



# Data Analytics Technician - 3 Year Plan

## Associate in Applied Science

Advising Worksheet\* 2019-2020

Prescribed Technical Program	47
General Education	15
Elective Credit	0-3
<b>Total Degree Credits</b>	<b>62-65</b>

### Semester I

<b>Prescribed Technical Program Requirements</b>			
CIS	102	Computer Software Applications-Word <sup>1</sup>	3
<b>General Education Course</b>			
<i>Business, Math, Science &amp; Technology</i>			
CSCI	101	Introduction to Computers (Required)	3
<b>Academic Skills Courses</b>			
ASC	082	Effective Reading <sup>2</sup>	2
ASC	94	College Writing Prep I <sup>2</sup>	2
ASC	91	Algebra Prep I <sup>2</sup>	2
ASC	92	Algebra Prep II <sup>2</sup>	2
<b>Total Credits</b>			<b>14</b>

### Semester III

<b>Prescribed Technical Program Requirements</b>			
ACCT	201	Elements of Accounting II	3
CIS	154	Web Design Theory	3
MATH	103	College Algebra	4
<b>General Education Course</b>			
<i>Communications I</i>			
ENGL	110	College Composition I (Required)	3
<b>Total Credits</b>			<b>13</b>

### Semester V

<b>Prescribed Technical Program Requirements</b>			
CIS	147	Principles of Information Security	3
CSCI	160	Computer Science I	4
<b>General Education Course</b>			
<i>Business, Math, Science &amp; Technology</i>			
MATH	210	Elementary Statistics (Required)	3
<b>Electives (Optional)<sup>3</sup></b>			
1.			0-3
<b>Total Credits</b>			<b>10-13</b>

### Semester II

<b>Prescribed Technical Program Requirements</b>			
ACCT	200	Elements of Accounting I	3
CIS	105	Microcomputer Spreadsheets <sup>1</sup>	3
CIS	185	Introduction to Programming	3
<b>Academic Skills Courses</b>			
ASC	95	College Writing Prep II <sup>2</sup>	2
ASC	96	College Writing Prep III <sup>2</sup>	2
ASC	93	Algebra Prep III <sup>2</sup>	2
<b>Total Credits</b>			<b>15</b>

### Semester IV

<b>Prescribed Technical Program Requirements</b>			
CIS	104	Microcomputer Database <sup>1</sup>	3
ECON	201	Principles of Microeconomics	3
MATH	146	Applied Calculus I	3
<b>General Education Course</b>			
<i>Communications II</i>			
ENGL	120	College Composition II (Required)	3
<b>Total Credits</b>			<b>12</b>

### Semester VI

<b>Prescribed Technical Program Requirements</b>			
CIS	204	Database Design and Structured Query Language (SQL)	3
CIS	241	Digital Forensics Fundamentals	3
CIS	252	XML	3
<b>General Education Course</b>			
<i>Arts &amp; Humanities/Social &amp; Behavioral Sciences</i>			
ECON	202	Principles of Macroeconomics (Required)	3
<b>Total Credits</b>			<b>12</b>

<sup>1</sup> CIS 102, CIS 104 and CIS 105 may be challenged.

<sup>2</sup> Academic Skills Courses: Enrollment into these courses is based on placement testing (<https://bismarckstate.edu/academics/academicresources/academicstesting/placementtesting>).

Credits from these classes do not count towards earning a degree. The credit total shown (76-79) includes the 14 credits of ASC coursework. Actual degree credits are 62-65.

<sup>3</sup> Financial Aid or scholarship awards can be affected by credit load. Please consult your advisor in planning your course schedule.

\*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.

# Associate in Applied Science (AAS) 2019-2020 Catalog

Advisor: \_\_\_\_\_  
 Office: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Email: \_\_\_\_\_

## Degree Checklist

### Credits

- \_\_\_\_\_ Earned a minimum of 3 credits in ENGL 110
- \_\_\_\_\_ Earned a minimum of 3 credits in ENGL 120, ENGL 125 or COMM 110 <sup>1</sup>
- \_\_\_\_\_ Earned a minimum of 3 credits in Arts & Humanities/Social & Behavioral Sciences <sup>1</sup>
- \_\_\_\_\_ Earned a minimum of 6 credits in Business, Math, Science & Technology <sup>2</sup>
- \_\_\_\_\_ Completed prescribed technical program requirements
- Earned a minimum of 60 credits  
 -Academic Skills Courses (ASC) do not count toward graduation

- Earned at least 15 semester hours of institutional credit from BSC
- Minimum of 2.00 institutional GPA (BSC only)
- Minimum of 2.00 cumulative GPA (BSC + Transfer)
- Minimum of 2.00 GPA in a prescribed technical program
- Cleared all college obligations
- Satisfied all degree seeking admission requirements
- Filed an Application for Degree in the Academic Records Office immediately following enrollment in final semester

**Specific programs may require additional degree/program requirements; refer to your program.**

<sup>1</sup> Programs may have specific General Education requirements; refer to your program degree plan.

