CYPD - Cybersecurity Professional Development

CYPD 430 Cybersecurity Compliance Methodologies I (3 Credit Hours)
Students review and analyze the concepts and interrelationships underlying cybersecurity compliance methodologies, including the NIST Risk Management Framework (RMF); Federal Risk and Authorization Management Program (FedRAMP); NIST 800-171; CMMC; and NIST Cyber Security Framework (CSF). Students develop competencies to utilize NIST RMF Steps 0-1/FedRAMP Steps 1.
Prerequisites: CYSE 300

CYPD 431 Cybersecurity Compliance Methodologies Lab I (3 Credit Hours)
In a virtual lab system, students execute the NIST RMF Steps 0-1: Categorization and Security Control Selection and complete the associated analysis and documentation as required by NIST/FedRAMP/CMMC.
Prerequisites: CYPD 430

CYPD 432 Cybersecurity Compliance Methodologies II (3 Credit Hours)
Students review and analyze the concepts and interrelationships underlying cybersecurity compliance methodologies, including the NIST Risk Management Framework (RMF); Federal Risk and Authorization Management Program (FedRAMP); NIST 800-171; and CMMC; NIST Cyber Security Framework (CSF). Students develop competencies to utilize NIST RMF Steps 2-3/FedRAMP Steps 2.
Prerequisites: CYPD 431

CYPD 433 Cybersecurity Compliance Methodologies Lab II (3 Credit Hours)
In a virtual lab system, students execute the NIST RMF Steps 2-3: Security Control Assessment, and complete the associated analysis and documentation as required by NIST/FedRAMP/CMMC.
Prerequisites: CYPD 432

CYPD 630 Cybersecurity Compliance Methodologies I (3 Credit Hours)
Students review and analyze the concepts and interrelationships underlying cybersecurity compliance methodologies, including the NIST Risk Management Framework (RMF); Federal Risk and Authorization Management Program (FedRAMP); NIST 800-171; CMMC; NIST Cyber Security Framework (CSF); and NIST 800-53. Students develop competencies to utilize NIST RMF Steps 1-3/FedRAMP Steps 1-2.

CYPD 631 Cybersecurity Compliance Methodologies Lab I (3 Credit Hours)
In a virtual lab system, students execute the NIST RMF Steps 1-3: Categorization, Security Control Selection and Security Control Assessment, and complete the associated analysis and documentation as required by NIST/FedRAMP/CMMC.

CYPD 632 Cybersecurity Compliance Methodologies II (3 Credit Hours)
Students develop the competencies to utilize the NIST RMF, Steps 4-6: Implementation, Authorization and Monitoring /FedRAMP, Steps 3-4. Students analyze how these steps relate to the CMMC accreditation process.

CYPD 633 Cybersecurity Compliance Methodologies Lab II (3 Credit Hours)
In a virtual lab system, students execute NIST RMF Steps 4-6: Implementation, Authorization and Monitoring, and complete the associated analysis and documentation, as required by the NIST/FedRAMP/CMMC frameworks.

CYPD 634 Audit and Risk Assessment Methods (3 Credit Hours)
Students review and analyze selected CISA, CISM, and CRISC audit and assessment function domains. Utilizing their domain knowledge, students complete case study audit and assessment tasks.

CYPD 635 Compliance Frameworks for the Enterprise (3 Credit Hours)
Students compare and contrast multiple compliance frameworks including ISO 27001, California Consumer Privacy Act (CCPA), Health Insurance Portability and Accountability Act (HIPAA), Payment Card Industry Data Security Standard (PCI DSS), and Service Organization Control 2 (SOC2). They will examine selected intersections and redundancies in these frameworks and how to address them in a global context. Their analysis will include examining crosswalks between the NIST RMF and selected frameworks.