

APPENDIX D: Black Hawk College and National Louis University

Associate in Applied Science, Cybersecurity to the Bachelor of Science, Computer Science and Information Systems

Step I: Associate in Applied Science Degree

B.S. Computer Science and Information Systems requirements	Associate in Applied Science Degree courses which fulfill NLU requirements	Semester Hours	Quarter Hours
GENERAL EDUCATION		15	22.5
Communications			
Written Communication - min 4 QH	ENG 101 Composition I	3	4.5
Humanities and Fine Arts			
Humanities/Fine Arts - min 4 QH	AAS Humanities General Ed (select an IAI course)	3	4.5
Humanities/Fine Arts - min 4 QH	AAS Humanities General Ed (select an IAI course)	3	4.5
Mathematics and Natural Sciences			
MTH 102 Statistical Foundation*	MATH 108 Statistics for Gen Ed	3	4.5
Social and Behavioral Sciences			
Social/Behavioral Science - min 4 QH	AAS Social Science General Ed (select any IAI course except AG 281)	3	4.5
COMPUTER SCIENCE AND INFORMATION SYSTEMS		6	9
CSS 205 Operating Systems	ITS 112 Operating Systems	3	4.5
CSS 301 Applied Object-Oriented Programming	CIP 214 C Programming	3	4.5
NETWORK AND INFORMATION SECURITY CONCENTRATION		11	16.5
CSS 302 Information Security	NETW 170 Intro to Information Security	3	4.5
CSS 400 Advanced Studies in Info Security	NETW 125 Introduction to Networks	4	6
CSS 405 Connecting Networks	NETW 145 Switching, Routing & Wireless	4	6
PROGRAM ELECTIVES		28	42
	ITS 116 Computer Hardware	3	4.5
	ITS 125 Professional Skills	1	1.5
	NETW 215 Windows Server	3	4.5
	ITS 212 Linux Shell Programming	3	4.5
	NETW 167 Powershell	3	4.5
	NETW 274 Ethical Hacking and Security	3	4.5
	NETW 280 Cisco CCNA Security	3	4.5
	NETW 290 IT Internship	3	4.5
	Choose any two AAS Electives: NETW 265, ITS 118 or ITS 216	6	9
TOTAL TRANSFER:		60	90

Note: After transfer, online students are also required to complete MIS 437 (5QH) Data Mining and Warehousing (5) as a part of Program Major

* Grade of C or better required

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Step II: Additional courses to be taken at Black Hawk College or National Louis University

NLU Requirements	College courses which fulfill NLU requirements	Semester Hours	Quarter Hours
Communications			
ENG 201 Intermediate English Composition	ENG 102 Composition II	3	4.5
ENG 203 Effective Speaking for Undergraduate	SPEC 101 Prin of Speech Communication	3	4.5
Mathematics and Natural Sciences			
Natural Sciences	ASTR 101, 102; BIOL 100, 101, 105, 106, 200, 201, 211, 250, 251; CHEM 101, 110, 111; NSCI 101, 102; PHYS 101, 110, 140, 201; PS 101	3	4.5
Mathematics or Natural Sciences	Any IAI Math or Life/Physical Sciences course	3	4.5
Social/Behavioral Sciences			
	Any IAI Social/Behavioral Science course	3	4.5
TOTAL TRANSFER:		15	22.5

*Grade of C or better is required for transfer

Step III: National Louis University - B.S. Computer Science and Information Systems

	SH	QH
General Education Requirement	10	15
GEN 203 You & NLU: Tools and Strategies of Student Success - This course will be waived for any student who transfers a minimum of 60SH/90QH Two additional General Education courses (10) BRV 200 Braven Accelerator or CAR 214 Creating and Communicating the Professional Brand or CAR 202 Creating Professional Identity and CAR 203 You the Professional (5)		
Computer Science and Information Systems Major	33	50
MIS 103 Management Information Systems Concepts CSS 200 Introduction to Information Systems CSS 210 Introduction to Networking and Information Security CSS 215 Introduction to Systems Analysis CSS 220 Discrete Structures CSS 225 Introduction to Applied Programming CSS 300 Data Analysis MIS 433 Developing and Managing Databases CSS 492 Internship in Computer Science and Information Systems (must be taken at NLU)		
Free Electives	2	3
TOTAL	45	68

SUMMARY		SH	QH
Black Hawk College	Associate Degree	60	90
Black Hawk College or National Louis University	Additional Courses from Step II	15	22.5
National Louis University	Courses taken at NLU	45	68
TOTAL		120	180.5