



Mechanical Maintenance Technology Program Certificate

Prescribed Technical Program Total	52
General Education Total	4
Total Degree Credits	56

Freshman Fall Semester

Prescribed Technical Program Requirements

MMAT	101	Intro 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	3
MMAT	170	Equipment Installation	3
MMAT	175	Pumps, Compressors and Turbines	4
MMAT	215	Metals & Nonmetals in the Plant	2
Total Credits			19

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	2
Total Credits			16

General Education Requirements

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

1.		4
2.		
Total Credits		4

Program Certificate

Degree Checklist

- ☐ Earned a minimum of 15 institutional credit (BSC only)
- ☐ Earned a minimum 2.00 institutional GPA (BSC only)
- ☐ Earned a minimum 2.00 cumulative GPA (BSC + Transfer)
- ☐ Earned a minimum 2.00 Prescribed Technical Program GPA

- ☐ Completed prescribed technical program requirements
- ☐ Cleared all college obligations
- ☐ Filed an Application for Degree

Programs containing 45 or more credits

- ☐ Earned a minimum of 4 credits of General Education from two areas of study

-Academic Skills Courses (ASC) do not apply toward graduation.

Legend

(*) Course not approved as GERTA

General Education Requirements

Programs containing 45 or more credits must complete 4 credits of General Education from two areas of study.

Gr.	Cr.		Gr.	Cr.		Gr.	Cr.				
	3	* ACCT 200	Elements of Accounting I		3	ENGL 110	College Composition I		1	MUSC 145	Applied Music
	3	* ACCT 201	Elements of Accounting II		3	ENGL 120	College Composition II		1	MUSC 146	Applied Music - Major
	3	ART 110	Intro to the Visual Art		3	ENGL 125	Intro to Professional Writing		3	* NUTR 240	Principles of Nutrition
	3	ART 122	Two Dimensional Design		3	ENGL 211	Intro to Creative Writing		3	PHIL 101	Intro to Philosophy
	3	ART 124	Three Dimensional Design		3	ENGL 221	Intro to Drama		3	PHIL 210	Ethics
	3	ART 130	Drawing I		3	ENGL 222	Intro to Poetry		3	PHIL 220	Intro to Logic
	3	ART 210	Art History I		3	ENGL 233	Fantasy & Science Fiction		3	PHIL 250	Philosophy in Cinema
	3	ART 211	Art History II		3	ENGL 236	Women & Literature		3/1	PHYS 100	Concepts of Physics/Lab
	3	ART 220	Painting I		3	ENGL 238	Children's Literature		3/1	PHYS 110	Intro to Astronomy/Lab
	3	ART 221	Painting II		3	ENGL 251	British Literature I		3/1	PHYS 211	College Physics I/Lab
	3	ART 230	Drawing II		3	ENGL 252	British Literature II		3/1	PHYS 212	College Physics II/Lab
	3	ART 250	Ceramics I		3	ENGL 261	American Literature I		4/1	PHYS 251	University Physics I/Lab
	3	ART 251	Ceramics II		3	ENGL 262	American Literature II		4/1	PHYS 252	University Physics II/Lab
	2	ART 265	Sculpture I		3	ENGL 278	Alternative Literature		2/1	PLSC 110	World Food Crops/Lab
	2	ART 266	Sculpture II		3/1	GEOG 121	Physical Geography/Lab		3	POLS 115	American Government
	3/1	ASTR 150	Meteorology/Lab		3/1	GEOL 102	Historical Geology/Lab		3	POLS 116	State & Local Government
	3	* BADM 202	Principles of Management		3/1	GEOL 105	Physical Geology/Lab		3	POLS 220	International Politics
	3	* BADM 210	Advertising I		3	GIS 105	Fundamentals of GIS		3	PSYC 111	Intro to Psychology
	3	* BADM 240	Sales		3	* GIS 107	GIS Applications		3	* PSYC 211	Intro to Behavior Modification
	3	* BADM 281	Organizational Behavior		3	HIST 101	Western Civilization I		3	PSYC 250	Developmental Psychology
	3	* BADM 282	Human Resource Mgmt		3	HIST 102	Western Civilization II		3	PSYC 270	Abnormal Psychology
	1	* BIOL 102	Intro to Aquarium Keeping		3	HIST 103	United States to 1877		3	RELS 120	Religion in America
	3	BIOL 109	Living World		3	HIST 104	United States since 1877		3	RELS 201	Life & Letters of Paul
	3/1	BIOL 111	Concepts of Biology/Lab		3	HIST 220	North Dakota History		3	RELS 203	World Religions
	3/1	BIOL 115	Human Structure & Function/Lab		3	HIST 222	History of the Western Frontier		3	RELS 220	Old Testament
	3	BIOL 124	Environmental Science		3	HIST 224	American Studies I		3	RELS 230	New Testament
	3/1	BIOL 126	Human Biology/Lab		3	HIST 225	American Studies II		3/1	SCNC 101	Physical Science I/Lab
	3/1	BIOL 150	General Biology I/Lab		1-3	* HIST 243	Historical Investigations				Biology & Chemistry
	3/1	BIOL 151	General Biology II/Lab		3	HUMS 210	Integrated Cultural Studies		3/1	SCNC 102	Physical Science II/Lab
	3/1	BIOL 220	Anatomy & Physiology I/Lab		1-4	HUMS 211	Integrated Cultural Excursion				Physics & Geology
	3/1	BIOL 221	Anatomy & Physiology II/Lab		2	HUMS 212	Integrated Cultural Enrichment		3/1	SCNC 103	Physical Science III/Lab
	3/1	BIOL 250	Survey-Tropical Biology/Lab		1	MUSC 137	Jazz Ensemble				Astronomy & Meteorology
	3/1	BIOL 251	Community Ecology/Lab		1	* MUSC 138	Percussion Ensemble				

