KENNESAW STATE UNIVERSITY

Double Owl Pathway of Study

Undergraduate Program Name: Bachelor of Science in Computer Science with a concentration in Cyber and Network Security

Graduate Program Name: Master of Science in Cybersecurity

Pathway Description: Students in the Cyber and Network Security concentration of the BSCS program can follow this pathway to enroll in the MS Cyber program.

Course Pairs:

Double Owl CS Scholars will NOT take three of the following CS courses (in the Cyber and Network Security Concentration):	In their place, Double Owl CS Scholars will take three of the following CS courses:
CS 3626: Cryptography	CYBR 7400: Introductions to Cryptography and Its Applications
CS 4612: Software Security	CYBR 7100: Secure Application Development
CS 4626: Computer and Network Security	CYBR 7200: Enterprise Infrastructure Security

Possible Pathway of Study

Double counted courses are in RED

Year 1 - Fall (credits)	Credits	Year 1 - Spring (credits)	Credits
ENGL 1101: Composition I (A-1)	3	ENGL 1102: Composition II (A-1)	3
MATH 1113: Precalculus (A-2)	3	MATH 1190: Calculus I (D-1)	4
CSE 1321: Programming Problem Solving I	3	CSE 1322: Programming Problem Solving II	3
CSE 1321L: Programming Problem Solving I Lab	1	CSE 1322L: Programming Problem Solving II Lab	1
POLS 1101: American Government (E-1)	3	General Education Course (E-2)	3
ECON 1000: Contemporary Economic Issues (B-1)	2	MATH 2345: Discrete Mathematics	3
TOTAL SEMESTER CREDITS	**15**	**TOTAL SEMESTER CREDITS**	**17**
Year 2 - Fall (credits)	**Credits**	**Year 2 - Spring (credits)**	**Credits**
MATH 2202: Calculus II	4	CS 3622: Fundamentals of Data Comm	3
CS 3305: Data Structures	3	CS 3503: Computer Organization & Arch	3
Science course I (D-2)	3	CS 3410: Intro to Database Systems	3
Science course I Lab (D-2)	1	TCOM 2010: Technical Writing	3
General Education Course (E-3)	3	Science course II (D-2)	3
		Science course II Lab (D-2)	1
TOTAL SEMESTER CREDITS	**14**	**TOTAL SEMESTER CREDITS**	**16**
Apply to Cyber Graduate Program and Start Graduate Work			
Year 3 - Fall (credits)	**Credits**	**Year 3 - Spring (credits)**	**Credits**
SWE 3313: Intro to Software Engineering	3	CS 4308: Concepts of Programming Lang.	3
CS 4306: Algorithm Analysis	3	CSE 3801: Professional Practices & Ethics	2
MATH 2332: Probability & Data Analysis	3	MATH 3260: Linear Algebra I	3
General Education Course (C-1)	3	General Education Course (E-4)	3
CNS Concentration Core I CS 3626: Cryptography Replaced by CYBR 7400: Intro to Cryptography and its Applications	3	CNS Concentration Core II CS 4612: Software Security Replaced by CYBR 7100: Secure Application Development	3
TOTAL SEMESTER CREDITS	**15**	**TOTAL SEMESTER CREDITS**	**14**

Year 4 - Fall (credits)	Credits		Credits
CS 43065:Advanced Algorithms	3	CS 4850: Capstone	3
CS 4504: Distributed Computing	3	Concentration Elective or CS Elective	3
General Education Course (B-2)	3	General Education Course (C-2)	3
CNS Concentration Core III CS 4622: Computer Networks	3	CNS Concentration Core IV CS 4626: Computer and Network Security Replaced by CYBR 7200: Enterprise Infrastructure Security	3
Free Elective	3	Free Elective	2
TOTAL SEMESTER CREDITS	**15**	**TOTAL SEMESTER CREDITS**	**14**
Year 5- Fall (credits)	**Credits**	**Year 5 - Spring (credits)**	**Credits**
CYBR 7000: Cyber Law, Policy, and Enforcement	3	CYBR 7050: Contingency Planning for Cybersecurity	3
CYBR 7220: Mobile and Cloud Security	3	CYBR 7240: Cyber Analytics and Intelligence	3
CYBR 7300: Management of Cybersecurity	3	CYBR 7350: Contingency Planning for Cybersecurity	3
		CYBR 7910: Capstone in Cybersecurity Practicum OR CYBR 7930: Capstone in Cybersecurity Management	3
TOTAL SEMESTER CREDITS	**9**	**TOTAL SEMESTER CREDITS**	**12**