

# CET: Computer Engineering Technology Courses

---

## Courses

CET 3450 Data Visualization  
3 sh (may not be repeated for credit)

Students will develop skills to efficiently and effectively display data, using a variety of tools that can be used to prepare and present the data in visually compelling manners. Data visualization tools have wide applicability in a wide variety of settings and environments in documentation and presentations.

CET 4454 Technology Systems Implementation Strategies  
3 sh (may not be repeated for credit)  
Prerequisite: CET 4743

Examines the processes and challenges posed by those processes involved in the conception, planning and implementation of a technology systems project. Learners will develop model documents for each process and each phase of the project implementation process.

CET 4743 Network Systems Architecture, Operations and Management  
3 sh (may not be repeated for credit)  
Prerequisite: CGS 2920 AND COP 2830

Students will develop skills and abilities to effectively design, operate and manage a networked system. Network-related fault management, configuration, security, performance, and utilization measurements will be addressed. Lessons will include in-depth examination and appropriate applications in each functional area. Hardware and software tools that.

CET 4772 Cloud Computing Operations and Security  
3 sh (may not be repeated for credit)  
Prerequisite: CET 4743 AND CGS 3763

Students will develop skills and abilities to effectively design, operate manage and distribute applications and services on the cloud. Lessons will include discussion on implementing infrastructure and applications as a service, virtualization on the cloud, and securing applications and services on the cloud.

CET 6666 NOPS Project  
3 sh (may be repeated for up to 6 sh of credit)

Students enrolled in the MSIT/NOPS degree program are required to complete a two course, six-credit hour, capstone project. Students will work in consultation with their instructor and an identified industry host to identify and complete a complex project related to their program of study. Students synthesize and apply knowledge developed during the academic program to identify, propose and develop solutions to meet the complex networking needs of the host organization. This is the first course in the two course sequence.

CET 6790C Network Infrastructure and Operations  
3 sh (may not be repeated for credit)

Explores the workings related to computer communications, formation of networks, various networking operations and implementation strategies, and recent trends in networking. COP 2253 is a concurrent prerequisite for this course. Students must have completed the course with a minimum grade of B prior to enrollment or be enrolled in the course concurrently.

CET 6882C Network Performance Monitoring and Security  
3 sh (may not be repeated for credit)

Examines network performance, strategies to optimize network performance and protocols related to network security. COP 2253 is a concurrent prerequisite for this course. Students must have completed the course with a minimum grade of B prior to enrollment or be enrolled in the course concurrently.