

## IT Certifications

The School of Information Technology offers offers four professional certificate programs in Information Technology (IT). This certificate is designed for individuals wishing to gain additional knowledge and skills in the field of IT. Furthermore, professionals wishing to renew and/or acquire skills and knowledge that are current in IT can also use this learning path to enhance their career goals. The certificate is designed to help students apply as well as integrate current computing technologies to expand their fields of expertise and enhance career objectives.

As the modern society becoming more and more intertwined with technology, IT quickly turns into any productive individual's must-acquired skill. Regardless of an individual's career objectives, a concentrated study in IT in a relatively short period of time shall certainly enhance his/her skills in the work place, as well as widen the prospect of career choices.

### **Certificates in Information Technology**

- [Mobile Application Development](#)
- [Foundations in Cybersecurity](#)
- [Database Management](#)
- [Networking](#)
- [Software Development](#)
- [Webmaster](#)

## Who should Enroll

If you are working in the information technology field or are interested in working in that field and wish to acquire or update knowledge and skills, **this program is for you.**

If you are employed in the field and wish to obtain certification for career advancement, without the time commitment of pursuing a degree, **this program is for you.**

If you are working toward a degree and wish to obtain additional certification, **this program is for you.**

## Certificate Requirements

To apply for an IT certificate, the student must have completed a baccalaureate degree. To obtain the IT certificate, a student prior to graduation, must have successfully completed 30 credit hours of 100+ level course work in IT.

You are eligible to receive a certificate when you have successfully completed the agreed upon courses.

A 2.0 average must be achieved in these courses to receive the certificate.

To receive the information technology certificate (suitable for framing), a written request must be submitted to the academic director within one year of program completion. All required courses must be completed within a two-year period from date of acceptance into the program.

## To Apply

- A student should complete the application form. **Application Form:** [Online Certificate Application Form](#)
- Send the transcripts from the previous institution. Please send official copies of the transcript(s) to:

Office of Admissions  
University of Cincinnati  
PO Box 210091  
Cincinnati, OH 45221-0091

For international correspondence or express deliveries:

Office of Admissions  
University of Cincinnati  
University Pavilion Building  
Room 340  
2624 Clifton Ave.  
Cincinnati, Ohio 45221-0091 USA

You may send electronic copies to [Ethan.Fletcher@uc.edu](mailto:Ethan.Fletcher@uc.edu), [Kelly.Rawe@uc.edu](mailto:Kelly.Rawe@uc.edu), or [Elaine.Shafer@uc.edu](mailto:Elaine.Shafer@uc.edu).

- Upon acceptance, the student must meet with their IT Advisor- [Ethan Fletcher](#) (last names P-Z), [Kelly Rawe](#) (last names A-G), or [Elaine Shafer](#) (last names H-O) within 30 days of acceptance to develop the plan of study (otherwise, their acceptance will be void)
- The plan of study must be signed and returned by the student no later than 30 days from the date of the meeting with the adviser (otherwise, their acceptance will be void).

## Course Registration

You can register for courses online.

Registration dates and an academic calendar are published on UC's website.

For current information on these certificate programs and links to online university course registration and payment procedures, please visit the website.

## Certificate in Mobile Application Development

The Mobile Application Development certificate is a hands-on certificate that will empower individuals to develop apps for current and emerging platforms for mobile devices (phones, tablets, Smart TV, etc).

The following courses are being suggested as a template. Students can design their own learning path with the agreement of the department.

Learning Outcomes:

- Describe the impact of mobile devices and its impact on businesses and organizations.
- Explain the concepts of object oriented programming.
- Explain the basic principles in user interface design.
- Develop software applications for mobile devices on different platforms.

**Update!** Semester-based Curriculum (beginning Aug. 27th, 2012)

Course Number	Course Name
IT1044C	Into to Mobile Development
IT1045C	Basic iPhone Development
IT1046C	Basic Android Development
IT2048C	Mobile Web Development
IT3041C	Advanced iOS Development
IT3042C	Advanced Android Development

### **Certificate in Foundations of Cybersecurity**

The Foundations of Cybersecurity certificate is an interdisciplinary undergraduate certificate that empowers students from multiple disciplines to define and understand the behavioral, technical, and policy challenges of securing cyberspace and digital life.

