



Instrumentation & Control Technology

Program Certificate

Advising Worksheet* 2019-2020

Prescribed Technical Program Total	58
General Education Total	4
Total Degree Credits	62

Freshman Fall Semester

Prescribed Technical Program Requirements

ELEC	100/100L	Direct Current Analysis/Lab	5
ELEC	118/118L	Solid State Devices I/Lab	5
ELEC	114/114L	Digital Electronics I/Lab	4
Total Credits			14

Freshman Spring Semester

Prescribed Technical Program Requirements

ELEC	130/130L	Active Devices/Lab	5
ELEC	120/120L	AC Analysis/Lab	5
ELEC	115/115L	Digital Electronics II/Lab	4
Total Credits			14

Sophomore Fall Semester

Prescribed Technical Program Requirements

ICTL	205/205L	Mechanical Practices/Lab	5
ICTL	215/215L	Instrument Drawings & Documentation/Lab	5
ICTL	225/225L	Input & Output Devices/Lab	5
Total Credits			15

Sophomore Spring Semester

Prescribed Technical Program Requirements

ICTL	235/235L	Motors & Controllers/Lab	5
ICTL	245/245L	Controls/Lab	5
ICTL	255/255L	Automation Overview/Lab	5
Total Credits			15

General Education Requirements

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

1.		4
2.		
Total Credits		4

*This advising worksheet is unofficial and to be used for class planning purposes only. Please refer to 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 2019-2020 Catalog

Degree Checklist

- | | | | |
|--------------------------|--|--------------------------|---|
| <input type="checkbox"/> | Satisfied all degree seeking admission requirements | <input type="checkbox"/> | Cleared all college obligations |
| <input type="checkbox"/> | Completed a prescribed technical program | <input type="checkbox"/> | Filed an Application for Degree in the Academic Records Office immediately following enrollment in final semester |
| <input type="checkbox"/> | Earned at least 15 semester hours of institutional credit from BSC | | |
| <input type="checkbox"/> | Minimum of 2.00 GPA in a prescribed technical program | | Specific programs may require additional degree/program requirements; refer to your program. |
| <input type="checkbox"/> | Minimum of 2.00 institutional GPA (BSC only) | | |
| <input type="checkbox"/> | Minimum of 2.00 cumulative GPA (BSC + Transfer) | | |
| <input type="checkbox"/> | Earned a minimum of 4 semester hours of general education credit from two areas of study | | |

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. Area of study is based on course prefix.

