

## **Instrumentation & Control Technology**

Associate in Applied Science Advising Worksheet\* 2017-2018

Prescribed Technical Program Total	58
General Education Total	<u>16</u>
Total Degree Credits	74

Freshman Fall Semester					
Prescri	bed Technica	al 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	

Fresh	ıman Spri	ng Semester
Prescri	bed Technica	al Program Requirements
ELEC	130/130L	Active Devices/Lab
ELEC	120/120L	AC Analysis/Lab

ELEC 115/115L Digital Electronics II/Lab
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Total Credits 14

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Sophomore Fall Semester					
Prescri	ibed Technica	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

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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**

Arts & Humanities/Social & Behavioral Science

1.			3
Busines	s, Math, Sci	ence & Technology (Two areas of study required.)	
CIS	164	Networking Fundamentals I (Required)	4
MATH	137	Applied Algebra or higher (Required)	3
Сотти	nications I		
ENGL	110	College Composition I (Required)	3
Сотти	nications II	(Select one course.)	
ENGL	120	College Composition II	
ENGL	125	Introduction to Professional Writing	3
сомм	110	Fundamentals of Public Speaking	
		Total Credits	16

\*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.

# Associate in Applied Science (AAS) 2017-2018 Catalog

Earned a minimum of 3 credits in ENGL 110

Advisor		
Office:		
Phone:		
Earned at least 15 seme	ster hours of institutional credit from BSC	
Minimum of 2.00 institu	tional GPA (BSC only)	

Needed

Minimum of 2.00 cumulative GPA (BSC + Transfer)

Minimum of 2.00 GPA in a prescribed technical program

Cleared all college obligations

Declared program of study is degree seeking

Filed an Application for Degree in the Academic Records Office

Completed

-Academic Skills Courses (ASC) do not count toward graduation

Earned a minimum of 3 credits in ENGL 120, ENGL 125 or COMM 110

Earned a minimum of 6 credits in Business, Math, Science & Technology

Completed prescribed technical program requirements

Earned a minimum of 3 credits in Arts & Humanities/Social & Behavioral Sciences

Legend

(\*) Course not approved as GERTA

## General Education Requirements Category I: COMMUNICATIONS

Earned a minimum of 60 credits

Communica	ations I				
(3 Credits) - E	ENGL 110				
Gr. Cr. 3	ENGL 110	College Composition I			
Transfer Course					

#### Communications II

**Degree Checklist** 

Credits

(3 Credits) -E	NGL 120, 125,	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	e	

