Science/Lab
4	* CIS 164	Networking Fundamentals I	3/1	MICR 202	Introductory Microbiology/Lab	4	SPAN 101	First Year Spanish I
3	CJ 201	Introduction to Criminal Justice	3	MUSC 100	Music Appreciation	4	SPAN 102	First Year Spanish II
3	COMM 110	Fundamentals of Public Speaking	1	MUSC 117	Concert Choir	4	SPAN 201	Second Year Spanish I
3	COMM 211	Oral Interpretation	1	MUSC 118	Chamber Choir	4	SPAN 202	Second Year Spanish II
3	* COMM 212	Interpersonal Communications	1	MUSC 121	String Ensemble	3	SWK 256	Development of Social Welfare
3	CSCI 101	Introduction to Computers	1	MUSC 132	Wind Ensemble	3	THEA 110	Introduction to Theatre Arts
3	CSCI 122	Beginning Visual Basic	1	MUSC 133	Woodwind Ensemble I	3	THEA 161	Acting I
4	CSCI 160	Computer Science I	1	MUSC 134	Woodwind Ensemble II	3	THEA 261	Acting II
4	CSCI 161	Computer Science II	1	MUSC 135	Brass Ensemble I			
3	ECON 105	Elements of Economics	1	MUSC 136	Brass Ensemble II			
3	ECON 201	Principles of Microeconomics	1	MUSC 137	Jazz Ensemble			
3	ECON 202	Principles of Macroeconomics	1	* MUSC 138	Percussion Ensemble			

Transfer Course

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## 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			

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

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

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

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