Cybersecurity and Information Technology – 4 Year Plan

Bachelor of Applied Science
Advising Worksheet* 2019-2020

Cybersecurity and Information Technology	43
Foundation	27-28
Electives	14-15
General Education	36
Total Degree Credits	**120-122**

General Education Courses

Arts & Humanities

PHIL	220	Introduction to Logic (Recommended)	3
CIS	280	Cyber Ethics (Required)	3

Social & Behavioral Sciences

1.	3
2.	3

Communications I

ENGL	110	College Composition I (Required)	3

Communications II (Required - select one course.)

ENGL	120	College Composition II	
ENGL	125	Introduction to Professional Writing	3

Communications III

COMM	110	Fundamentals of Public Speaking	3

Business, Math, Science & __Technology__

CIS	164	Networking Fundamentals I (Required)	3-4[1]

Business, __Math__, Science & Technology

MATH	210	Elementary Statistics (Required)	3

Business, Math, __Science__ & Technology (select two science courses with labs)

1.	4
2.	4
Total Credits	**36**

Foundation Courses

CIS	107	Linux Fundamentals	3
CIS	147	Principles of Information Security	3
CIS	165	Networking Fundamentals II	3-4
CIS	185	Introduction to Programming	3
CIS	212	Windows Operating System Client	3
CIS	216	Implementing a Windows Network Infrastructure	3
CIS	223	Linux System Administration	3
CIS	255	Computer and Network Security	3
CIS	274	Cybersecurity Operations	3
		Total Credits	**27-28**

Elective Courses

1.	
2.	
3.	
4.	
5.	
Total Credits	**14-15**

Fall Semester I

Prescribed Technical Program Requirements

CSCI	160	Computer Science I	4
CIS	204	Database Design and SQL	3
CIS	226	Linux Network and Security Administration	3
CIT	367	Cybersecurity Infrastructure Configuration	3

Spring Semester II

Prescribed Technical Program Requirements

CIS	241	Digital Forensics Fundamentals	3
CIT	320	Disaster Recovery and Incident Response	3
CIT	330	Virtualization	3
CIT	368	Cybersecurity Prevention and Countermeasures	3

Fall Semester III

Prescribed Technical Program Requirements

CIT	310	Enterprise System Administration	3
CIT	410	Wireless Networking and Mobile Security	3
CIT	430	Cloud Computing and Security	3

Spring Semester IV

Prescribed Technical Program Requirements

CIT	450	Database and Web Application Security	3
CIT	470	Penetration Testing	3
CIT	381	IT Project Management ***or***	
or CIT	397/497	Cooperative Education/Internship [2]	3

[1] Additional General Education classes may be taken to meet the 36 credit requirement.

[2] CIS 397 or CIS 497 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.