



Cybersecurity and Computer Networks – 3 Year Plan

Associate in Applied Science
Advising Worksheet* 2019-2020

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

Business, Math, Science & Technology

CIS 164	Networking Fundamentals I (Required)	3-4
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Academic Skills Courses

ASC 082	Effective Reading ¹	2
ASC 94	College Writing Prep I ¹	2

Total Credits 13-14

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

Arts & Humanities /Social & Behavioral Sciences

PHIL 220	Introduction to Logic (Recommended)	3
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Academic Skills Courses

ASC 95	College Writing Prep II ¹	2
ASC 96	College Writing Prep III 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

Communications I

ENGL 110	College Composition I (Required)	3
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Total Credits 12-13

Spring Semester IV

Prescribed Technical Program Requirements

CIS 255	Computer and Network Security	3
CIS 268	Intermediate Networking II	3-4

General Education Course

Communications II (Required - Select one course.)

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
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Total Credits 11-12

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 VI

Prescribed Technical Program Requirements

CIS 223	Linux System Administration	3
CIS 269	Cybersecurity Capstone <u>or</u>	3
or CIS 197/297	Cooperative Education/Internship ²	
CIS 282	Ethical Hacking and Network Defense	3

General Education Course

Business, Math, Science & Technology

MATH 210	Elementary Statistics (Required)	3
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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.