## **General Education Requirements Continued**

#### Category II: ARTS 8 (3 Credits)

World Regional Geography

: /	ARTS & HI	JMANITES/SOCIAL & BEHAVIOR	AL S	CIEN	CES		Co	mpleted	Needed
			Gr.	Cr.			Gr. Cr.		
A	ART 110	Introduction to the Visual Arts		3	HIST 101	Western Civilization I	3	POLS 115	American Government
A	ART 122	Two-Dimensional Design		3	HIST 102	Western Civilization II	3	POLS 116	State and Local Government
A	ART 124	Three-Dimensional Design		3	HIST 103	United States to 1877	3	POLS 220	International Politics
A	ART 130	Drawing I		3	HIST 104	United States since 1877	3	PSYC 111	Introduction to Psychology
A	ART 210	Art History I		3	HIST 211	World Civilizations to 1500	3	* PSYC 211	Introduction to Behavior Modification
A	ART 211	Art History II		3	HIST 212	World Civilizations since 1500	3	PSYC 250	Developmental Psychology
A	ART 220	Painting I		3	HIST 220	North Dakota History	3	* PSYC 261	Psychology of Adjustment
A	ART 221	Painting II		3	HIST 222	History of the Western Frontier	3	PSYC 270	Abnormal Psychology
A	ART 230	Drawing II		3	HIST 224	American Studies I	3	<b>RELS 120</b>	Religion in America
A	ART 250	Ceramics I		3	HIST 225	American Studies II	3	<b>RELS 201</b>	Life and Letters of Paul
A	ART 251	Ceramics II		1-3	* HIST 243	Historical Investigations	3	<b>RELS 203</b>	World Religions
A	ART 265	Sculpture I		3	HUMS 210	Integrated Cultural Studies	3	RELS 220	Old Testament
A	ART 266	Sculpture II		1-4	HUMS 211	Integrated Cultural Excursion	3	<b>RELS 230</b>	New Testament
(	CJ 201	Introduction to Criminal Justice		2	HUMS 212	Integrated Cultural Enrichment	3	SOC 110	Introduction to Sociology
(	COMM 112	Understanding Media and Social Change		3	MUSC 100	Music Appreciation	3	SOC 115	Social Problems
(	COMM 211	Oral Interpretation		1	MUSC 117	Concert Choir	3	SOC 220	Family
(	COMM 212	Interpersonal Communications		1	MUSC 118	Chamber Choir	3	SOC 221	Minority Relations
E	ECON 105	Elements of Economics		1	MUSC 121	String Ensemble	3	SOC 235	Cultural Diversity
E	ECON 201	Principles of Microeconomics		1	MUSC 132	Wind Ensemble	3	SOC 251	Gerontology
E	ECON 202	Principles of Macroeconomics		1	MUSC 133	Woodwind Ensemble I	3 3 3 4 4 4 4 4 3 3	SOC 252	Criminology
E	ENGL 211	Introduction to Creative Writing		1	MUSC 134	Woodwind Ensemble II	3	SOC 275	American Indian Studies
E	ENGL 221	Introduction to Drama		1	MUSC 135	Brass Ensemble I	4	SPAN 101	First Year Spanish I
E	ENGL 222	Introduction to Poetry		1	MUSC 136	Brass Ensemble II	4	SPAN 102	First Year Spanish II
E	ENGL 233	Fantasy and Science Fiction		1	MUSC 137	Jazz Ensemble	4	SPAN 201	Second Year Spanish I
E	ENGL 236	Women and Literature		1	* MUSC 138	Percussion Ensemble	4	SPAN 202	Second Year Spanish II
E	ENGL 238	Children's Literature		1	MUSC 145	Applied Music	3	SWK 256	Development of Social Welfare
E	ENGL 251	British Literature I		1	MUSC 146	Applied Music - Major	3	THEA 110	Introduction to Theatre Arts
E	ENGL 252	British Literature II		3	PHIL 101	Introduction to Philosophy	3	THEA 161	Acting I
E	ENGL 261	American Literature I		3	PHIL 210	Ethics	3	THEA 261	Acting II
E	ENGL 262	American Literature II		3	PHIL 220	Introduction to Logic			
E	ENGL 278	Alternative Literature		3	PHIL 250	Philosophy in Cinema			
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Environmental Ethics

Transfer Courses

Gr. Cr. 3

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GEOG 161

Transfer Courses

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PHIL 253

Transfer Courses

## General Education Requirements Continued

#### Category III: BUSINESS, MATH, SCIENCE & TECHNOLOGY

(6 Credits) Must be satisfied with courses from two areas of study. Area of study is based on course prefix.

