



Cybersecurity and Computer Networks – 3 Year Plan

Associate in Applied Science
Advising Worksheet* 2020-2021

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.