



Cybersecurity and Computer Networks – 3 Year Plan

Associate in Applied Science
Advising Worksheet* 2021-2022

Prescribed Technical Program Total	44-48
General Education Total	16
Total Degree Credits	60-64

Fall Semester I

Prescribed Technical Program Requirements			
CIS	128	Computer Hardware	3
CIS	212	Windows Operating System Client	3
General Education Course			
<i>Business, Math, Science & Technology</i>			
CIS	164	Networking Fundamentals I (Required)	3-4
Academic Skills Courses			
ASC	082	Effective Reading ¹	2
ASC	94	College Writing Prep I ¹	2
Total Credits			13-14

Fall Semester III

Prescribed Technical Program Requirements			
CIS	147	Principles of Information Security	3
CIS	214	Implementing a Windows Active Directory Infrastructure	3
CIS	267	Intermediate Networking I	3-4
General Education Courses			
<i>Communications I</i>			
ENGL	110	College Composition I (Required)	3
Total Credits			12-13

Fall Semester V

Prescribed Technical Program Requirements			
CIS	107	Linux Fundamentals	3
CIS	185	Introduction to Programming	3
CIS	274	Cybersecurity Operations	3
Academic Skills Courses			
ASC	92	Algebra Prep II ¹	2
ASC	93	Algebra Prep III ¹	2
Total Credits			13

Spring Semester II

Prescribed Technical Program Requirements			
CIS	165	Networking Fundamentals II	3-4
CIS	216	Implementing a Windows Network Infrastructure	3
General Education Course			
<i>Arts & Humanities /Social & Behavioral Sciences</i>			
PHIL	220	Introduction to Logic (Recommended)	3
Academic Skills Courses			
ASC	95	College Writing Prep II ¹	2
ASC	96	College Writing Prep III ¹	2
Total Credits			13-14

Spring Semester IV

Prescribed Technical Program Requirements			
CIS	255	Computer and Network Security	3
CIS	268	Intermediate Networking II	3-4
General Education Course			
<i>Communications II (Required - Select one course.)</i>			
COMM	110	Fundamentals of Public Speaking	
ENGL	120	College Composition II	3
ENGL	125	Introduction to Professional Writing	
Academic Skills Courses			
ASC	91	Algebra Prep I ¹	2
Total Credits			11-12

Spring Semester VI

Prescribed Technical Program Requirements			
CIS	223	Linux System Administration	3
CIS	269	Cybersecurity Capstone <i>or</i>	3
	or CIS 197/297	Cooperative Education/Internship ²	
CIS	282	Ethical Hacking and Network Defense	3
General Education Course			
<i>Business, Math, Science & Technology</i>			
MATH	210	Elementary Statistics (Required)	3
Total Credits			12

¹ Academic Skills Courses: Enrollment into these courses is based upon placement testing (<https://bismarckstate.edu/academics/academicresources/academictesting/placementtesting/>). Credits from these classes do not count toward earning a degree.

² CIS 197 or CIS 297 are repeatable for 1, 2, or 3 credits at a time.

* 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) 2021-2022 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 ¹
- _____ Earned a minimum of 3 credits in Arts & Humanities/Social & Behavioral Sciences ¹
- _____ Earned a minimum of 6 credits in Business, Math, Science & Technology ^{1,2}
- _____ 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.

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

² 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

WRITTEN OR ORAL COMMUNICATIONS

Completed _____ Needed _____

(3 Credits) - ENGL 110

Gr.	Cr.	
_____	3	ENGL 110 College Composition I

Transfer Course _____

(3 Credits) - ENGL 120, 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 _____

General Education Requirements Continued

ARTS & HUMANITIES/SOCIAL & BEHAVIORAL SCIENCES

Completed _____

Needed _____

(3 Credits)

