# COUNTY COLLEGE OF MORRIS

# WEB DEVELOPMENT

## Certificate of Achievement

## WHAT YOU WILL LEARN

The 16-credit Certificate of Achievement in Web Development is designed for both full-time students and working professionals seeking to launch a new career or pivot into the high-growth field of web development. This program equips you with the modern technical skills needed to design, build, and deploy responsive, dynamic websites across a wide range of devices. Balancing core design theory with intensive hands-on programming, the core curriculum features essential foundations including **The Internet and Web Page Design, Web Design II and Web Development Workflow**.

Learn to responsibly leverage emerging artificial intelligence applications, including AI code assistants, automated debugging tools, and generative digital content creation software, to streamline programming and optimize today's development environments. Be ready to master industry-standard version control using Git and GitHub to manage, track, and deploy your code from local testing environments straight to live servers.

A choice of two electives allowing you to tailor your skillset toward advanced back-end programming, corporate cybersecurity, database management or creative digital media production. Elective options include:

- **Advanced Web Programming:** Create interactive, data-driven sites using web server technologies and front-end frameworks with functioning back-end support.
- **Database Programming (SQL):** Master the database structures that power modern, content-heavy websites and e-commerce platforms.

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## CAREER OPPORTUNITIES

A Certificate of Achievement in Web Development from CCM provides a direct, high-value pathway into the tech sector.

**Entry-Level**

- Junior Web Developer
- Web Assistant / Content Manager
- UI/UX Front-End Technician
- Freelance / Independent Web Designer

**Mid-Level**

- Front-End Web Developer
- E-Commerce Web Specialist
- Web Development Workflow Coordinator

Starting base salaries for standard Web Developers range from $76,000 to $99,250, with specialized front-end developers commanding more (Robert Half Inc.)

## CONTACT INFORMATION

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- **Mobile App Design:** Learn to architect and transition layout interfaces smoothly onto mobile environments.
- **Foundations of Information Security:** Gain essential cybersecurity awareness to ensure the web architectures you build are resilient against modern digital threats.
- **Digital Media, Animation, & Multimedia Production:** Elevate your sites using advanced graphics, rich layout aesthetics, and engaging motion media.

Through interactive projects, you will master industry-standard tools and workflows, streamlining your development from local code testing straight to live production.

## WHY STUDY WEB DEVELOPMENT?

CCM strives to provide industry-relevant and future-focused curriculum. The Web Development Certificate arms you with practical, high-income skills engineered to move beyond static coding and match modern employer expectations. You will master:

- AI-Assisted Development Practices: Learn to responsibly leverage cutting-edge AI code assistants, automated debugging, and modern digital asset tools to streamline your production workflow.
- Core Technical Foundations: Build responsive web designs, front-end architectures, and multi-device user interfaces.
- Inclusive Digital Design: Implement essential accessibility principles (WCAG), seamless digital communication strategies, and rich multimedia integrations.
- Modern Technical Stack: Move far beyond basic HTML. You will gain hands-on experience in advanced, responsive CSS layout styling, interactive JavaScript development, and core programming principles that reflect modern industry standards.
- Production-Ready Workflows: Learn the critical infrastructure of the modern web, including advanced Search Engine Optimization (SEO) strategies, digital content production, and accessible, navigationally sound design architectures.
- 100% Flexible Learning: Balance your education with your personal schedule. This certificate is offered fully in-person or 100% online through CCM's Virtual Campus.
- Stackable Credentials: Maximize your time and tuition. The web development courses completely overlap with the Associate of Applied Science (AAS) degree in Information Technology at CCM. This unique structure allows you to earn your professional certificate before or alongside your degree graduation.

## WHERE YOU CAN GO!

The Web Development Certificate of Achievement delivers practical, career-oriented technical skills designed for immediate workforce entry, professional advancement, or a direct pivot into a college degree.

Throughout the coursework, you will build a professional, portfolio-ready body of work that showcases your real-world skills to top employers. CCM students are uniquely positioned for financial success. According to the Bureau of Labor Statistics, employment for web developers and digital designers is growing much faster than average, heavily driven by the continuous expansion of mobile optimization and e-commerce. The college's proximity to major corporate and NYC tech hubs leads to starting salaries that trend significantly higher than national averages.

This certificate is designed as a fully stackable credential that can be seamlessly applied towards quicker completion of an Associate of Applied Science (AAS) in Information Technology at CCM. If your ultimate goal is a bachelor's degree from a four-year university, be sure to connect with your academic advisor and utilize NJ Transfer. For more information, visit CCM's Transfer Services: www.ccm.edu/student-support/transfer-services/.

| CURRICULUM - 0352 | 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 |
| Foundations of Information Security | 3 |
| Database Programming | 3 |
| Multimedia I | 3 |
| Multimedia II | 3 |
| Digital Media Production | 3 |
| Animation | 3 |
| Advanced Animation | 3 |
| Advanced Web Programming | 3 |
| **Total Certificate Credits** | **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.*