

Mechanical Maintenance Technology

Total Credits

Program Certificate
Advising Worksheet* 2017-2018

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			

	113	Eddition, Bearings and Seas		_
MMAT	117	Material Handling Systems		1
MMAT	119	Troubleshooting Skills		1
			Total Credits	17
Fresh	man [©]	Spring Semester		
		hnical 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

Metals & Nonmetals in the Plant

MMAT 180

Sophomore Fall Semester							
Prescrib	ed Tech	nical 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.					
1.		1			
2.	_	4			
	-				
	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.

Program Certificate -

Programs Containing 45 or more Prescribed Technical Program Requirements 2017-2018 Catalog

Degree (Checklist		
	Earned at least 15 semester hours of institutional credit from BSC		Completed prescribed technical program requirements
	Minimum of 2.00 institutional GPA (BSC only)		Cleared all college obligations
	Minimum of 2.00 cumulative GPA (BSC + Transfer)		Filed an Application for Degree in the Academic Records Office
	Minimum of 2.00 GPA in a prescribed technical program		
	Earned a minimum of 4 semester hours of general education credit from two are	eas of st	udy
			Legend (*) Course not approved as GERTA

General Education Requirements

oarams con	tainina 45 or i	more credits must complete 4 credits o	f general rduc	ation from two	areas of study.			
ir. Cr.	tanning 45 or 1	nore creates must complete 4 creates o	Gr. Cr.	ation from two	areas of stady.	Gr. Cr.		
3 *	ACCT 200	Elements of Accounting I	3	ENGL 110	College Composition I	1	MUSC 137	Jazz Ensemble
3 *	ACCT 201	Elements of Accounting II	3	ENGL 120	College Composition II	1 *	MUSC 138	Percussion Ensemble
3	ART 110	Introduction to the Visual Arts	3	ENGL 125	Introduction to Professional Writing	1	MUSC 145	Applied Music
3	ART 122	Two-Dimensional Design	3	ENGL 211	Introduction to Creative Writing	₁	MUSC 146	Applied Music - Major
3	ART 124	Three-Dimensional Design	3	ENGL 221	Introduction to Drama	3 *	NUTR 240	Principles of Nutrition
3	ART 130	Drawing I	3	ENGL 222	Introduction to Poetry	3	PHIL 101	Introduction to Philosophy
3	ART 210	Art History I	3	ENGL 233	Fantasy and Science Fiction	3	PHIL 210	Ethics
3	ART 211	Art History II	3	ENGL 236	Women and Literature	3	PHIL 220	Introduction to Logic
3	ART 220	Painting I	3	ENGL 238	Children's Literature		PHIL 250	Philosophy in Cinema
3	ART 221	Painting II	3	ENGL 251	British Literature I		PHIL 253	Environmental Ethics
3	ART 230	Drawing II		ENGL 252	British Literature II		PHYS 100	Concepts of Physics/Lab
 3	ART 250	Ceramics I	3	ENGL 261	American Literature I		PHYS 110	Introductory Astronomy/Lab
3	ART 251	Ceramics II	3	ENGL 262	American Literature II	3/1	PHYS 211	College Physics I/Lab
_ 2	ART 265	Sculpture I		ENGL 278	Alternative Literature	3/1	PHYS 212	College Physics II/Lab
_ 2	ART 266	Sculpture II	3/1	GEOG 121	Physical Geography/Lab		PHYS 251	University Physics I/Lab
3/1	ASTR 150	Meteorology/Lab	3	GEOG 161	World Regional Geography	4/1	PHYS 252	University Physics II/Lab
- 3 *	BADM 202	Principles of Management	3/1	GEOL 102	Historical Geology/Lab	2/1	PLSC 110	World Food Crops/Lab
_ 3 *	BADM 210	Advertising I	3/1	GEOL 105	Physical Geology/Lab	, 3	POLS 115	American Government
_ 3 *	BADM 240	Sales	3	GIS 105	Fundamentals of GIS		POLS 116	State and Local Government
_ 3 *	BADM 281	Organizational Behavior	3	* GIS 107	GIS Applications	3	POLS 220	International Politics
_ 3 *	BADM 282	Human Resource Management	3	HIST 101	Western Civilization I		PSYC 111	Introduction to Psychology
_ 1 *	BIOL 102	Introduction to Aquarium Keeping	3	HIST 102	Western Civilization II		PSYC 211	Introduction to Behavior Modificati
_ 3	BIOL 109	The Living World	3	HIST 103	United States to 1877		PSYC 250	Developmental Psychology
3/1	BIOL 111	Concepts of Biology/Lab		HIST 104	United States since 1877	3 *	PSYC 261	Psychology of Adjustment
3/1	BIOL 115	Human Structure and Function/Lab	3	HIST 211	World Civilizations to 1500		PSYC 270	Abnormal Psychology
— '3	BIOL 124	Environmental Science	3	HIST 212	World Civilizations since 1500		RELS 120	Religion in America
3/1	BIOL 125	Introduction to Ecology/Lab		HIST 220	North Dakota History		RELS 201	Life and Letters of Paul
3/1	BIOL 126	Human Biology/Lab	3	HIST 222	History of the Western Frontier		RELS 203	World Religions
3/1	BIOL 150	General Biology I/Lab	 3	HIST 224	American Studies I		RELS 220	Old Testament
3/1	BIOL 151	General Biology II/Lab	 3	HIST 225	American Studies II		RELS 230	New Testament
3/1	BIOL 220	Anatomy and Physiology I/Lab	1-3	* HIST 243	Historical Investigations		SCNC 101	Physical Science I/Lab
3/1	BIOL 221	Anatomy and Physiology II/Lab	3	HUMS 210	Integrated Cultural Studies			(Biology & Chemistry)
3/1	BIOL 250	Survey of Tropical Biology/Lab	1-4	HUMS 211	Integrated Cultural Excursion	3/1	SCNC 102	Physical Science II/Lab
3/1	BOT 170	Plant Form and Diversity/Lab		HUMS 212	Integrated Cultural Enrichment			(Physics & Geology)

