



Cybersecurity and Computer Networks – 3 Year Plan

Associate in Applied Science
Advising Worksheet* 2017-2018

Prescribed Technical Program Total	61
General Education Total	15-16
Total Degree Credits	76-77

Fall Semester I

Prescribed Technical Program Requirements

CIS	128	Computer Hardware	3
CIS	164	Networking Fundamentals I (Required)	4
CIS	212	Windows Operating System Client	3

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

Communications I

ENGL	110	College Composition I (Required)	3
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Communications II

COMM	110	Fundamentals of Public Speaking (Recommended)	3
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Total Credits 16

Fall Semester V

Prescribed Technical Program Requirements

CIS	204	Database Design and SQL	3
CIS	223	Linux System Administration	3
CIS	241	Digital Forensics Fundamentals	3

General Education Courses

Business, Math, Science & Technology (Select one of the following)

CSCI	122	Beginning Visual Basic <u>or</u>	3
or CSCI	160	Computer Science I	4

Academic Skills Courses

ASC	92	Algebra Prep II ¹	2
ASC	93	Algebra Prep III ¹	2

Total Credits 16-17

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	107	Linux Fundamentals	3
CIS	213	Implementing Windows Server Applications	3
CIS	255	Computer and Network Security	3
CIS	268	Intermediate Networking II	4

Academic Skills Courses

ASC	91	Algebra Prep I ¹	2
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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	
CIS	282	Ethical Hacking and Network Defense	3

General Education Courses

Arts & Humanities /Social & Behavioral Sciences

PHIL	220	Introduction to Logic (Recommended)	3
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Business, Math, Science & Technology

MATH	210	Elementary Statistics ³ (Recommended)	3
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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.

³ MATH 210 is recommended but MATH 146, MATH 165, MATH 166 or MATH 208 will also be accepted.

* 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.