## 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.