3   * ACCT 200   Elements of Accounting I   3/1   CHEM 110   Survey of Chemistry/Lab   3   MATH 146   Applied Calculus I     3   * ACCT 201   Elements of Accounting II   3/1   CHEM 112   Introduction to Forensis Science/Lab   4   MATH 165   Calculus I     3/1   ASTR 150   Meterology/Lab   3/1   CHEM 112   Introduction to Forensis Science/Lab   4   MATH 166   Calculus II     3/1   ASTR 150   Meterology/Lab   3/1   CHEM 115   Introductory Chemistry/Lab   3   * MATH 208   Discrete Mathematics     3   * BADM 200   Advertising I   4/1   CHEM 116   Introductory Chemistry/Lab   3   MATH 208   Discrete Mathematics     3   * BADM 200   Advertising I   4/1   CHEM 122   General Chemistry I/Lab   3/1   MATH 207   Math for Elementary Tementary	Cr.		Gr. Cr.			Gr. Cr.		
3   * ACCT 201   Elements of Accounting II   3/1   CHEM 112   Introduction to Forensic Science/Lab   4   MATH 165   Calculus I     3/1   ASTR 150   Meteorology/Lab   3/1   CHEM 114   Chemistry in Art/Lab   4   MATH 166   Calculus I     3   * BADM 202   Principles of Management   4/1   CHEM 115   Introductory Chemistry/Lab   3   * MATH 208   Discrete Mathematics     3   * BADM 210   Advertising I   4/1   CHEM 115   Introductory Chemistry/Lab   3   * MATH 208   Discrete Mathematics     3   * BADM 240   Sales   4/1   CHEM 112   General Chemistry I/Lab   3/1   MICR 202   Introductory Microbiol     3   * BADM 281   Organizational Behavior   4/1   CHEM 122   General Chemistry I/Lab   3/1   MICR 202   Introductory Microbiol     3   * BADM 282   Human Resource Management   4   * CIS 164   Networking Fundamentals I   3   * NIT 240   Principles of Nutrition     3   BIOL 109   The Living World   3   CSCI 101   Introduction to Computer 3   3/1   PHYS 100   College Physic		CT 200 Elements of Accounting I		CHEM 110	Survey of Chemistry/Lab		MATH 146	Applied Calculus I
3/1ASTR 150Meteorology/Lab3/1CHEM 114Chemistry in Art/Lab4MATH 166Calculus II3* BADM 202Principles of Management4/1CHEM 115Introductory Chemistry/Lab3* MATH 208Discrete Mathematics3* BADM 210Advertising I4/1CHEM 116Intro to Organic and Biochemistry/Lab3* MATH 208Elementary Statistics3* BADM 240Sales4/1CHEM 121General Chemistry I/Lab4* MATH 277Math for Elementary Te3* BADM 281Organizational Behavior4/1CHEM 122General Chemistry I/Lab3/1MICR 202Introductory Microbiolo3* BADM 282Human Resource Management4* CIS 164Networking Fundamentals I3* NUTR 240Principles of Nutrition1* BIOL 102Introduction to Aquarium Keeping3CSCI 101Introduction to Computers3/1PHYS 110Introductory Astronomy3/1BIOL 109The Living World3CSCI 120Beginning Visual Basic3/1PHYS 211College Physics I/Lab3BIOL 111Concepts of Biology/Lab4CSCI 160Computer Science I3/1PHYS 211College Physics I/Lab3/1BIOL 125Introduction to Ecology/Lab3/1GEOL 102Historical Geology/Lab4/1PHYS 252University Physics I/Lab3/1BIOL 126Human Biology/Lab3/1GEOL 102Historical Geology/Lab3/1SCNC 101Physical Scienc	3 * ACC	CT 201 Elements of Accounting II		CHEM 112	Introduction to Forensic Science/Lab	4	MATH 165	Calculus I