The following courses are being suggested as a template. Students can design their own learning path with the agreement of the department.

#### Learning Outcomes

- Demonstrate base competency in the behavioral, political/strategic, and technical aspects of Cybersecurity.
- Achieve collaborative skills to perform as a constructive and effective member of an organization's multidisciplinary Cybersecurity team.
- Appraise opportunities to create new perspective for problem-solving in Cybersecurity.
- Conduct qualitative, quantitative and archival research.
- Synthesize research and ideas to develop an understanding of multiple Cybersecurity frameworks.

**Update!** Semester-based Curriculum (beginning Aug. 27th, 2012)

Course Number	Course Name
IT1050	Fundamentals of Information Technology
CJ1001	Introduction to Criminal Justice
IT1081C	System Administration
IT2030C	Information Security and Assurance
POL2035	Cybersecurity Strategy and Policy
CJ4020	Criminal Procedures
IT5035C	Cyberattack Red Team Collaborative Seminar*

\* Students in Arts & Science should sign up for POL5035C.

Please note that courses are offered throughout the year except IT5035C, which is offered only in the spring semester. POL2035 is a new course that will be offered starting this fall.

## Certificate in Database Management

**This** certificate is intended to provide an in-depth understanding of database technologies. This certificate is ideal for new or existing database administrators and data administrators. This certificate covers the full spectrum of database topics in order to prepare students and practitioners to be knowledgeable in database concepts, terminology, design methods and techniques.

The following courses are being suggested as a template. Students can design their own learning path with the agreement of the department.

Course Number	Course Name
IT 1050	Fundamentals of IT
IT 1090C	Computer Programming I
IT 2045C	Computer Programming II
IT 2030C	Information Security and Assurance
IT 2060C	Database Management I
IT 3060C	Database Management II

## Certificate in Networking

**This** certificate has been specifically developed to provide the participants with a practical understanding of networking. This certificate is targeted for the roles of local area network or other network administrators. It covers the practical day-to-day issues necessary to allow effective operation and management of networks. The participants will learn the components of a network, how the components of a network should be designed, selected and implemented as well as how information is moved throughout a network.

The following courses are being suggested as a template. Students can design their own learning path with the agreement of the department.

Course Number	Course Name
IT 1050	Fundamentals of IT
IT 1080C	Networking
IT 2030C	Information Security and Assurance
IT 1081C	System Administration
IT 2035C	Network Infrastructure Development
IT 4035C	Network Security

## Certificate in Software Development

[This](#) certificate is designed to provide extensive experience in all facets of software development. This certificate is intended for programmers, program analysts, systems analysts and software engineers at all levels to accelerate their skill development. This certificate provides a strong foundation in software development with an emphasis on systems analysis and design, coding, testing and project management.

The following courses are being suggested as a template. Students can design their own learning path with the agreement of the department.

Course Number	Course Name
IT 1050	Fundamentals of IT
IT 1090C	Computer Programming I
IT 2045C	Computer Programming II
IT 2060C	Database Management I
IT 3020	Systems Analysis & Design
IT 3045C	Contemporary Programming

## Webmaster Certificate

[This](#) certificate is designed to provide core skills to become a proficient Webmaster. This is a vendor neutral certificate program. The following courses are being suggested as a template. Students can design their own learning path with the agreement of the department.

Course Number	Course Name
IT 1050	Fundamentals of IT
IT 1051C	Fundamentals of Digital Media
IT 1090C	Computer Programming I
IT 2040C	Fundamentals of Web Development
IT 2045C	Computer Programming II
IT 3046C	Client-Side Web Programming

IT Student Advisors:

[Ethan Fletcher](#), [Kelly Rawe](#), and [Elaine Shafer](#)