**CYBR - CYBERSECURITY**

**CYBR 602/CSCE 702 Law and Policy in Cybersecurity**
Credits 3. 3 Lecture Hours.
Law and policy issues related to cybersecurity including procurement, operations, maintenance, governance, oversight, protection, defense; analyze law, policies, and regulations domestically and globally.
Prerequisite: Graduate classification.
Cross Listing: CSCE 702/CYBR 602.

**CYBR 603/CSCE 703 Cybersecurity Risk**
Credits 3. 3 Lecture Hours.
Risks in cybersecurity; avoidance, acceptance, mitigation or transference strategies; developing reliable cybersecurity risk assessments to include analysis, categorization and evaluation; cybersecurity risk audit frameworks.
Cross Listing: CSCE 703/CYBR 603.

**CYBR 630/ECEN 759 Hardware Security**
Credits 3. 3 Lecture Hours.
Cryptography and cryptographic algorithms such as AES, DES and others; techniques to optimize hardware implementation of cryptographic systems; different types of side-channel attacks and countermeasures; supply-chain vulnerabilities including hardware Trojans, counterfeits, IP piracy and reverse engineering; security modules for system-on-chip; physical unclonable functions.
Prerequisites: ECEN 468, ECEN 474, or approval of instructor.
Cross Listing: ECEN 759/CYBR 630.

**CYBR 660/INTA 690 Cybersecurity Literacy for the Global Arena**
Credits 3. 3 Lecture Hours.
Research technical literacy in cybersecurity; exploration of cybersecurity in applied settings to include private and public sector; use of cybersecurity literacy to develop policy guidelines; examination of intent of cyber-actors; technical and policy risk-mitigation strategies.
Prerequisite: Graduate classification or approval of instructor.
Cross Listing: INTA 690/CYBR 660.

**CYBR 661/PSAA 608 Cybersecurity Policy, Issues and Operations - A Manager’s Guide**
Credits 3. 3 Lecture Hours.
Overview related to U.S. homeland defense and homeland security; includes cyber threats; cyberwar; securing cyberspace in public and private sector; protecting data, systems and networks that are connected to the Internet and the Internet of Things.
Prerequisite: Graduate classification.
Cross Listing: PSAA 608/CYBR 661.

**CYBR 684 Professional Internship**
Credits 0 to 6. 0 to 6 Other Hours.
Directed internship in an organization to provide students with a learning experience supervised by professionals in organizational settings appropriate to the student’s professional objectives.

**CYBR 685 Directed Studies**
Credits 0 to 12. 0 Lecture Hours. 0 Lab Hours. 0 to 12 Other Hours.
Directed individual study in cybersecurity. May be repeated for credit.

**CYBR 689 Special Topics in...**
Credits 0 to 4. 0 Lecture Hours. 0 Lab Hours. 0 to 4 Other Hours.
Selected topics in an identified area of cybersecurity. May be repeated for credit.

**CYBR 691 Research**
Credits 0 to 12. 0 Lecture Hours. 0 Lab Hours. 0 to 12 Other Hours.
Research conducted under the direction of faculty member in cybersecurity topics. May be repeated for credit.