3*BADM 210Advertising I4/1CHEM 116Intro to Organic and Biochemistry/Lab3MATH 210Elementary Statistics3*BADM 240Sales4/1CHEM 121General Chemistry I/Lab4/1*MATH 277Math for Elementary Statistics3*BADM 281Organizational Behavior4/1CHEM 121General Chemistry II/Lab3/1MICR 202Introductory Microbiold3*BADM 282Human Resource Management4*CIS 164Networking Fundamentals I3*NUTroductory Microbiold1*BIOL 102Introduction to Aquarium Keeping3CSCI 101Introduction to Computers3/1PHYS 100Concepts of Physics/Lat3/1BIOL 102Introduction to Aquarium Keeping3CSCI 160Computer Science I3/1PHYS 110Introductory Astronomy3/1BIOL 115Human Structure and Function/Lab4CSCI 161Computer Science II3/1PHYS 211College Physics I/Lab3/1BIOL 124Environmental Science3/1GEOG 121Physical Geology/Lab4/1PHYS 252University Physics I/Lab3/1BIOL 125Introduction to Ecology/Lab3/1GEOL 102Historical Geology/Lab4/1PHYS 252University Physics I/Lab3/1BIOL 126Human Biology I/Lab3/1GEOL 102Historical Geology/Lab3/1SCNC 101Physical Science I/Lab3/1BIOL 126Human Biology I/Lab3	3/1 ASTI	R 150 Meteorology/Lab	3/1	CHEM 114	Chemistry in Art/Lab	4	MATH 166	Calculus II
3*BADM 240Sales4/1CHEM 121General Chemistry I/Lab4*MATH 277Math for Elementary Te3*BADM 281Organizational Behavior4/1CHEM 122General Chemistry I/Lab3/1MICR 202Introductory Microbiolo3*BADM 282Human Resource Management4*CIS 164Networking Fundamentals I3*NUTR 240Principles of Nutrition1*BIOL 109The Living World3CSCI 101Introduction to Computers3/1PHYS 1100Concepts of Physics/Lat3/1BIOL 111Concepts of Biology/Lab4CSCI 160Computer Science I3/1PHYS 211College Physics I/Lab3/1BIOL 124Environmental Science3/1GEOL 102Historical Geography/Lab4/1PHYS 251University Physics I/Lab3/1BIOL 126Human Biology/Lab3/1GEOL 102Historical Geology/Lab4/1PHYS 251University Physics I/Lab3/1BIOL 126Human Biology/Lab3/1GEOL 105Physical Geology/Lab2/1PHYS 252University Physics I/Lab3/1BIOL 126Human Biology I/Lab3GIS 105Fundamentals of GIS3/1SCNC 101Physical Science I/Lab3/1BIOL 220Anatomy and Physiology I/Lab3* GIS 107GIS Applications3/1SCNC 102Physical Science I/Lab3/1BIOL 220Anatomy and Physiology I/Lab3* GIS 107GIS Applications	3 * BAD	DM 202 Principles of Management	4/1	CHEM 115	Introductory Chemistry/Lab	3 *	MATH 208	Discrete Mathematics
3*BADM 281Organizational Behavior4/1CHEM 122General Chemistry II/Lab3/1MICR 202Introductory Microbiols3*BADM 282Human Resource Management4*CIS 164Networking Fundamentals I3*NUTR 240Principles of Nutrition1*BIOL 102Introduction to Aquarium Keeping3CSCI 101Introduction to Computers3/1PHYS 100Concepts of Physics/Lab3BIOL 109The Living World3CSCI 122Beginning Visual Basic3/1PHYS 110Introductory Astronomy3/1BIOL 111Concepts of Biology/Lab4CSCI 160Computer Science I3/1PHYS 211College Physics I/Lab3/1BIOL 124Environmental Science3/1GEOG 121Physical Geography/Lab4/1PHYS 252University Physics I/Lab3/1BIOL 125Introduction to Ecology/Lab3/1GEOL 102Historical Geology/Lab4/1PHYS 252University Physics I/Lab3/1BIOL 126Human Biology I/Lab3GIS 105Fundamentals of GIS3/1SCNC 101Physical Science I/Lab3/1BIOL 151General Biology I/Lab3* GIS 107GIS Applications6(Biology & Chemistry)3/1BIOL 220Anatomy and Physiology I/Lab3MATH 103College Algebra3/1SCNC 102Physical Science II/Lab3/1BIOL 220Anatomy and Physiology I/Lab3MATH 104Finite Mathematics(Phys	3 * BAD	DM 210 Advertising I	4/1	CHEM 116	Intro to Organic and Biochemistry/Lab	3	MATH 210	Elementary Statistics
3*BADM 282Human Resource Management4*CIS 164Networking Fundamentals I3*NUTR 240Principles of Nutrition1*BIOL 102Introduction to Aquarium Keeping3CSCI 101Introduction to Computers3/1PHYS 100Concepts of Physics/Lat3BIOL 109The Living World3CSCI 122Beginning Visual Basic3/1PHYS 110Introductory Astronomy3/1BIOL 111Concepts of Biology/Lab4CSCI 160Computer Science I3/1PHYS 211College Physics I/Lab3/1BIOL 124Environmental Science3/1GEOG 121Physical Geography/Lab4/1PHYS 251University Physics I/Lab3/1BIOL 125Introduction to Ecology/Lab3/1GEOL 102Historical