3/1	BOT 170	Plant Form & Diversity/Lab	4	MATH 103	College Algebra	3	SOC 110	Intro to Sociology
3	* BUSN 120	Fundamentals of Business	3	MATH 104	Finite Math	3	SOC 115	Social Problems
3/1	CHEM 110	Survey of Chemistry/Lab	2	MATH 105	Trigonometry	3	SOC 220	Family
3/1	CHEM 112	Intro to Forensic Science/Lab	4	MATH 107	Pre-Calculus	3	SOC 221	Minority Relations
3/1	CHEM 114	Chemistry in Art/Lab	3	* MATH 137	Applied Algebra	3	SOC 235	Cultural Diversity
4/1	CHEM 115	Introductory Chemistry/Lab	3	MATH 146	Applied Calculus I	3	SOC 251	Gerontology
4/1	CHEM 116	Intro to Organic & Biochemistry/Lab	4	MATH 165	Calculus I	3	SOC 252	Criminology
4/1	CHEM 121	General Chemistry I/Lab	4	MATH 166	Calculus II	3	SOC 275	American Indian Studies
4/1	CHEM 122	General Chemistry II/Lab	3	* MATH 208	Discrete Mathematics	2/1 *	SOIL 210	Intro to Soil Science/Lab
4	* CIS 164	Networking Fundamentals	3	MATH 210	Elementary Statistics	4	SPAN 101	First Year Spanish I
3	CJ 201	Intro to Criminal Justice	4	* MATH 277	Math for Elementary Teachers I	4	SPAN 102	First Year Spanish II
3	COMM 110	Fund. of Public Speaking	3/1	MICR 202	Introductory Microbiology/Lab	4	SPAN 201	Second Year Spanish I
3	COMM 211	Oral Interpretation	3	MUSC 100	Music Appreciation	4	SPAN 202	Second Year Spanish II
3	* COMM 212	Interpersonal Communications	1	MUSC 117	Concert Choir	3	SWK 256	Development of Social Welfare
3	CSCI 101	Intro to Computers	1	MUSC 118	Chamber Choir	3	THEA 110	Intro to Theatre Arts
3	CSCI 122	Beginning Visual Basic	1	MUSC 121	String Ensemble	3	THEA 161	Acting I
4	CSCI 160	Computer Science I	1	MUSC 132	Wind Ensemble	3	THEA 261	Acting II
4	CSCI 161	Computer Science II	1	MUSC 133	Woodwind Ensemble I			
3	ECON 105	Elements of Economics	1	MUSC 134	Woodwind Ensemble II			
3	ECON 201	Principles of Microeconomics	1	MUSC 135	Brass Ensemble I			
3	ECON 202	Principles of Macroeconomics	1	MUSC 136	Brass Ensemble II			
Transfer Course			Transfer Course			Transfer Course		

Academic Skills Courses (ASC)

The following Academic Skills Courses (ASC), as well as Math 102, are pre-college courses 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	3	Math 102	Intermediate Algebra
Math 102 was offered for the last time at BSC in Spring 2012.					

Advisor: _____

Office: _____

Phone: _____

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