The goal of this course is to provide Cybersecurity Management candidates with an in-depth understanding of ciphers, cryptology, and encryption and their use in safeguarding information and systems in the enterprise. The course covers the standard uses of encryption including access control, authentication, data application security, and virtual private networking and examines technical direction and trends in regards to the future of cryptology. The course will also review legal decisions and implications of encryption in the debate on privacy/civil liberties versus business and security/safety goals.
CSMT 7990 Enterprise CS Mgt Capstone (3)
In this Capstone course, students will apply cybersecurity management concepts, best practices, technical knowledge and principles as learned throughout the Program from the perspective of an organizational CSO/CISO. Through Case Study, students will display mastery of these through the creation of deliverables necessary to manage an effective enterprise cybersecurity program. This will include review/documentation of an IT organization’s security posture, and creation of a Risk Management structure, Security Policy/Operational Framework, and Budget. Finally, each student will produce a professional-grade White Paper on a Cybersecurity/Cybersecurity Management topic to be assessed by the MPS in Cybersecurity Management Assessment Board. Prerequisite(s): CSMT 7050, 7900, 7700, 7800, 7500, 7950, 7300* and 7170. * May be taken concurrently.

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