Geology/Lab4/1PHYS 252University Physics I/Lab3/1BIOL 126Human Biology/Lab3/1GEOL 105Physical Geology/Lab2/1PLSC 110World Food Crops/Lab3/1BIOL 150General Biology I/Lab3GIS 105Fundamentals of GIS3/1SCNC 101Physical Science I/Lab3/1BIOL 220Anatomy and Physiology I/Lab3MATH 103College Algebra3/1SCNC 102Physical Science II/Lab3/1BIOL 220Anatomy and Physiology I/Lab3MATH 105Trigonometry3/1SCNC 103Physical Science II/Lab3/1BIOL 220Anatomy and Physiology I/Lab4MATH 105Trigonometry3/1 <td>3 * BAD</td> <td>DM 240 Sales</td> <td>4/1</td> <td>CHEM 121</td> <td>General Chemistry I/Lab</td> <td>4 *</td> <td>MATH 277</td> <td>Math for Elementary Teachers I</td>	3 * BAD	DM 240 Sales	4/1	CHEM 121	General Chemistry I/Lab	4 *	MATH 277	Math for Elementary Teachers I
1*BIOL 102Introduction to Aquarium Keeping3CSCI 101Introduction to Computers3/1PHYS 100Concepts of Physics/Lab3BIOL 109The Living World3CSCI 122Beginning Visual Basic3/1PHYS 110Introductory Astronomy3/1BIOL 111Concepts of Biology/Lab4CSCI 160Computer Science I3/1PHYS 211College Physics I/Lab3/1BIOL 115Human Structure and Function/Lab4CSCI 161Computer Science II3/1PHYS 212College Physics I/Lab3/1BIOL 124Environmental Science3/1GEOG 121Physical Geography/Lab4/1PHYS 252University Physics I/Lab3/1BIOL 125Introduction to Ecology/Lab3/1GEOL 102Historical Geology/Lab4/1PHYS 252University Physics I/Lab3/1BIOL 126Human Biology/Lab3/1GEOL 105Physical Geology/Lab2/1PLSC 110World Food Crops/Lab3/1BIOL 150General Biology I/Lab3GIS 105Fundamentals of GIS3/1SCNC 101Physical Science I/Lab3/1BIOL 220Anatomy and Physiology I/Lab3* GIS 107GIS Applications(Biology & Chemistry)3/1BIOL 221Anatomy and Physiology I/Lab3MATH 103College Algebra3/1SCNC 102Physical Science II/Lab3/1BIOL 220Anatomy and Physiology I/Lab3MATH 105Trigonometry3/1SCNC 103Physical Science II/Lab </td <td>3 * BAD</td> <td>DM 281 Organizational Behavior</td> <td>4/1</td> <td>CHEM 122</td> <td>General Chemistry II/Lab</td> <td>3/1</td> <td>MICR 202</td> <td>Introductory Microbiology/Lab</td>	3 * BAD	DM 281 Organizational Behavior	4/1	CHEM 122	General Chemistry II/Lab	3/1	MICR 202	Introductory Microbiology/Lab
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3/1BIOL 111Concepts of Biology/Lab4CSCI 160Computer Science I3/1PHYS 211College Physics I/Lab3/1BIOL 115Human Structure and Function/Lab4CSCI 161Computer Science II3/1PHYS 212College Physics I/Lab3BIOL 124Environmental Science3/1GEOG 121Physical Geography/Lab4/1PHYS 251University Physics I/Lab3/1BIOL 125Introduction to Ecology/Lab3/1GEOL 102Historical Geology/Lab4/1PHYS 252University Physics I/Lab3/1BIOL 126Human Biology/Lab3/1GEOL 105Physical Geology/Lab2/1PLSC 110World Food Crops/Lab3/1BIOL 150General Biology I/Lab3GIS 105Fundamentals of GIS3/1SCNC 101Physical Science I/Lab3/1BIOL 220Anatomy and Physiology I/Lab3MATH 103College Algebra3/1SCNC 102Physical Science II/Lab3/1BIOL 250Survey of Tropical Biology/Lab2MATH 105Trigonometry3/1SCNC 103Physical Science II/Lab3/1BOT 170Plant Form and Diversity/Lab4MATH 107Pre-Calculus(Astronomy & Meteor	1 * BIOI	L 102 Introduction to Aquarium Keeping	3	CSCI 101	Introduction to Computers	3/1	PHYS 100	Concepts of Physics/Lab
