

Applied Computer Technology

www.rit.edu/ICS

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Program Overview for Employers

The **Applied Computer Technology (ACT)** program for deaf and hard-of-hearing students at Rochester Institute of Technology (RIT) prepares students for careers in the area of information technology.

Graduates are well qualified and prepared for jobs as computer technicians, computer support specialists, network technicians and network security specialists.

Degrees Awarded

- Associate in Applied Science (AAS)
- Associate in Occupational Studies (AOS)
- Associate in Science (AS)

Potential Job Candidates

Approximately 100 students currently are enrolled in this program.

Cooperative Education (Co-op) Component Required

Students get valuable workplace experience by completing one required 10-week co-op block.

Equipment and Facilities

ACT students study in six different computer labs:

- **Two Hardware Labs**
Students learn Windows, Apple, and Linux Operating Systems. Computer components and diagnostic software are used for hands-on work as they develop skills in upgrading, repairing, trouble-shooting and maintaining computers and computer peripherals.
- **Two Networking Labs**
Students learn to network and secure various platforms of client and server computer systems along with applying hardware/software diagnostic and security tools to develop hands-on networking skills.
- **Mobile Application Development Lab**
In this lab, students receive instruction in a variety of different technologies, including Web development, introductory programming database applications and mobile phone applications. Students learn in a hands-on, highly interactive lab environment.

- **Self-Instruction Lab**

Students use this open lab to complete assignments independently or with teams.

Student Skills and Capabilities – Preparation for a Career

Students acquire a strong foundation in computer hardware and operating systems, computer networking and security, and computer applications such as MS Office, database and Web development software and Windows and Unix-based operating systems. All students must take core courses in PC hardware and operating systems, networking and basic Web development, as well as courses in introductory programming and database technology, regardless of the concentration they choose. In the second year of the program, students choose a concentration in one of the following areas:

- **Computer Technical Support**

In addition to core courses, this concentration requires students to take advanced courses in helpdesk support, digital technology integration and computer and data security as well as network administration. The concentration prepares students to work in a business environment repairing, upgrading and interfacing computers as well as working with peripherals and networks. Students can study for and attain A+ certification.

- **Networking and Cyber Security**

In addition to core courses, this concentration requires students to take in-depth networking security, network administration and server administration courses focusing on setting up and securing corporate networks. Students can study for and attain A+ and Network+ certifications.

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Students also choose several electives from within Information and Computing Studies or other majors at RIT/NTID, including, but not limited to, programming languages, advanced Web development and certification studies.

Selected Software and Hardware Used to Develop Technical Skills

Software

C#
Data Recovery
MS Office

Operating System Software

Linux, Apple & Windows (current
And past versions)

Hardware

Cisco routers and switches
x86 and x64 computers

Selected Technical Courses Leading to an Associate Degree

Client-Server Networks

Computer & Data Security

Digital Systems Integration

Fund. of Systems Administration

Help Desk Support

Intro to Database Applications

Intro to PC Hardware

Intro to Programming

Intro to Web Development

LAN/WAN Design

Network Defense Technologies

Networking Essentials

Non-Windows Operating Systems

Server Management & Security

Technical Capstone

Windows Operating System

The following employers throughout the country have hired Applied Computer Technology students and graduates:

Adobe

American School for the Deaf

Federal Emergency

Management Agency

Google

IBM

Mediacom Communications
Corporation

Ohio Health Corporation

Rhode Island School for the

Deaf

Rochester School for the Deaf

Social Security Administration

Sorenson Communications

University of Massachusetts-

Amherst

U.S. Department of Homeland

Security

ZVRS

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RIT/NTID co-op students, graduates and alumni provide employers with highly trained, highly motivated employees with excellent skills. We appreciate your interest in our co-op students and graduates and will work with you through the recruiting process to help you hire the right employee. **For your convenience, access further information and services on our website at www.rit.edu/ntid/nce.**