

# Wichita State University

## Department of Electrical Engineering and Computer Science

### Master of Science in Computer Networking

The Department of Electrical Engineering and Computer Science will offer a new graduate degree in the area of computer networking. This area has become an essential component of any effort for economic and social progress. Demand for networking experts is expected to multiply exponentially during the next two decades, as more small businesses and individual citizens “go online.”

#### **A Promising Career**

As hardware technology continues to advance at a very high rate, computers will become even more integrated into all sectors of our society. Indeed, we have started to witness “society” being redefined at a global scale, where business owners, doctors, engineers and other professionals can provide their services across the Globe in real time. Most organizations have started to encourage their customers and employees to utilize online services. Such unprecedented integration of computer technology into various aspects of ordinary life will make it very difficult for any individual citizen or business of any size to remain offline for any period of time. This is certain to increase the demand for networking experts who would design, deploy, support, and maintain computer networks. According to the Bureau of Labor Statistics (BLS), “growth in network and computer system administrator jobs will be much faster than average” in the next ten years. As posted on [www.bls.gov](http://www.bls.gov), employment in the computer networking area is projected to increase by 27%. Graduates of this new program will have expertise in both hardware and software technologies which will prepare them for a successful career to meet the growing demand for networking experts. A degree with a title that accurately reflects a student’s educational background is certain to enhance employment opportunities.

#### **Program Structure**

The Master of Science in Computer Networking is a comprehensive degree program that prepares graduate students for careers in Computer Networking and Information Security. The curriculum structure provides the students with an integrated experience in system engineering, economics, architecture and policies of computer communication networks. These topics are covered in the required core courses. The program encompasses courses offered by departments in several colleges, including Engineering and Liberal Arts and Sciences as well as the Barton School of Business. The comprehensive nature of the program aims at enhancing the strong ties

that Wichita State University currently enjoys with various companies, including Cisco Systems and LSI among others.

### **Degree Requirements**

To fulfill the degree requirements, a student must complete the courses on an individual plan of study to be approved by an advisor, the Graduate Coordinator, and the Dean of the Graduate School. A student's plan of study will ensure sufficient depth in both theory and application of computer networking by completing specific required core courses. It will also provide enough flexibility by allowing the students to choose courses from a wide range of electives to satisfy their individual career goals. This is what makes it a unique and comprehensive program.

### **Admission Requirements**

The MS in Computer Networking Program is intended for graduate students with a bachelor degree majoring in engineering or an area related to information technology. Students from other areas may be admitted conditionally and will be required to complete some undergraduate courses to be prescribed by the Graduate Coordinator at the time of admission. To qualify for admission to the Program, a student must have earned a GPA of, at least 3.00 in the last 60 hours of undergraduate study.

### **More Information**

For more information, please contact

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