CYBERSECURITY ADMINISTRATION (CYB)

CYB 200 Selected Topics (1-6 Credits)
Professional Studies
Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. Repeatable 6 times for 6 credits maximum

CYB 233 Introduction to Computer Networking and Cloud Computing for Professional Studies (3 Credits)
Professional Studies
Overview of networking technology components with an emphasis on cloud computing and cloud security. Students will also gain an understanding of cloud computing models (Infrastructure as a Service, Platform as a Service, Identification as a Service, and Software as a Service).
Shared Competencies: Information Literacy and Technological Agility (https://coursecatalog.syracuse.edu/shared-competencies/information-literacy-and-technological-agility/)

CYB 300 Selected Topics (1-6 Credits)
Professional Studies
Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. Repeatable 6 times for 6 credits maximum

CYB 323 Introduction to Information Security for Professional Studies (3 Credits)
Professional Studies
Basic concepts and technologies of information security. Students who successfully complete this course will have a comprehensive overview of information security with some hands-on experience.
Prereq: CYB 233
Shared Competencies: Information Literacy and Technological Agility (https://coursecatalog.syracuse.edu/shared-competencies/information-literacy-and-technological-agility/)

CYB 334 Security in the Networked Environment for Professional Studies (3 Credits)
Professional Studies
Practical and theoretical knowledge of network security. Topics covered include network security threats, mitigation/defense techniques, virtual private networks (VPSs), firewalls, intrusion detection and security policies and their place in information technology (IT) and business plans.
Prereq: CYB 233 and CYB 323
Shared Competencies: Information Literacy and Technological Agility (https://coursecatalog.syracuse.edu/shared-competencies/information-literacy-and-technological-agility/)

CYB 336 Leading Issues in Information Security for Professional Studies (3 Credits)
Professional Studies
Leading Issues and challenges in Information security, and consideration of global perspectives related to current technology trends.
Prerequisite CYB 323
Shared Competencies: Information Literacy and Technological Agility (https://coursecatalog.syracuse.edu/shared-competencies/information-literacy-and-technological-agility/)

CYB 342 Information Security Policy for Professional Studies (3 Credits)
Professional Studies
Introduces students to the necessary skills for developing, reviewing and implementing information security policies. Students will learn the fundamentals of effective policy writing, awareness and training along with information security frameworks important to building a successful information security policy.
Prerequisite CYB 323
Shared Competencies: Information Literacy and Technological Agility (https://coursecatalog.syracuse.edu/shared-competencies/information-literacy-and-technological-agility/)

CYB 346 Information Technology Management and Administration for Professional Studies (3 Credits)
Professional Studies
Information technology management principles and practices. Administration of computers, operating systems, and applications. Tools and techniques for managing information technology operations. Includes labs.
Prereq: CYB 233
Shared Competencies: Information Literacy and Technological Agility (https://coursecatalog.syracuse.edu/shared-competencies/information-literacy-and-technological-agility/)

CYB 400 Selected Topics (1-6 Credits)
Professional Studies
Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. Repeatable 6 times for 6 credits maximum

CYB 402 Digital Forensics for Professional Studies (3 Credits)
Professional Studies
The fundamentals of the forensic process, evidence handling, and quality assurance as they apply to digital forensics. Emphasis on evidence handling and quality assurance as they apply to digital forensics.
Prereq: CYB 323
Shared Competencies: Information Literacy and Technological Agility (https://coursecatalog.syracuse.edu/shared-competencies/information-literacy-and-technological-agility/)

CYB 425 Enterprise Risk Management for Professional Studies (3 Credits)
Professional Studies
A multidisciplinary perspective of risk assessment, modeling, and management. Topics include: concepts of personal accountability versus governance and policy; how organizations define and measure risk and loss; and plan for contingencies.
Shared Competencies: Information Literacy and Technological Agility (https://coursecatalog.syracuse.edu/shared-competencies/information-literacy-and-technological-agility/)

CYB 476 Applied Information Security for Professional Studies (3 Credits)
Professional Studies
This course is intended to explore how to apply information security technologies and approaches to real-life systems and services.
Prereq: CYB 323
Shared Competencies: Information Literacy and Technological Agility (https://coursecatalog.syracuse.edu/shared-competencies/information-literacy-and-technological-agility/)