3/1BIOL 115Human Structure and Function/Lab4CSCI 161Computer Science II3/1PHYS 212College Physics I/Lab3BIOL 124Environmental Science3/1GEOG 121Physical Geography/Lab4/1PHYS 251University Physics I/Lab3/1BIOL 125Introduction to Ecology/Lab3/1GEOL 102Historical Geology/Lab4/1PHYS 252University Physics I/Lab3/1BIOL 126Human Biology/Lab3/1GEOL 102Historical Geology/Lab2/1PLSC 110World Food Crops/Lab3/1BIOL 150General Biology I/Lab3GIS 105Fundamentals of GIS3/1SCNC 101Physical Science I/Lab3/1BIOL 151General Biology I/Lab3 <td*gis 107<="" td="">GIS Applications3/1SCNC 102Physical Science II/Lab3/1BIOL 220Anatomy and Physiology I/Lab3MATH 103College Algebra3/1SCNC 102Physical Science II/Lab3/1BIOL 250Survey of Tropical Biology/Lab2MATH 105Trigonometry3/1SCNC 103Physical Science II/Lab3/1BOT 170Plant Form and Diversity/Lab4MATH 107Pre-Calculus(Astronomy &amp; Meteor)</td*gis>	3 BIOI	L 109 The Living World	3	CSCI 122	Beginning Visual Basic	3/1	PHYS 110	Introductory Astronomy/Lab
3   BIOL 124   Environmental Science   3/1   GEOG 121   Physical Geography/Lab   4/1   PHYS 251   University Physics I/Lab     3/1   BIOL 125   Introduction to Ecology/Lab   3/1   GEOL 102   Historical Geology/Lab   4/1   PHYS 251   University Physics I/Lab     3/1   BIOL 125   Introduction to Ecology/Lab   3/1   GEOL 102   Historical Geology/Lab   4/1   PHYS 252   University Physics I/Lab     3/1   BIOL 126   Human Biology/Lab   3/1   GEOL 105   Physical Geology/Lab   2/1   PLSC 110   World Food Crops/Lab     3/1   BIOL 150   General Biology I/Lab   3   GIS 105   Fundamentals of GIS   3/1   SCNC 101   Physical Science I/Lab     3/1   BIOL 220   Anatomy and Physiology I/Lab   3   * GIS 107   GIS Applications   3/1   SCNC 102   Physical Science II/Lab     3/1   BIOL 220   Anatomy and Physiology I/Lab   3   MATH 103   College Algebra   3/1   SCNC 102   Physical Science II/Lab     3/1   BIOL 250   Survey of Tropical Biology/Lab   2   MATH 104   Finite Mathematics   (Physical Science III/	3/1 BIOI	L 111 Concepts of Biology/Lab	4	CSCI 160	Computer Science I	3/1	PHYS 211	College Physics I/Lab
3/1BIOL 125Introduction to Ecology/Lab3/1GEOL 102Historical Geology/Lab4/1PHYS 252University Physics II/Lat3/1BIOL 126Human Biology/Lab3/1GEOL 105Physical Geology/Lab2/1PLSC 110World Food Crops/Lab3/1BIOL 150General Biology I/Lab3GIS 105Fundamentals of GIS3/1SCNC 101Physical Science I/Lab3/1BIOL 151General Biology I/Lab3* GIS 107GIS Applications(Biology & Chemistry)3/1BIOL 220Anatomy and Physiology I/Lab4MATH 103College Algebra3/1SCNC 102Physical Science II/Lab3/1BIOL 221Anatomy and Physiology I/Lab3MATH 104Finite Mathematics(Physica Science II/Lab(Physica Science II/Lab3/1BIOL 250Survey of Tropical Biology/Lab2MATH 105Trigonometry3/1SCNC 103Physical Science II/Lab3/1BOT 170Plant Form and Diversity/Lab4MATH 107Pre-Calculus(Astronomy & Meteor	3/1 BIOI	L 115 Human Structure and Function/Lab	4	CSCI 161	Computer Science II	3/1	PHYS 212	College Physics II/Lab
3/1   BIOL 126   Human Biology/Lab   3/1   GEOL 105   Physical Geology/Lab   2/1   PLSC 110   World Food Crops/Lab     3/1   BIOL 150   General Biology I/Lab   3   GIS 105   Fundamentals of GIS   3/1   SCNC 101   Physical Science I/Lab     3/1   BIOL 151   General Biology I/Lab   3   * GIS 107   GIS Applications   (Biology & Chemistry)     3/1   BIOL 220   Anatomy and Physiology I/Lab   4   MATH 103   College Algebra   3/1   SCNC 102   Physical Science II/Lab     3/1   BIOL 250   Survey of Tropical Biology/Lab   2   MATH 105   Trigonometry   3/1   SCNC 103   Physical Science II/Lab     3/1   BIOL 250   Survey of Tropical Biology/Lab   2   MATH 105   Trigonometry   3/1   SCNC 103   Physical Science II/Lab     3/1   BOT 170   Plant Form and Diversity/Lab   4   MATH 107   Pre-Calculus   3/1   SCNC 103   Physical Science II/Lab	3 BIOI	L 124 Environmental Science	3/1	GEOG 121	Physical Geography/Lab	4/1	PHYS 251	University Physics I/Lab
