

Cybersecurity and Information Technology – 4 Year Plan

Total Credits 15-16

Bachelor of Applied Science Advising Worksheet* 2019-2020

Fall S	Semest	er I	
Presc	ribed Te	chnical Program Requirements	
CIS	128	Computer Hardware	3
CIS	147	Principles of Information Security	3
CIS	212	Windows Operating System Client	3
Gene	ral Educa	ation Courses	
Busine	ess, Math	, Science & <u>Technology</u>	
CIS	164	Networking Fundamentals I (Required)	3-4 ¹
Comm	nunication	ns I	
ENGL	110	College Composition I (required)	3

Fall S	Semes	ter III	
Presc	ribed Te	echnical Program Requirements	
CIS	107	Linux Fundamentals	3
CIS	214	Implementing a Windows Active Directory	3
		Infrastructure	
CIS	267	Intermediate Networking I	3-4
CIS	274	Cybersecurity Operations	3
Gene	ral Educ	ation Course	
Busine	ss, <u>Mat</u>	<u>h</u> , Science & Technology	
MATH	210	Elementary Statistics (Required)	3
		Total Credits	15-16

Fall S	Semest	er V	
Presc	ribed Te	chnical 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
Gene	ral Educa	ation Course	
Comm	unication	os III	
COMN	/ 110	Fundamentals of Public Speaking (Required)	3
		Total Credits	16

Fall	Semes	ter VII	
Presc	ribed Te	echnical Program Requirements	
CIT	310	Enterprise System Administration	3
CIT	410	Wireless Networking and Mobile Security	3
CIT	430	Cloud Computing and Security	3
Gene	ral Educ	cation Courses	
Arts 8	& Human	ities	
CIS	280	Cyber Ethics (Required)	3
Busin	ess, Matl	h, <u>Science</u> & Technology (select one science course and lab)	
1.			4
		Total Credits	16

Prescribed Technical Program Total	87-91
General Education Total	36
Total Degree Credits	123-127

Sprin	g Sen	nester II	
Presci	ribed T	echnical Program Requirements	
CIS	165	Networking Fundamentals II	3-4
CIS	185	Introduction to Programming	3
CIS	216	Implementing a Windows Network Infrastructure	3
CIS	255	Computer and Network Security	3
Gener	ral Edu	cation Course	
Comm	unicatio	ons II (Required - Select one course.)	
ENGL	120	College Composition II	3
ENGL	125	Introduction to Professional Writing	
		Total Credits	15-16

Sprin	g Semes	ter IV	
Prescr	ibed Tech	nical Program Requirements	
CIS	223	Linux System Administration	3
CIS	268	Intermediate Networking II	3-4
CIS	269	Cybersecurity and Computer Networks Capstone or	3
or CIS	197/297	Cooperative Education/Internship ²	3
CIS	282	Ethical Hacking and Network Defense	3
Gener	al Educati	on Course	
Arts &	Humanitie:	s	
PHIL	220	Introduction to Logic (Recommended)	3
		Total Credits	15-16

Spri	ng Sem	ester VI	
Presc	ribed Te	chnical 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
Gene	ral Educ	ation Course	
Social	& Behav	ioral Sciences	
1.			3
		Total Credits	15

Prescr	ibed Tech	nical Program Requirements	
CIT	450	Database and Web Application Security	3
CIT	470	Penetration Testing	3
CIT	381	IT Project Management <u>or</u>	3
or CIT	397/497	Cooperative Education/Internship ³	3
Gener	al Educati	on Courses	
Social 8	& Behavior	al Sciences	
1.			3
Busines	ss, Math, <u>s</u>	Science & Technology (select one science course and lab)	
1.		_	4
		Total Credits	16

 $^{^{\}rm 1}$ Additional General Education classes may be taken to meet the 36 credit requirement.

 $^{^{\}rm 2}$ CIS 197 or CIS 297 are repeatable for 1, 2, or 3 credits at a time.

 $^{^{\}rm 3}$ 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.