<sup>2</sup> Must be from any two areas of study. For example, a Biology course and a Math course, but not two Biology courses or two Math courses.

### Legend

(\*) Course not approved as GERTA

## General Education Requirements

### Category I: COMMUNICATIONS

Completed \_\_\_\_\_ Needed \_\_\_\_\_

#### Communications I

(3 Credits) - ENGL 110

Gr.	Cr.	
_____	3	ENGL 110 College Composition I

Transfer Course \_\_\_\_\_

#### Communications II

(3 Credits) - ENGL 120, ENGL 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 \_\_\_\_\_

# General Education Requirements Continued

## Category II: ARTS & HUMANITIES/SOCIAL & BEHAVIORAL SCIENCES

Completed \_\_\_\_\_ Needed \_\_\_\_\_

(3 Credits)

Gr.	Cr.		Gr.	Cr.		Gr.	Cr.				
_____	3	ANTH 170	Physical Anthropology and Archeology	_____	3	HIST 101	Western Civilization I	_____	3	POLS 115	American Government
_____	3	ANTH 171	Introduction to Cultural Anthropology	_____	3	HIST 102	Western Civilization II	_____	3	POLS 116	State and Local Government
_____	3	ART 110	Introduction to the Visual Arts	_____	3	HIST 103	United States to 1877	_____	3	POLS 220	International Politics
_____	3	ART 122	Two-Dimensional Design	_____	3	HIST 104	United States Since 1877	_____	3	PSYC 100	Human Relations In Organizations
_____	3	ART 124	Three-Dimensional Design	_____	3	HIST 211	World Civilizations to 1500	_____	3	PSYC 111	Introduction to Psychology
_____	3	ART 130	Drawing I	_____	3	HIST 212	World Civilizations since 1500	_____	3	* PSYC 211	Introduction to Behavior Modification
_____	3	ART 210	Art History I	_____	3	HIST 220	North Dakota History	_____	3	PSYC 250	Developmental Psychology
_____	3	ART 211	Art History II	_____	3	HIST 222	History of the Western Frontier	_____	3	* PSYC 261	Psychology of Adjustment
_____	3	ART 220	Painting I	_____	3	HIST 224	American Studies I	_____	3	PSYC 270	Abnormal Psychology
_____	3	ART 221	Painting II	_____	3	HIST 225	American Studies II	_____	3	RELS 120	Religion in America
_____	3	ART 230	Drawing II	_____	1-3	* HIST 243	Historical Investigations	_____	3	RELS 201	Life and Letters of Paul
_____	3	ART 250	Ceramics I	_____	3	HUMS 210	Integrated Cultural Studies	_____	3	RELS 203	World Religions
_____	3	ART 251	Ceramics II	_____	1-4	HUMS 211	Integrated Cultural Excursion	_____	3	RELS 220	Old Testament
_____	2	ART 265	Sculpture I	_____	2	HUMS 212	Integrated Cultural Enrichment	_____	3	RELS 230	New Testament
_____	2	ART 266	Sculpture II	_____	3	MUSC 100	Music Appreciation	_____	3	SOC 110	Introduction to Sociology
_____	3	* CIS 280	Cyber Ethics	_____	1	MUSC 117	Concert Choir	_____	3	SOC 115	Social Problems
_____	3	CJ 201	Introduction to Criminal Justice	_____	1	MUSC 118	Chamber Choir	_____	3	SOC 220	Family
_____	3	COMM 112	Understanding Media and Social Change	_____	1	MUSC 121	String Ensemble	_____	3	SOC 221	Minority Relations
_____	3	COMM 211	Oral Interpretation	_____	1	MUSC 132	Wind Ensemble	_____	3	SOC 235	Cultural Diversity
_____	3	COMM 212	Interpersonal Communications	_____	1	MUSC 133	Woodwind Ensemble I	_____	3	SOC 251	Gerontology
_____	3	ECON 105	Elements of Economics	_____	1	MUSC 134	Woodwind Ensemble II	_____	3	SOC 252	Criminology
_____	3	ECON 201	Principles of Microeconomics	_____	1	MUSC 135	Brass Ensemble I	_____	3	SOC 275	American Indian Studies
_____	3	ECON 202	Principles of Macroeconomics	_____	1	MUSC 136	Brass Ensemble II	_____	4	SPAN 101	First Year Spanish I
_____	3	ENGL 211	Introduction to Creative Writing	_____	1	MUSC 137	Jazz Ensemble	_____	4	SPAN 102	First Year Spanish II
_____	3	ENGL 221	Introduction to Drama	_____	1	* MUSC 138	Percussion Ensemble	_____	4	SPAN 201	Second Year Spanish I
_____	3	ENGL 222	Introduction to Poetry	_____	1	MUSC 145	Applied Music	_____	4	SPAN 202	Second Year Spanish II
_____	3	ENGL 233	Fantasy and Science Fiction	_____	1	MUSC 146	Applied Music - Major	_____	3	SWK 256	Development of Social Welfare
_____	3	ENGL 236	Women and Literature	_____	3	PHIL 101	Introduction to Philosophy	_____	3	THEA 110	Introduction to Theatre Arts
_____	3	ENGL 238	Children's Literature	_____	3	PHIL 210	Ethics	_____	3	THEA 161	Acting I
_____	3	ENGL 251	British Literature I	_____	3	PHIL 220	Introduction to Logic	_____	3	THEA 180	Dramatic Literature and Style I
_____	3	ENGL 252	British Literature II	_____	3	PHIL 250	Philosophy in Cinema	_____	3	THEA 181	Dramatic Literature and Style II
_____	3	ENGL 261	American Literature I	_____	3	PHIL 253	Environmental Ethics	_____	3	THEA 261	Acting II
_____	3	ENGL 262	American Literature II								
_____	3	ENGL 278	Alternative Literature								
_____	3	GEOG 161	World Regional Geography								