Gr.	Cr.		Gr.	Cr.		Gr.	Cr.	
_____	3	ANTH 170	_____	3	HIST 101	_____	3	POLS 115
_____	3	ANTH 171	_____	3	HIST 102	_____	3	POLS 116
_____	3	ART 110	_____	3	HIST 103	_____	3	POLS 220
_____	3	ART 122	_____	3	HIST 104	_____	3	PSYC 100
_____	3	ART 124	_____	3	HIST 211	_____	3	PSYC 111
_____	3	ART 130	_____	3	HIST 212	_____	3	* PSYC 211
_____	3	ART 210	_____	3	HIST 220	_____	3	PSYC 250
_____	3	ART 211	_____	3	HIST 222	_____	3	* PSYC 261
_____	3	ART 220	_____	3	HIST 224	_____	3	PSYC 270
_____	3	ART 221	_____	3	HIST 225	_____	3	RELS 120
_____	3	ART 230	_____	1-3	* HIST 243	_____	3	RELS 201
_____	3	ART 250	_____	3	HUMS 210	_____	3	RELS 203
_____	3	ART 251	_____	1-4	HUMS 211	_____	3	RELS 220
_____	2	ART 265	_____	2	HUMS 212	_____	3	RELS 230
_____	2	ART 266	_____	3	MUSC 100	_____	3	SOC 110
_____	3	* CIS 280	_____	1	MUSC 117	_____	3	SOC 115
_____	3	CJ 201	_____	1	MUSC 118	_____	3	SOC 220
_____	3	COMM 112	_____	1	MUSC 121	_____	3	SOC 221
_____	3	COMM 211	_____	1	MUSC 132	_____	3	SOC 235
_____	3	COMM 212	_____	1	MUSC 133	_____	3	SOC 251
_____	3	ECON 105	_____	1	MUSC 134	_____	3	SOC 252
_____	3	ECON 201	_____	1	MUSC 135	_____	3	SOC 275
_____	3	ECON 202	_____	1	MUSC 136	_____	4	SPAN 101
_____	3	ENGL 211	_____	1	MUSC 137	_____	4	SPAN 102
_____	3	ENGL 221	_____	1	* MUSC 138	_____	4	SPAN 201
_____	3	ENGL 222	_____	1	MUSC 145	_____	4	SPAN 202
_____	3	ENGL 233	_____	1	MUSC 146	_____	3	SWK 256
_____	3	ENGL 236	_____	3	PHIL 101	_____	3	THEA 110
_____	3	ENGL 238	_____	3	PHIL 210	_____	3	THEA 161
_____	3	ENGL 251	_____	3	PHIL 220	_____	3	THEA 180
_____	3	ENGL 252	_____	3	PHIL 250	_____	3	THEA 181
_____	3	ENGL 261	_____	3	PHIL 253	_____	3	THEA 261
_____	3	ENGL 262						
_____	3	ENGL 278						
_____	3	GEOG 161						

Transfer Courses

Transfer Courses

Transfer Courses

General Education Requirements Continued

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	_____	3/1	CHEM 110	_____	3	MATH 146
_____	3	* ACCT 201	_____	3/1	CHEM 112	_____	4	MATH 165
_____	3/1	ASTR 150	_____	3/1	CHEM 114	_____	4	MATH 166
_____	3	* BADM 202	_____	4/1	CHEM 115	_____	3	* MATH 208
_____	3	* BADM 210	_____	4/1	CHEM 116	_____	3	MATH 210
_____	3	* BADM 240	_____	4/1	CHEM 121	_____	4	* MATH 277
_____	3	* BADM 281	_____	4/1	CHEM 122	_____	3/1	MICR 202
_____	3	* BADM 282	_____	3	CIS 147	_____	3	* NUTR 240
_____	1	* BIOL 102	_____	4	* CIS 164	_____	3/1	PHYS 100
_____	3	BIOL 109	_____	3	CSCI 101	_____	3/1	PHYS 110
_____	3/1	BIOL 111	_____	3	CSCI 122	_____	4/1	PHYS 211
_____	3/1	BIOL 115	_____	4	CSCI 160	_____	4/1	PHYS 212
_____	3	BIOL 124	_____	4	CSCI 161	_____	4/1	PHYS 251
_____	3/1	BIOL 125	_____	3/1	GEOG 121	_____	4/1	PHYS 252
_____	3/1	BIOL 126	_____	3/1	GEO 102	_____	2/1	PLSC 110
_____	3/1	BIOL 150	_____	3/1	GEO 105	_____	3/1	SCNC 101
_____	3/1	BIOL 151	_____	3	GIS 105	_____		
_____	3/1	BIOL 170	_____	3	* GIS 107	_____	3/1	SCNC 102
_____	3/1	BIOL 220	_____	4	MATH 103	_____		
_____	3/1	BIOL 221	_____	3	MATH 104	_____	3/1	SCNC 103
_____	3/1	BIOL 250	_____	2	MATH 105	_____		
_____	3/1	BOT 170	_____	4	MATH 107	_____	2/1	* SOIL 210
_____	3	* BUSN 120	_____	3	* MATH 137	_____		

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	_____	2	ASC 94
_____	2	ASC 91	_____	2	ASC 95
_____	2	ASC 92	_____	2	ASC 96
_____	2	ASC 93	_____	3/1	ASC 098