



Mechanical Maintenance Technology

Program Certificate

Advising Worksheet* 2018-2019

Prescribed Technical Program Total	51
General Education Total	4
Total Degree Credits	55

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

Complete 4 credits of general education from any two areas of study.

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Total Credits	4

* 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.

_____	1-4	HUMS 211	Integrated Cultural Excursion
_____	2	HUMS 212	Integrated Cultural Enrichment
_____	4	MATH 103	College Algebra
_____	3	MATH 104	Finite Mathematics
_____	2	MATH 105	Trigonometry
_____	4	MATH 107	Pre-Calculus
_____	3	* MATH 137	Applied Algebra
_____	3	MATH 146	Applied Calculus I
_____	4	MATH 165	Calculus I
_____	4	MATH 166	Calculus II
_____	3	* MATH 208	Discrete Mathematics
_____	3	MATH 210	Elementary Statistics
_____	4	* MATH 277	Mathematics for Elementary Teachers I
_____	3/1	MICR 202	Introductory Microbiology/Lab
_____	3	MUSC 100	Music Appreciation
_____	1	MUSC 117	Concert Choir
_____	1	MUSC 118	Chamber Choir
_____	1	MUSC 121	String Ensemble
_____	1	MUSC 132	Wind Ensemble
_____	1	MUSC 133	Woodwind Ensemble I
_____	1	MUSC 134	Woodwind Ensemble II
_____	1	MUSC 135	Brass Ensemble I
_____	1	MUSC 136	Brass Ensemble II
_____	1	MUSC 137	Jazz Ensemble
_____	1	* MUSC 138	Percussion Ensemble
_____	1	MUSC 145	Applied Music
_____	1	MUSC 146	Applied Music - Major
_____	3	* NUTR 240	Principles of Nutrition

Transfer Course

_____	3	PHIL 101	Introduction to Philosophy
_____	3	PHIL 210	Ethics
_____	3	PHIL 220	Introduction to Logic
_____	3	PHIL 250	Philosophy in Cinema
_____	3	PHIL 253	Environmental Ethics
_____	3/1	PHYS 100	Concepts of Physics/Lab
_____	3/1	PHYS 110	Introductory Astronomy/Lab
_____	4/1	PHYS 211	College Physics I/Lab
_____	4/1	PHYS 212	College Physics II/Lab
_____	4/1	PHYS 251	University Physics I/Lab
_____	4/1	PHYS 252	University Physics II/Lab
_____	2/1	PLSC 110	World Food Crops/Lab
_____	3	POLS 115	American Government
_____	3	POLS 116	State and Local Government
_____	3	POLS 220	International Politics
_____	3	PSYC 111	Introduction to Psychology
_____	3	* PSYC 211	Introduction to Behavior Modification
_____	3	PSYC 250	Developmental Psychology
_____	3	* PSYC 261	Psychology of Adjustment
_____	3	PSYC 270	Abnormal Psychology
_____	3	RELS 120	Religion in America
_____	3	RELS 201	Life and Letters of Paul
_____	3	RELS 203	World Religions
_____	3	RELS 220	Old Testament
_____	3	RELS 230	New Testament
_____	3/1	SCNC 101	Physical Science I/Lab (Biology & Chemistry)

Transfer Course

_____	3/1	SCNC 102	Physical Science II/Lab (Physics & Geology)
_____	3/1	SCNC 103	Physical Science III/Lab (Astronomy & Meteorology)
_____	3	SOC 110	Introduction to Sociology
_____	3	SOC 115	Social Problems
_____	3	SOC 220	Family
_____	3	SOC 221	Minority Relations
_____	3	SOC 235	Cultural Diversity
_____	3	SOC 251	Gerontology
_____	3	SOC 252	Criminology
_____	3	SOC 275	American Indian Studies
_____	2/1 *	SOIL 210	Introduction to Soil Science/Lab
_____	4	SPAN 101	First Year Spanish I
_____	4	SPAN 102	First Year Spanish II
_____	4	SPAN 201	Second Year Spanish I
_____	4	SPAN 202	Second Year Spanish II
_____	3	SWK 256	Development of Social Welfare
_____	3	THEA 110	Introduction to Theatre Arts
_____	3	THEA 161	Acting I
_____	3	THEA 180	Dramatic Literature and Style I
_____	3	THEA 181	Dramatic Literature and Style II
_____	3	THEA 261	Acting II

Transfer Course

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 a Program Certificate.

Gr.	Cr.		Gr.	Cr.		Gr.	Cr.				
_____	2	ASC 082	Effective Reading	_____	2	ASC 91	Algebra Prep I	_____	2	ASC 94	College Writing Prep I
_____	3	ASC 087	College Writing Prep	_____	2	ASC 92	Algebra Prep II	_____	2	ASC 95	College Writing Prep II
_____	1	ASC 088	Composition Lab	_____	2	ASC 93	Algebra Prep III	_____	2	ASC 96	College Writing Prep III
								_____	3/1	ASC 098	Basic Biology/Lab

Advisor: _____
Office: _____
Phone: _____
Email: _____