

CYBERSECURITY (CSEC)

CSEC 110 Principles of Cybersecurity 3 Credits (3)

Course covers contemporary trends in cybersecurity including understanding characteristics of security vulnerabilities as they relate to hardware, software, data, procedures, and user actions.

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CSEC 275 Introductory to Cryptography 3 Credits (3)

Introduction to the foundation of cryptography, principles behind cryptographic design, and cryptographic applications. Topics include encryption techniques, common cryptographic protocols and security functions.

Prerequisite(s)/Corequisite(s): MATH 1215 or above

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CSEC 280 Introduction to Cyber Defense 3 Credits (3)

Introduction to the foundation of cryptography, principles behind cryptographic design, and cryptographic applications. Topics include encryption techniques, common cryptographic protocols and security functions.

Prerequisite(s)/Corequisite(s): MATH 1215

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CSEC 283 Ethical Hacking and Penetration Testing 3 Credits (3)

Introduces students to the tools and software used in ethical hacking and penetration testing as well as introducing them to some of the vulnerabilities and exploits that exist within the cybersecurity field.

Prerequisite(s): E T 153 and E T 156

Prerequisite(s)/Corequisite(s): E T 283

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CSEC 285 Introduction to Managing Information Security 3 Credits (3)

Managerial aspects of information security and assurance including access control models, information security governance, accountability metrics, legal responsibilities, and information security program assessment.

Prerequisite(s)/Corequisite(s): OECS 269

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CSEC 286 Information Security Certification Preparation 4 Credits (4)

Covers the examination objectives and detailed preparation to prepare students to take the CompTia Security+ exam.

Prerequisite(s): E T 153, E T 156, and E T 283

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