

# CET-CMPTR ENGINEERING TECH

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## **CET 2660 Network Security Fundamentals (3 Credits)**

This course is an introduction to the language and underlying theory of computer security that covers the essential knowledge and skills for securing systems and/or organizations. Topics include: General Security Concepts, Communications Security, Infrastructure Security, Basics of Cryptography and Operational/Organizational Security. CompTIA Security + objectives are used.

**Prerequisite:** C or higher in CTS 2134, equivalent industry certification, or documented consent of instructor

## **CET 2664 Encryption and Cryptography (3 Credits)**

This course covers the core cryptographic principles essential for modern cybersecurity. Learners explore the contrast between symmetric and asymmetric encryption, understand the role of hash functions in data integrity, and learn how cryptography secures authentication. The course further covers digital certificates, digital signatures, and common cryptographic standards, providing a solid foundation for understanding and implementing robust security measures.

**Prerequisite:** C or higher in CET 2660, or it may be taken as a corequisite

## **CET 2880 Digital Forensics (3 Credits)**

The focus of the term will be the application of IT system forensics, investigation, and response skills. There will be an emphasis on the fundamentals of systems forensics, the tools, techniques, and methods used to perform computer forensics and investigation, and exploration of incident and intrusion response, emerging technologies, and future directions of this field. The student gains hands-on experience using various forensic investigation techniques and standard forensic tools necessary to successfully carry out a computer forensic investigation leading to prosecution of perpetrators.

**Prerequisite:** C or higher in CTS 2134 or documented consent of instructor