

MAJOR IN COMPUTER ENGINEERING, NETWORKS AND DATA CONCENTRATION

Networking is a rapidly evolving field that focuses on the ubiquitous connectivity of people, machines, and things. Whether shopping online, using GPS navigation, or connecting with friends on social media, our online activities are on the rise – and we are straining our technology infrastructure with the mind-boggling amounts of data we generate every day. Combining topics from electrical engineering, computer science, and mathematics, this concentration will teach students how to optimize and bolster network systems that process the ever-growing volume of data we produce through our high-tech gadgets and applications. Experiencing first-hand the innovative technologies that fuel the digital information revolution, students will work on complex engineering problems, such as emerging 5G/6G networks, deep-space communication, Internet of Things, and social networks. The concentration offers an electrical and computer engineering foundation with specialized training in the networks field. Coursework focuses on applications of key engineering principles in the areas of digital systems, communication systems, robotics, embedded systems, cybersecurity and more.