



Cybersecurity and Information Technology – 4 Year Plan

Bachelor of Applied Science

Advising Worksheet* 2019-2020

IT-Related AS/AAS Degree Total	41
Cybersecurity and Information Technology Total	43
General Education Total	36
Total Degree Credits	120

General Education Courses

Arts & Humanities/Social & Behavioral Sciences

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

Arts & Humanities/Social & Behavioral Sciences

1.			3
2.			3

Communications I

ENGL	110	College Composition I (required)	3
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Communications II (Select one course.)

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

Communications III

COMM	110	Fundamentals of Public Speaking	3
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Business, Math, Science & Technology

CIS	164	Networking Fundamentals I (required)	4
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Business, Math, Science & Technology

MATH	210	Elementary Statistics (required)	3
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Business, Math, Science & Technology (select two science courses and labs)

1.			4
2.			4

Total Credits 36

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

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

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.

IT-Related AS/AAS Courses

CIS	107	Linux Fundamentals (required)	3
CIS	165	Networking Fundamentals II (required)	4
CIS	185	Introduction to Programming (required)	3
CIS	212	Microsoft Operating System Client (required)	3
CIS	216	Implementing a Microsoft Windows Network Infrastructure (required)	3
CIS	223	Linux System Administration (required)	3
CIS	255	Computer and Network Security (required)	3
CIS	274	Cybersecurity Operations (required)	3

1.			
2.			
3.			
4.			
5.			
6.			

Total Credits 41

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

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	3
or CIT	397/497	Cooperative Education/Internship ²	