Transfer Courses

Transfer Courses

Transfer Courses

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# General Education Requirements Continued

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

Completed \_\_\_\_\_ Needed \_\_\_\_\_

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

Gr.	Cr.			Gr.	Cr.			Gr.	Cr.			
_____	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 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 II
_____	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 116	Intro to Organic and Biochemistry/Lab	_____	3	MATH 210	Elementary Statistics
_____	3	*	BADM 240	Sales	_____	4/1	CHEM 121	General Chemistry I/Lab	_____	4	* MATH 277	Mathematics for Elementary Teachers I
_____	3	*	BADM 281	Organizational Behavior	_____	4/1	CHEM 122	General Chemistry II/Lab	_____	3/1	MICR 202	Introductory Microbiology/Lab
_____	3	*	BADM 282	Human Resource Management	_____	3	* CIS 147	Principles of Information Security	_____	3	* NUTR 240	Principles of Nutrition
_____	1	*	BIOL 102	Introduction to Aquarium Keeping	_____	4	* CIS 164	Networking Fundamentals I	_____	3/1	PHYS 100	Concepts of Physics/Lab
_____	3		BIOL 109	The Living World	_____	3	CSCI 101	Introduction to Computers	_____	3/1	PHYS 110	Introductory Astronomy/Lab
_____	3/1		BIOL 111	Concepts of Biology/Lab	_____	3	CSCI 122	Beginning Visual Basic	_____	4/1	PHYS 211	College Physics I/Lab
_____	3/1		BIOL 115	Concepts of Anatomy & Physiology/Lab	_____	4	CSCI 160	Computer Science I	_____	4/1	PHYS 212	College Physics II/Lab
_____	3		BIOL 124	Environmental Science	_____	4	CSCI 161	Computer Science II	_____	4/1	PHYS 251	University Physics I/Lab
_____	3/1		BIOL 125	Introduction to Ecology/Lab	_____	3/1	GEOG 121	Physical Geography/Lab	_____	4/1	PHYS 252	University Physics II/Lab
_____	3/1		BIOL 126	Human Biology/Lab	_____	3/1	GEOG 102	Historical Geology/Lab	_____	2/1	PLSC 110	World Food Crops/Lab
_____	3/1		BIOL 150	General Biology I/Lab	_____	3/1	GEOG 105	Physical Geology/Lab	_____	3/1	SCNC 101	Physical Science I/Lab (Biology & Chemistry)
_____	3/1		BIOL 151	General Biology II/Lab	_____	3	GIS 105	Fundamentals of GIS	_____	3/1	SCNC 102	Physical Science II/Lab (Physics & Geology)
_____	3/1		BIOL 170	General Zoology/Lab	_____	3	* GIS 107	GIS Applications	_____	3/1	SCNC 103	Physical Science III/Lab (Astronomy & Meteorology)
_____	3/1		BIOL 220	Anatomy and Physiology I/Lab	_____	4	MATH 103	College Algebra	_____	2/1	* SOIL 210	Introduction to Soil Science/Lab
_____	3/1		BIOL 221	Anatomy and Physiology II/Lab	_____	3	MATH 104	Finite Mathematics				
_____	3/1		BIOL 250	Survey of Tropical Biology/Lab	_____	2	MATH 105	Trigonometry				
_____	3/1		BOT 170	Plant Form and Diversity/Lab	_____	4	MATH 107	Pre-Calculus				
_____	3	*	BUSN 120	Fundamentals of Business	_____	3	* MATH 137	Applied Algebra				

Transfer Courses

Transfer Courses

Transfer Courses

## 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
_____	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