

# NETWORK & COMMUNICATION MANAGEMENT & SERVICES

36 credits (18 months) | STEM | Full or part time | On campus or online

New technologies — 5G, software-defined networking, network function virtualization and the internet of things — are creating significant changes to network design and operation while enabling the development of new services. Skills in these emerging areas are in high demand at service providers, over-the-top and infrastructure providers, and organizations with large corporate networks. The interdisciplinary master's in Network & Communication Management & Services gives professionals the skills and insights needed to take on leadership roles in a challenging, fast-changing networking and services environment.

## CURRICULUM OVERVIEW

The curriculum is structured around a six-course block of specialized classes, supported by three management offerings and a three-course, customizable specialization.

### MANAGEMENT

Courses in this block provide essential financial and management skills that prepare you to apply your technical abilities in a corporate setting while leading projects and teams.

- Project Management Fundamentals
- Financial Decision Making
- Organizational Behavior and Design

### NETWORKING AND SERVICES

These courses prepare you to plan, implement and manage leading-edge networks and services, and think critically about new technologies and their role in developing new service offerings that take advantage of evolving networks.

- Principles of Applied Telecommunications Technologies
- Business Information Networks
- Wireless Communications and Mobile Computing
- Broadband Networking Services and Technology
- Regulation and Policy in the Telecommunication Industry
- Probability and Stochastic Processes

### SPECIALIZATION

Elective courses in this program can be selected from multiple disciplines, and include topics such as 5G mobile wireless, software-defined networking, network function virtualization, the internet of things, cybersecurity, computer science, data analytics, electrical engineering, management and more. Students seeking additional structure may choose from the following options, both of which include an extensive list of elective courses from which to choose.

#### MANAGEMENT OF WIRELESS NETWORKS

These courses prepare students to master technologies related to 5G and emerging wireless networks, including security and SDN.

#### MANAGEMENT OF BROADBAND COMMUNICATIONS AND CONVERGED NETWORKS

This concentration will prepare you to manage the technologies that will power the communications and services networks of the future.



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