

Name: _____ Date: 3/20/2024

ID: _____



Instrumentation & Control Technology

Associate in Applied Science

Unofficial Advisement Worksheet

2024-2025 Academic Year

Prescribed Technical Program Total	58
General Education Total	16
Total Degree Credits	74

Semester I (Fall only)	Completed
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Prescribed Technical Program Requirements			
ELEC	100	Direct Current Analysis	4
ELEC	100L	Direct Current Analysis/Lab	1
ELEC	118	Solid State Devices I	4
ELEC	118L	Solid State Devices I/Lab	1
ELEC	114	Digital Electronics I	3
ELEC	114L	Digital Electronics I/Lab	1
Total Credits			14

Semester II (Spring only)	Completed
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Prescribed Technical Program Requirements			
ELEC	130	Active Devices	4
ELEC	130L	Active Devices/Lab	1
ELEC	120	AC Analysis	4
ELEC	120L	AC Analysis/Lab	1
ELEC	115	Digital Electronics II	3
ELEC	115L	Digital Electronics II/Lab	1
Total Credits			14

Semester III (Fall or Summer only)	Completed
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Prescribed Technical Program Requirements			
ICTL	205	Mechanical Practices (fall only)	4
ICTL	205L	Mechanical Practices/Lab (On campus only: summer)	1
ICTL	215	Instrument Drawings & Documentation (fall only)	4
ICTL	215L	Instrument Drawings & Documentation/Lab (On campus only: summer)	1
ICTL	225	Input & Output Devices (fall only)	4
ICTL	225L	Input & Output Devices/Lab (On campus only: summer)	1
Total Credits			15

Semester IV (Spring or Summer only)	Completed
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Prescribed Technical Program Requirements			
ICTL	235	Motors & Controllers (spring only)	4
ICTL	235L	Motors & Controllers/Lab (On campus only: summer)	1
ICTL	245	Controls (spring only)	4
ICTL	245L	Controls/Lab (On campus only: summer)	1
ICTL	255	Automation Overview (spring only)	4
ICTL	255L	Automation Overview/Lab (On campus only: summer)	1
Total Credits			15

General Education Requirements	Completed
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Arts & Humanities/Social & Behavioral Sciences	
1.	3
Business, Math, Science & Technology (Two areas of study required)	
MATH 137 Applied Algebra (or higher)	3
CIS 164 Networking Fundamentals (required)	4
Communications I	
ENGL 110 College Composition I (required)	3
Communications II (Select one course)	
ENGL 120 College Composition II (Prerequisite: ENGL 110)	3
ENGL 125 Intro to Professional Writing (Prerequisite: ENGL 110)	
COMM 110 Fundamentals of Public Speaking	
16	

Digital Literacy Requirement	
CSCI 101 Introduction to Computers*	3
CIS 147 Principles of Information Technology*	

*Courses approved to meet Digital Literacy Requirement of all degrees

*Course listed as both General Education and Digital Literacy may satisfy both requirements.

Associate of Applied Science General Education Requirements

Preferred General Education courses highlighted

WRITTEN OR ORAL COMMUNICATIONS

(3 Credits) - ENGL 110

Gr.	Cr.		
_____	3	ENGL 110	College Composition I

Transfer Course

(3 Credits) - ENGL 125, or COMM 110 (Select one)

Gr.	Cr.		
_____	3	ENGL 120	College Composition II
_____	3	ENGL 125	Introduction to Professional Writing
_____	3	COMM 110	Fundamentals of Public Speaking

Transfer Course

ARTS & HUMANITIES/SOCIAL & BEHAVIORAL SCIENCES

(3 Credits)

Gr.	Cr.		Gr.	Cr.		
_____	3	ANTH 170	_____	3	GEOG 161	World Regional Geography
_____	3	ANTH 171	_____	3	GEOG 262	Geography of North America
_____	3	ART 110	_____	3	HIST 101	Western Civilization I
_____	3	ART 122	_____	3	HIST 102	Western Civilization II
_____	3	ART 124	_____	3	HIST 103	United States to 1877
_____	3	ART 130	_____	3	HIST 104	United States Since 1877
_____	3	ART 210	_____	3	HIST 105	World Civilizations to 1500
_____	3	ART 211	_____	3	HIST 106	World Civilizations since 1500
_____	3	ART 220	_____	3	HIST 220	North Dakota History
_____	3	ART 221	_____	3	HIST 222	History of the Western Frontier
_____	3	ART 230	_____	3	HIST 224	American Studies I
_____	3	ART 250	_____	3	HIST 225	American Studies II
_____	3	ART 251	_____	3	HIST 226	Topics in History
_____	2	ART 265	_____	1-3	HIST 243	Historical Investigations
_____	2	ART 266	_____	3	HUMS 210	Integrated Cultural Studies
_____	3	CIS 280	_____	1-3	HUMS 211	Integrated Cultural Excursion
_____	3	CJ 201	_____	2	HUMS 212	Integrated Cultural Enrichment
_____	3	COMM 112	_____	3	MUSC 100	Music Appreciation
_____	3	COMM 211	_____	1	MUSC 117	Concert Choir
_____	3	COMM 212	_____	1	MUSC 118	Chamber Choir
_____	3	COMM 214	_____	1	MUSC 121	String Ensemble
_____	3	ECON 105	_____	1	MUSC 132	Wind Ensemble
_____	3	ECON 201	_____	1	MUSC 133	Woodwind Ensemble I
_____	3	ECON 202	_____	1	MUSC 134	Woodwind Ensemble II
_____	3	ENGL 211	_____	1	MUSC 135	Brass Ensemble I
_____	3	ENGL 222	_____	1	MUSC 136	Brass Ensemble II
_____	3	ENGL 233	_____	1	MUSC 137	Jazz Ensemble
_____	3	ENGL 236	_____	1	MUSC 138	Percussion Ensemble
_____	3	ENGL 238	_____	1	MUSC 145	Applied Music
_____	3	ENGL 251	_____	1	MUSC 146	Applied Music - Major
_____	3	ENGL 252	_____	3	MUSC 201	World Music
_____	3	ENGL 261	_____	3	PHIL 101	Introduction to Philosophy
_____	3	ENGL 262	_____	3	PHIL 210	Ethics
_____	3	ENGL 278	_____	3	PHIL 220	Introduction to Logic
_____			_____	3	PHIL 250	Philosophy in Cinema

