

# TELECOMMUNICATIONS SYSTEMS AND NETWORKS, MS

**Campus:** NYC, Westchester

In an increasingly interconnected world, telecommunications professionals need both a strong foundation and the skills and knowledge to foster innovation. No program provides a greater understanding of the field of telecommunications than the 36-credit Pace Master of Science in Telecommunications Systems and Networks.

Specifically designed to offer students a comprehensive and multifaceted education in computer networking and telecommunications, this curriculum covers all the significant aspects including technology, management, and policy. It emphasizes current and emerging Internet-related technologies and applications. The broad nature of the program is ideal for those who wish to enter the field of telecommunications, or current professionals looking for that edge to stay ahead in this ever-changing industry.

## Bridge Courses (0-9 Credits)

An entering student with limited or no previous background in the field of computer science or programming may be required to take up to 9 credits of prerequisite bridge coursework. A student with a baccalaureate in computer science should be able to waive these prerequisites. For others, some or all of the following courses may be required. Bridge courses do not count toward total required credits.

Code	Title	Credits
CS 502	Fundamentals Computer Science I using Java	3
CS 504	Fundamentals Computer Science II using Java	3
CS 506	Computer Systems and Concepts	3

## Program Requirements (36 Credits)

Code	Title	Credits
<b>Core Requirements</b>		
CS 607	Simulation and Computer Network Analysis	3
CS 633	Data Communications and Networks	3
CS 634	Computer Networking and the Internet	3
CS 636	Optical Communications and Networks	3
CS 637	Wireless Communications	3
CS 654	Security in Computer Networking	3
IS 650	Telecommunications Management	3
IS 652	Telecommunications Policy and Environment	3
IS 654	Cases in Telecommunication Systems	3
<b>Recommended Electives</b>		
Select nine credits of the following: <sup>1</sup>		9
CS 600	Independent Study in Graduate Computer Science	
CS 612	Concepts and Structures in Internet Computing	
CS 642	Network Programming and Distributed Applications	
CS 644	Web Computing	
CS 653	Cryptography and Computer Security	
IS 617	Information Systems Principles	
IS 623	Information Systems Design and Development	
IS 635	Distributed Information Systems	
IS 641	Information Security and Controls	
<b>Total Credits</b>		<b>36</b>

<sup>1</sup> Electives may be selected from both the Computer Science (CS) and the Information Systems (IS) offerings. Students are advised to note the prerequisite requirements for particular electives, and to contact their adviser with any questions concerning appropriate electives.