

Cybersecurity Certificate Curriculum Map

This curriculum map is designed to show how program learning outcomes are introduced, developed, and mastered across courses in the program. Use the following guidance when completing or reviewing the map:

Introduced: Indicates the course provides students with their first exposure to a concept or skill. At this stage, students are expected to demonstrate only a basic understanding.

Developed: Indicates that students gain more in-depth knowledge, practice, and reinforcement of the concept or skill. Students are expected to begin applying what they have learned with increasing independence.

Mastered: Indicates that students can independently and skillfully apply the outcome, demonstrating a high level of understanding and competence appropriate for graduation and entry into the workforce or a 4-year institution.

Courses are listed in rows and PLOs are in columns	Summarize and interpret the history and evolution of computer systems and social issues involving computers.	Analyze and interpret data when developing programs using C++ and Java	Maintain and differentiate between different operating systems	Communicate effectively, engage in lifelong learning, and function on teams	Distinguish between the hardware and software of a computer system	Identify various applications as well as their functions	Maintain and implement small home and office networks	Use the techniques and skills for professional practice	Understanding of professional and ethical responsibility	 Knowledge of contemporary issues
CS105 Introduction to Computer Science	Introduced	Introduced	Introduced	Introduced	Introduced	Introduced	Introduced	Introduced	Introduced	Introduced
CS130 Introduction to Networking	Introduced	Not Addressed	Developed	Developed	Developed	Developed	Mastered	Developed	Developed	Developed
CS219 Ethical Hacking	Developed	Not Addressed	Developed	Developed	Mastered	Developed	Mastered	Mastered	Mastered	Developed
CS220 A+ Essential with Practical Applications	Introduced	Developed	Developed	Developed	Mastered	Developed	Developed	Developed	Developed	Developed
CS231 Linux+	Developed	Not Addressed	Developed	Developed	Developed	Introduced	Introduced	Mastered	Mastered	Developed
CS245 Security+	Introduced	Not Addressed	Introduced	Developed	Developed	Developed	Mastered	Mastered	Developed	Developed
CS246 Cybersecurity Analyst	Developed	Not Addressed	Developed	Developed	Developed	Developed	Developed	Developed	Developed	Developed
CS247 Computer Forensics and Investigation	Developed	Not Addressed	Developed	Developed	Developed	Developed	Developed	Developed	Developed	Developed
BCIS 1110 Introduction to Information Systems	Introduced	Not Addressed	Introduced	Introduced	Introduced	Introduced	Introduced	Introduced	Introduced	Introduced
CS112 Introduction to Operating Systems	Introduced	Not Addressed	Mastered	Developed	Developed	Developed	Introduced	Developed	Developed	Developed
CS248 Web Design and Programming	Mastered	Not Addressed	Introduced	Developed	Introduced	Mastered	Not Addressed	Mastered	Mastered	Developed
CS261 Network Concepts I	Developed	Not Addressed	Introduced	Developed	Developed	Introduced	Mastered	Developed	Mastered	Developed
CS267 Network Concepts II	Developed	Mastered	Developed	Mastered	Developed	Introduced	Mastered	Mastered	Mastered	Mastered
CS216 Windows Server I	Developed	Not Addressed	Introduced	Developed	Developed	Introduced	Mastered	Developed	Mastered	Developed
CS217 Windows Server II	Developed	Not Addressed	Introduced	Developed	Developed	Introduced	Mastered	Mastered	Mastered	Developed