3 * 3/1 3/1 3/1 4/1 4/1 4/1 4/1 4/1 3 3 3 3 3 4 4 4 4 3 3 3 3 3 3 3 3 3 3	BUSN 120 CHEM 110 CHEM 112 CHEM 114 CHEM 115 CHEM 116 CHEM 121 CHEM 122 CIS 164 CI 201 COMM 112 COMM 211 COMM 211 COMM 212 CSCI 101 CSCI 122 CSCI 160 CSCI 161 ECON 105 ECON 201 ECON 202	Fundamentals of Business Survey of Chemistry/Lab Introduction to Forensic Science/Lab Chemistry in Art/Lab Introductory Chemistry/Lab Intro to Organic and Biochemistry/Lab General Chemistry I/Lab General Chemistry II/Lab Networking Fundamentals I Introduction to Criminal Justice Fundamentals of Public Speaking Understanding Media and Social Change Oral Interpretation Interpersonal Communications Introduction to Computers Beginning Visual Basic Computer Science I Computer Science I Elements of Economics Principles of Microeconomics	4 3 2 4 3 3 4 4 3 3 3 1 1 1 1 1 1 1 1 1 1	MATH 103 MATH 104 MATH 105 MATH 107 * MATH 137 MATH 146 MATH 165 * MATH 208 MATH 210 * MATH 210 * MATH 210 MUSC 100 MUSC 117 MUSC 118 MUSC 121 MUSC 132 MUSC 133 MUSC 134 MUSC 135 MUSC 136	College Algebra Finite Mathematics Trigonometry Pre-Calculus Applied Algebra Applied Calculus I Calculus II Discrete Mathematics Elementary Statistics Math for Elementary Teachers I Introductory Microbiology/Lab Music Appreciation Concert Choir Chamber Choir String Ensemble Wind Ensemble Woodwind Ensemble II Brass Ensemble II Brass Ensemble II Brass Ensemble II	3/1 3 3 3 3 3 3 3 3 3 4 4 4 4 4 4 3 3 3 3	SOC 110 SOC 115 SOC 220 SOC 221 SOC 235 SOC 251 SOC 251 SOC 252 SOC 275 * SOIL 210	Physical Science III/Lab (Astronomy & Meteorology) Introduction to Sociology Social Problems Family Minority Relations Cultural Diversity Gerontology Criminology American Indian Studies Introduction to Soil Science/Lab First Year Spanish I First Year Spanish II Second Year Spanish II Second Year Spanish II Development of Social Welfare Introduction to Theatre Arts Acting I Acting II
Transfer Cours	e		Transfer Course			Transfer C	ourse	
A 1	. 61.11	(466)						
		Courses (ASC)		<u> </u>				
, ,		lls Courses (ASC) are pre-college courses titutional credit requirements and cann		•		_	level courses. Ti	hese courses will not fulfill general
Gr. Cr.	quirements, ms	erational create regulierieries and earling	Gr. Cr.	ed in the semes	ter nours required for a riogram certification	jicate.		
2	ASC 082	Effective Reading	2	ASC 94	College Writing Prep I			
3	ASC 087	College Writing Prep	2 2	ASC 95 ASC 96	College Writing Prep II College Writing Prep III			
	ASC 088 ASC 91	Composition Lab Algebra Prep I	3/1	ASC 98	Basic Biology/Lab			
	ASC 92	Algebra Prep II		7.50 050	24310 2101081/ 240			
2	ASC 93	Algebra Prep III						
Advisor:								
- 66								
Office:								
Phone:								
Email:								

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