Gr.	Cr.		Gr.	Cr.		Gr.	Cr.	
3	*	ACCT 200	3/1	BIOL 151	General Biology II/Lab	3	ENGL 125	Introduction to Professional Writing
3	*	ACCT 201	3/1	BIOL 170	General Zoology/Lab	3	ENGL 211	Introduction to Creative Writing
3		ANTH 170	3/1	BIOL 220	Anatomy and Physiology I/Lab	3	ENGL 221	Introduction to Drama
3		ANTH 171	3/1	BIOL 221	Anatomy and Physiology II/Lab	3	ENGL 222	Introduction to Poetry
3		ART 110	3/1	BIOL 250	Survey of Tropical Biology/Lab	3	ENGL 233	Fantasy and Science Fiction
3		ART 122	3/1	BOT 170	Plant Form and Diversity/Lab	3	ENGL 236	Women and Literature
3		ART 124	3	* BUSN 120	Fundamentals of Business	3	ENGL 238	Children's Literature
3		ART 130	3/1	CHEM 110	Survey of Chemistry/Lab	3	ENGL 251	British Literature I
3		ART 210	3/1	CHEM 112	Introduction to Forensic Science/Lab	3	ENGL 252	British Literature II
3		ART 211	3/1	CHEM 114	Chemistry in Art/Lab	3	ENGL 261	American Literature I
3		ART 220	4/1	CHEM 115	Introductory Chemistry/Lab	3	ENGL 262	American Literature II
3		ART 221	4/1	CHEM 116	Intro to Organic and Biochemistry/Lab	3	ENGL 278	Alternative Literature
3		ART 230	4/1	CHEM 121	General Chemistry I/Lab	3/1	GEOG 127	Physical Geography/Lab
3		ART 250	4/1	CHEM 122	General Chemistry II/Lab	3	GEOG 161	World Regional Geography
3		ART 251	3	* CIS 147	Principles of Information Security	3/1	GEOG 102	Historical Geography/Lab
2		ART 265	4	* CIS 164	Networking Fundamentals I	3/1	GEOG 105	Physical Geography/Lab
2		ART 266	3	* CIS 280	Cyber Ethics	3	GIS 105	Fundamentals of GIS
3/1		ASTR 150	3	CJ 201	Introduction to Criminal Justice	3	* GIS 107	GIS Applications
3	*	BADM 202	3	COMM 110	Fundamentals of Public Speaking	3	HIST 101	Western Civilization I
3	*	BADM 210	3	COMM 112	Understanding Media and Social Change	3	HIST 102	Western Civilization II
3	*	BADM 240	3	COMM 211	Oral Interpretation	3	HIST 103	United States to 1877
3	*	BADM 281	3	COMM 212	Interpersonal Communications	3	HIST 104	United States Since 1877
3	*	BADM 282	3	CSCI 101	Introduction to Computers	3	HIST 211	World Civilizations to 1500
1	*	BIOL 102	3	CSCI 122	Beginning Visual Basic	3	HIST 212	World Civilizations since 1500
3		BIOL 109	4	CSCI 160	Computer Science I	3	HIST 220	North Dakota History
3/1		BIOL 111	4	CSCI 161	Computer Science II	3	HIST 222	History of the Western Frontier
3/1		BIOL 115	3	ECON 105	Elements of Economics	3	HIST 224	American Studies I
3		BIOL 124	3	ECON 201	Principles of Microeconomics	3	HIST 225	American Studies II
3/1		BIOL 125	3	ECON 202	Principles of Macroeconomics	1-3	* HIST 243	Historical Investigations
3/1		BIOL 126	3	ENGL 110	College Composition I	3	HUMS 210	Integrated Cultural Studies
3/1		BIOL 150	3	ENGL 120	College Composition II			
1-4		HUMS 211	3	PHIL 101	Introduction to Philosophy	3/1	SCNC 102	Physical Science II/Lab (Physics & Geology)
2		HUMS 212	3	PHIL 210	Ethics			
4		MATH 103	3	PHIL 220	Introduction to Logic	3/1	SCNC 103	Physical Science III/Lab (Astronomy & Meteorology)
3		MATH 104	3	PHIL 250	Philosophy in Cinema			
2		MATH 105	3	PHIL 253	Environmental Ethics	3	SOC 110	Introduction to Sociology
4		MATH 107	3/1	PHYS 100	Concepts of Physics/Lab	3	SOC 115	Social Problems
3	*	MATH 137	3/1	PHYS 110	Introductory Astronomy/Lab	3	SOC 220	Family
3		MATH 146	4/1	PHYS 211	College Physics I/Lab	3	SOC 221	Minority Relations
4		MATH 165	4/1	PHYS 212	College Physics II/Lab	3	SOC 235	Cultural Diversity
4		MATH 166	4/1	PHYS 251	University Physics I/Lab	3	SOC 251	Gerontology
3	*	MATH 208	4/1	PHYS 252	University Physics II/Lab	3	SOC 252	Criminology
3		MATH 210	2/1	PLSC 110	World Food Crops/Lab	3	SOC 275	American Indian Studies
4	*	MATH 277	3	POLS 115	American Government	2/1	* SOIL 210	Introduction to Soil Science/Lab
3/1		MICR 202	3	POLS 116	State and Local Government	4	SPAN 101	First Year Spanish I
3		MUSC 100	3	POLS 220	International Politics	4	SPAN 102	First Year Spanish II
1		MUSC 117	3	PSYC 100	Human Relations in Organizations	4	SPAN 201	Second Year Spanish I
1		MUSC 118	3	PSYC 111	Introduction to Psychology	4	SPAN 202	Second Year Spanish II
1		MUSC 121	3	* PSYC 211	Introduction to Behavior Modification	3	SWK 256	Development of Social Welfare
1		MUSC 132	3	PSYC 250	Developmental Psychology	3	THEA 110	Introduction to Theatre Arts
1		MUSC 133	3	* PSYC 261	Psychology of Adjustment	3	THEA 161	Acting I
1		MUSC 134	3	PSYC 270	Abnormal Psychology	3	THEA 180	Dramatic Literature and Style I
1		MUSC 135	3	RELS 120	Religion in America	3	THEA 181	Dramatic Literature and Style II
1		MUSC 136	3	RELS 201	Life and Letters of Paul	3	THEA 261	Acting II
1		MUSC 137	3	RELS 203	World Religions			
1	*	MUSC 138	3	RELS 220	Old Testament			
1		MUSC 145	3	RELS 230	New Testament			
1		MUSC 146	3/1	SCNC 101	Physical Science I/Lab (Biology & Chemistry)			
3	*	NUTR 240						

Transfer Course

Transfer Course

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

Advisor: _____

Office: _____

Phone: _____

Email: _____

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