3/1BIOL 150General Biology I/Lab3GIS 105Fundamentals of GIS3/1SCNC 101Physical Science I/Lab3/1BIOL 151General Biology II/Lab3* GIS 107GIS Applications(Biology & Chemistry)3/1BIOL 220Anatomy and Physiology I/Lab4MATH 103College Algebra3/1SCNC 102Physical Science II/Lab3/1BIOL 221Anatomy and Physiology II/Lab3MATH 104Finite Mathematics(Physics & Geology)3/1BIOL 250Survey of Tropical Biology/Lab2MATH 105Trigonometry3/1SCNC 103Physical Science III/Lab3/1BOT 170Plant Form and Diversity/Lab4MATH 107Pre-Calculus(Astronomy & Meteor)	3/1 BIOI	L 125 Introduction to Ecology/Lab	3/1	GEOL 102	Historical Geology/Lab	4/1	PHYS 252	University Physics II/Lab
3/1BIOL 151General Biology II/Lab3* GIS 107GIS Applications(Biology & Chemistry)3/1BIOL 220Anatomy and Physiology I/Lab4MATH 103College Algebra3/1SCNC 102Physical Science II/Lab3/1BIOL 221Anatomy and Physiology II/Lab3MATH 104Finite Mathematics(Physics & Geology)3/1BIOL 250Survey of Tropical Biology/Lab2MATH 105Trigonometry3/1SCNC 103Physical Science II/Lab3/1BOT 170Plant Form and Diversity/Lab4MATH 107Pre-Calculus(Astronomy & Meteor	3/1 BIOI	L 126 Human Biology/Lab	3/1	GEOL 105	Physical Geology/Lab	2/1	PLSC 110	World Food Crops/Lab
3/1BIOL 220Anatomy and Physiology I/Lab4MATH 103College Algebra3/1SCNC 102Physical Science II/Lab3/1BIOL 221Anatomy and Physiology I/Lab3MATH 104Finite Mathematics(Physics & Geology)3/1BIOL 250Survey of Tropical Biology/Lab2MATH 105Trigonometry3/1SCNC 103Physical Science II/Lab3/1BOT 170Plant Form and Diversity/Lab4MATH 107Pre-Calculus(Astronomy & Meteor	3/1 BIOI	L 150 General Biology I/Lab	3	GIS 105	Fundamentals of GIS	3/1	SCNC 101	Physical Science I/Lab
3/1   BIOL 221   Anatomy and Physiology II/Lab   3   MATH 104   Finite Mathematics   (Physics & Geology)     3/1   BIOL 250   Survey of Tropical Biology/Lab   2   MATH 105   Trigonometry   3/1   SCNC 103   Physical Science III/Lab     3/1   BOT 170   Plant Form and Diversity/Lab   4   MATH 107   Pre-Calculus   (Astronomy & Meteor	3/1 BIOI	L 151 General Biology II/Lab	3 *	GIS 107	GIS Applications			(Biology & Chemistry)
3/1 BIOL 250 Survey of Tropical Biology/Lab 2 MATH 105 Trigonometry 3/1 SCNC 103 Physical Science III/Lab   3/1 BOT 170 Plant Form and Diversity/Lab 4 MATH 107 Pre-Calculus (Astronomy & Meteor	3/1 BIOI	L 220 Anatomy and Physiology I/Lab	4	MATH 103	College Algebra	3/1	SCNC 102	Physical Science II/Lab
3/1 BOT 170 Plant Form and Diversity/Lab 4 MATH 107 Pre-Calculus (Astronomy & Meteor	3/1 BIOI	L 221 Anatomy and Physiology II/Lab	3	MATH 104	Finite Mathematics			(Physics & Geology)
	3/1 BIOI	L 250 Survey of Tropical Biology/Lab	2	MATH 105	Trigonometry	3/1	SCNC 103	Physical Science III/Lab
3 * BUSN 120 Fundamentals of Business 3 * MATH 137 Applied Algebra 2/1 * SOIL 210 Introduction to Soil Scie	3/1 BOT	T 170 Plant Form and Diversity/Lab	4	MATH 107	Pre-Calculus			(Astronomy & Meteorology)
	3 * BUS	SN 120 Fundamentals of Business	3 *	MATH 137	Applied Algebra	2/1 *	SOIL 210	Introduction to Soil Science/Lab
nsfer Courses Transfer Courses Transfer Courses	fer Courses		Transfer Cours	es		Transfer Cou	rses	

Completed\_

Needed

## 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 an Associate in Applied Science degree.

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

\*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/ for the complete listing of college degree requirements.