COUNTY COLLEGE OF MORRIS

CERTIFICATES OF ACHIEVEMENT

- Information Security
- Media Technology
- Web Development

WHAT YOU WILL LEARN

The Department of Information Technologies certificates of achievement are designed for current or future professionals who seek careers or who wish to improve their technical knowledge and skills, in various computer-related areas. Each certificate of achievement includes a balance of theory and hands-on experience. The certificates is designed for full-time and part-time students who are working or plan to work in one of these areas.

WHY STUDY COMPUTER INFORMATION SYSTEMS AT CCM?

These certificates are designed to be earned while in a full Information technology degree program. Most classes in a certificate overlap with the corresponding degree to make the completion of the certification available before or at the same time as the completion of an associate degree program.

CONTACTS

Information Technologies Department
973-328-5780
Emeriti Hall, Room 225
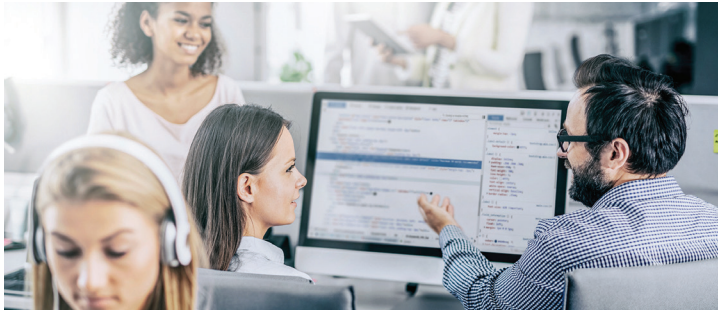
Website:
www.ccm.edu/infotech

Facebook:
www.facebook.com/CCMITDept

Instagram and Twitter:
@CCMITDept

Curriculum Checksheet: www.ccm.edu/checksheets

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WEB DEVELOPMENT CURRICULUM

The Certificate in Web Development is designed to provide an understanding of creating Web pages using basic and advance Hypertext Markup Language (HTML) concepts, along with an introduction to JavaScript, and some basic programming concepts. Basic skills in a variety of Internet specialties such as Internet Protocols, Internet Addressing and Internet Naming Schemes. Basic training in configuring and utilizing email, FTP, news and browser software. Basic applications using the leading Web development languages and standards. Students gain an understanding of how to use advanced graphic techniques to create visually attractive graphics and advanced design techniques to create navigationally sound Web pages. This is a program for individuals who are interested in augmenting their current skills or interested in a career change. Articulation with the Information Technology and Digital Media Technology degree program for those students wishing to continue toward an associates degree.

COURSE	CR
The Internet and Web Page Design	3
Web Design II	3
Web Design Workflow	4

Restricted Electives* (6 CR)

Choose two courses from the following list

Computer Science I	3
Mobile App Design	3
Foundations of Information Security	3
Database Programming (Oracle)	3
Multimedia I	3
Multimedia II	3
Digital Media Production	3
Animation	3
Advanced Animation	3
Advanced Web Programming	3

Total Certificate Credits	**16**

MEDIA TECHNOLOGY CURRICULUM

The Certificate of Media Technology is designed to provide training in the area of digital technology as it affects the field of media. Students gain an understanding of electronic visual communications, an introduction to computer-based media platforms and basic skills in a variety of media production specialties. The program provides a grounding in media technology for individuals who already hold a post-secondary degree and who are interested in a career change or enhancement of current skills. A professional certificate for those individuals requiring such certification for job placement or advancement. Articulation with the New Media Technology degree program for those students wishing to continue toward an associate degree.

COURSE	CR
Multimedia I	3
Digital Media Production	3

Restricted Electives* (9 CR)

Choose three courses from the following list

Game Design Concepts	3
Internet and Web Page Design	3
Web Development Workflow	4
Multimedia II	3
Media Aesthetics	3
Digital Video Editing	3
Television Production I	3
Television Production II	3
Animation	3
Advanced Animation	3
Special Topics in Media	3
Broadcast Journalism	3
Introduction to Electronic Music	3
Introduction to Music Recording	3
Photography I	3
Digital Imaging I	3

Total Certificate Credits	**15-16**

Note: You must see a faculty advisor to plan your sequence of courses. For the most up-to-date listing of courses, see the Curriculum Checklist for this program on the CCM website at www.ccm.edu/checksheets

INFORMATION SECURITY CURRICULUM

CCM is the first community college in New Jersey to be designated by the National Security Agency and the Department of Homeland Security as a National Center of Academic Excellence in Cyber Defense Two-Year Education (CAE2Y).

CCM has been a local and national leader in Information Security education for over two decades. CCM has been a certifying institution for the NSA's NSTISSI-4011 National Training Standard for Information Systems Security (INFOSEC) Professionals.

Our faculty is recognized nationally as expert educators and have been leaders in setting the direction of our nation's information security curriculum. The mission is to educate our future cybersecurity professionals, increase awareness for students in other disciplines and prepare our greater community to be better cyber citizens.

This program is mapped to the NSA/DHS CAE2Y Knowledge Unit Standards.

COURSE	CR
Foundations of Information Security	3
Network Security	3
Information Security Management	3

Restricted Electives* (6 CR)

Choose two courses from the following list

Introduction to Criminology	3
Criminal Justice System	3
Software Engineering	3
Computer Science I	3
Ethical Hacking and Systems Defense	3
Ethics	3
Routing I	3
Routing II	3
Digital Forensics I	3
Digital Forensics II	3
Special Topics in Information Technologies	3

Total Certificate Credits	15

Note: You must see a faculty advisor to plan your sequence of courses. For the most up-to-date listing of courses, see the Curriculum Checklist for this program on the CCM website at www.ccm.edu/checksheets