



Cybersecurity and Computer Networks – 3 Year Plan
Associate in Applied Science
Advising Worksheet* 2018-2019

Prescribed Technical Program Total	60
General Education Total	16
Total Degree Credits	76

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)	4
Academic Skills Courses			
ASC	082	Effective Reading ¹	2
ASC	94	College Writing Prep I ¹	2
Total Credits			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	4
General Education Courses			
<i>Communications I</i>			
ENGL	110	College Composition I (Required)	3
<i>Communications II</i>			
COMM	110	Fundamentals of Public Speaking (Recommended)	3
Total Credits			16

Fall Semester V

Prescribed Technical Program Requirements			
CIS	185	Introduction to Programming	3
CIS	204	Database Design and SQL	3
CIS	223	Linux System Administration	3
CIS	241	Digital Forensics Fundamentals	3
Academic Skills Courses			
ASC	92	Algebra Prep II ¹	2
ASC	93	Algebra Prep III ¹	2
Total Credits			16

Spring Semester II

Prescribed Technical Program Requirements			
CIS	165	Networking Fundamentals II	4
CIS	216	Implementing a Windows Network Infrastructure	3
CIS	230	Electronic Publishing	3
Academic Skills Courses			
ASC	95	College Writing Prep II ¹	2
ASC	96	College Writing Prep III ¹	2
Total Credits			14

Spring Semester IV

Prescribed Technical Program Requirements			
CIS	105	Computer Spreadsheets	3
CIS	107	Linux Fundamentals	3
CIS	255	Computer and Network Security	3
CIS	268	Intermediate Networking II	4
Academic Skills Courses			
ASC	91	Algebra Prep I ¹	2
Total Credits			15

Spring Semester VI

Prescribed Technical Program Requirements			
CIS	226	Linux Network and Security Administration	3
CIS	269	Cybersecurity Capstone <u>or</u>	3
or CIS	197/297	Cooperative Education/Internship ²	3
CIS	282	Ethical Hacking and Network Defense	3
General Education Course			
<i>Arts & Humanities/Social & Behavioral Sciences</i>			
PHIL	220	Introduction to Logic (Recommended)	3
<i>Business, Math, Science & Technology</i>			
MATH	210	Elementary Statistics (Recommended)	3
Total Credits			15

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.