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SAMPLE 4-YEAR PLAN: CYBERSECURITY B.S.

Northern Kentucky University

This is an example of one way a student can complete this program in four years. Students may be required to complete additional prerequisite courses based on placement.

MAJOR: Cybersecurity

FIRST YEAR	Fall Semester		Spring Semester	
Get to know your fellow students by attending departmental social events and student research talks. Make sure you allow time in your programming courses for experimentation and fun; that is the best way to learn.	Gen Ed: Communication; Written I	3	CIT 130 Information Technology Fundamentals	3
	Gen Ed: Culture and Creativity I	3	CSC 260 Object-Oriented Programming I	3
	Gen Ed: Scientific and Quantitative Inquiry; Mathematics and Statistics MAT 185 Introductory Discrete Mathematics	3	CSC 260L Object-Oriented Programming Lab (*recommended*)	0-1
*INF 120 is recommended but not required to fulfill this Gen Ed. Students who test out of this course can take a different science course.	Gen Ed: Scientific and Quantitative Inquiry; Natural Sciences without lab INF 120 Elementary Programming*	3	Gen Ed: Communication; Oral	3
	Gen Ed: Self and Society; Individual and Society I	3	INF 284 Introduction to Networks and Data Communication	3
	INF 100 Orientation to the College of Informatics	1	INF 286 Intro to Web Development	3
	TOTAL	**16**	**TOTAL**	**15-16**
SECOND YEAR	Fall Semester		Spring Semester	
Speak with your advisor and professors about possible co-op and research opportunities. Think carefully as you choose a minor. Try out for the cyber defense team.	ASE 230 Server-Side Programming	3	CIT 371 Unix Systems	3
	BIS 101 Fundamentals of Business Computing	3	CSC 360 Object Oriented Programming II	3
	CIT 285 Cybersecurity Fundamentals	3	Gen Ed: Communication; Written II	3
	Gen Ed: Cultural Pluralism	3	Gen Ed: Self and Society; Individual and Society II	3
	Gen Ed: Culture and Creativity II	3	STA 205 Statistical Methods	3
	INF 201 Foundations of Informatics Professionals	1		
	TOTAL	**16**	**TOTAL**	**15**
THIRD YEAR	Fall Semester		Spring Semester	
Make a point to read professional publications such as Communications of the ACM and Information Week, to stay abreast of new developments in the field. Consider becoming a mentor to newer students.	BIS 300 Management Information Systems	3	CIT 430 Computer Forensics	3
	CSC 350 Database Programming	3	CSC 362 Computer Systems	3
	CSC 364 Data Structures and Algorithms	3	CSC 460 Operating Systems	3
	CYS 310 Cybersecurity Risk Management	3	Major Guided Elective	3
	Gen Ed: Scientific and Quantitative Inquiry; Natural Sciences with lab	4	PHI 310 Information Ethics	3
	TOTAL	**16**	**TOTAL**	**15**
FOURTH YEAR	Fall Semester		Spring Semester	
Attend programs run by Career Services to get your resume in shape and polish your interviewing skills.	BIS 382 Principles of Information Security	3	CIT 485 Advanced Cybersecurity	3
	CSC 482 Computer Security	3	Experiential Learning Component	0
	CYS 444 Software Security	3	Major Guided Elective	3
	Gen Ed: Global Viewpoints	3	Minor or elective	3
	MAT 483 Cryptology	3	Minor or elective	3
	TOTAL	**15**	**TOTAL**	**12**

	GRAND TOTAL OF CREDITS	120

Notes:

This degree plan is for students who are admitted with ALEKS or ACT score placing the student in Calculus A (MAT 128). Students with a lower score will need to take additional mathematics such as MAT 119 (required for CSC 360).

A secondary area of study (minor, second major, or focus area) is required for graduation.

A total of 45 credits in 300-level or above courses is required for graduation.

A total of 120 credits is required for graduation.

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