BUSINESS, MATH, SCIENCE & TECHNOLOGY*(6 Credits) Must be satisfied with courses from two areas of study. Area of study is based on course prefix.*

Gr.	Cr.		Gr.	Cr.	
_____	3	ACCT 200	_____	3/1	CHEM 112
_____	3	ACCT 201	_____	3/1	CHEM 114
_____	3/1	ATSC 110	_____	_____	CHEM 115
_____	3	BADM 202	_____	_____	CHEM 116
_____	3	BADM 210	_____	_____	CHEM 121
_____	3	BADM 240	_____	_____	CHEM 122
_____	3	BADM 281	_____	_____	CIS 147
_____	3	BADM 282	_____	_____	CIS 164
_____	1	BIOL 102	_____	_____	CSCI 101
_____	3	BIOL 109	_____	3	CSCI 122
_____	3/1	BIOL 111	_____	4	CSCI 160
_____	3/1	BIOL 115	_____	4	CSCI 161
_____	3	BIOL 124	_____	3/1	GEOG 121
_____	3/1	BIOL 125	_____	3/1	GEOL 102
_____	3/1	BIOL 150	_____	3/1	GEOL 105
_____	3/1	BIOL 151	_____	3	GIS 105
_____	3/1	BIOL 170	_____	3	GIS 107
_____	3/1	BIOL 220	_____	4	MATH 103
_____	3/1	BIOL 221	_____	3	MATH 104
_____	3/1	BOT 170	_____	2	MATH 105
_____	3	BUSN 120	_____	4	MATH 107
_____	3/1	CHEM 110	_____	_____	
		Elements of Accounting I			Introduction to Forensic Science/Lab
		Elements of Accounting II			Chemistry in Art/Lab
		Meteorology/Lab			Introductory Chemistry/Lab
		Principles of Management			Intro to Organic and Biochemistry/Lab
		Advertising I			General Chemistry I/Lab
		Sales			General Chemistry II/Lab
		Organizational Behavior			Principles of Information Security
		Human Resource Management			Networking Fundamentals I
		Introduction to Aquarium Keeping			Introduction to Computers
		The Living World			Beginning Visual Basic
		Concepts of Biology/Lab			Computer Science I
		Concepts of Anatomy & Physiology/Lab			Computer Science II
		Environmental Science			Physical Geography/Lab
		Introduction to Ecology/Lab			Historical Geology/Lab
		General Biology I/Lab			Physical Geology/Lab
		General Biology II/Lab			Fundamentals of GIS
		General Zoology/Lab			GIS Applications
		Anatomy and Physiology I/Lab			College Algebra
		Anatomy and Physiology II/Lab			Finite Mathematics
		Plant Form and Diversity/Lab			Trigonometry
		Fundamentals of Business			Pre-Calculus
		Survey of Chemistry/Lab			

DIGITAL LITERACY*(3 Credits) Course listed as both general education and digital literacy may satisfy both requirements.*

Gr.	Cr.	
_____	3	CSCI 101 Introduction to Computers
_____	3	CIS 147 Principles of Information Security
_____		Bismarck State College Approved Training Course

*This advising worksheet is unofficial and to be used for class planning purposes only. Please refer to the official catalog at <http://catalog.bismarckstate.edu>



Completed _____ Needed _____

Completed _____ Needed _____

Gr.	Cr.		
_____	3	PHIL 253	Environmental Ethics
_____	3	POLS 115	American Government
_____	3	POLS 116	State and Local Government
_____	3	POLS 220	International Politics
_____	3	POLS 240	Political Ideologies
_____	3	PSYC 100	Human Relations In Organizations
_____	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	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
_____	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 Courses

Completed	Needed
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Gr.	Cr.	
_____	3	MATH 137 Applied Algebra
_____	3	MATH 146 Applied Calculus I
_____	4	MATH 165 Calculus I
_____	3	MATH 210 Elementary Statistics
_____	4	MATH 277 Mathematics for Elementary Teachers I
_____	3/1	MICR 202 Introductory Microbiology/Lab
_____	3	NUTR 240 Principles of Nutrition
_____	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
_____	3/1	SCNC 101 Physical Science I/Lab (Biology & Chemistry)
_____	3/1	SCNC 102 Physical Science II/Lab (Physics & Geology)
_____	3/1	SCNC 103 Physical Science III/Lab (Astronomy & Meteorology)
_____	2/1 *	SOIL 210 Introduction to Soil Science/Lab

Transfer Courses

Completed	Needed
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u/ for the complete listing of college degree requirements.