

Computer Networks

MASc / MEng

ryerson.ca/graduate



Computer Networks

Established in 2001 with the support of Cisco Systems, this leading program offers advanced skills that are in high demand in the networking industry. Our focus remains on innovative, quality learning with emphasis on practical knowledge that empowers students to reach their career goals.

Research Areas

- Network Architecture
- Network Security
- Software-Defined Networking
- Wireless Networks

Courses

- Advanced Topics in Network Security
- Advanced Wireless Networks
- Introduction to Computer Networks
- IP Protocols
- LAN and WAN Switching
- Multimedia Networks
- Multimedia Processing and Digital Communication
- Network Architecture
- Network Design
- Network Mathematics and Simulations
- Network Operating Systems
- Network Security
- Network and Service Management
- Server Networks
- Storage Networking
- Wireless Networks

Admissions Information

MEng

- Completion of a four-year bachelor's degree
- Minimum grade point average (GPA) or equivalent of 3.00/4.33 (B) in the last two years of study
- Undergraduate study in Electrical, Computer Science, Mathematics or Physical Sciences related to communication networks
- Two letters of recommendation
- Resumé/CV

MASc

- Completion of a four-year bachelor's degree in Electrical Engineering or a related field
- Minimum GPA or equivalent of 3.33/4.33 (B+) in the last two years of study
- Two letters of recommendation
- Resumé/CV

Applicants may be required to provide certification of English language proficiency. For more information, visit ryerson.ca/graduate/futurestudents/admissions/english-language.html.

Resources

- Cloud Computing Lab
- Network Security Lab
- Routing and Switching Lab
- Voice Over IP Lab
- Wireless Lab





“It gives you the opportunity to learn the principles behind the computer network, applying it with the latest network technology by practicing it on the most popular devices in the industry.”

– Liyi Huang, MAsc student

International Students

International Student Support (ISS) provides comprehensive support for the international student community at Ryerson.

ryerson.ca/internationalsupport

Program Contact

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