

Mobile Application Development

www.rit.edu/ntid/mad

Program Overview for Employers

The **Mobile Application Development (MAD)** program for deaf and hard-of-hearing students at Rochester Institute of Technology (RIT) prepares students for careers in the area of web and mobile computing/software development. **Graduates are well qualified and prepared for jobs as application developer, web/mobile designer and/or developer, and software developer.**

Degree Awarded

- Associate in Applied Science (AAS)

Cooperative Education (Co-op) Component Required

Students get valuable workplace experience by completing one required 350 hour (approximately 10 weeks) co-op block.

Equipment and Facilities

MAD students study in three different labs:

- **Mobile Computing Lab**
Students use a variety of hardware and software in the mobile lab. The hardware includes Desktop PCs, Windows and Apple laptops, a variety of tablets and smartphones, and various types of wearable technology.
The software applications include, but are not limited to mobile app development, web development, graphics, database and other applications software.

- **Multimedia Lab**

In this lab, students receive instruction in a variety of different technologies including programming, web development, and database application. Students learn in a hands-on, highly interactive lab environment.

- **Self-Instruction Lab**

Students use this open lab to complete assignments independently and work in study groups.

Student Skills and Capabilities – Preparation for a Career

Students acquire a strong and balanced foundation in mobile app design and development.

With significant programming and cross-platform development coursework as well as coursework in basic graphics, user experience, user interfaces, web development, data modeling and data retrieval and usage, students are knowledgeable of all aspects of the mobile app development cycle. In addition, students take a business and innovation course and a mobile app development capstone projects course, during which time they work under the direction of an industry professional and are mentored by department faculty to design, build, and publish an app.

Mobile Application Development

Selected Software and Hardware Used to Develop Technical Skills

Software

- Java
- HTML/PHP/JavaScript
- .Net (C#)
- SQL/SQLite
- Visual Studio
- Xamarin

Operating System Software

- Android (current and past versions)
- iOS (current and past versions)
- macOS (current and past versions)
- Windows

Hardware

- Desktop PCs
- Laptops (Windows & MAC)
- Smartphones (Various)
- Tablets (Various)
- Wearable Devices

Selected Technical Courses Leading to an Associate Degree

Development Courses

- Mobile App Development I
- Mobile App Development II
- Mobile App Development Capstone Projects
- Programming Fundamentals I: Mobile Domain
- Programming Fundamentals II: Mobile Domain

Design Courses

- Mobile User Experience
- Mobile User Interfaces
- Survey of Emerging Visual Design

Web and Database Courses

- Database and Data Modeling
- Website Development
- Web and Mobile II
- Web Services and Data Storage Technologies

Other Courses

- Intro to Entrepreneurship
- The World of Work

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