

INFORMATION TECHNOLOGY, WEB DEVELOPMENT, ASSOCIATE IN APPLIED SCIENCE (ITWD)

Effective: Fall 2016

The Associate in Applied Sciences in the Information Technology (IT) Career Degrees at Delaware County Community College blends the theoretical with the practical. Students are offered a choice of specializations: Computer Programming, Game Development, Help Desk/Technical Support, Interactive Multimedia, Network Engineering, Mobile Computing and Web Development. The Web Development degree is designed for students interested in pursuing a career as a web professional. Completion of this program option will provide students with the skills needed for entry-level positions as web designers/developers. Concepts covered include information design, network administration, database management, interface design and programming. Students learn to create websites using current industry standard software and technologies. In addition, students learn how to incorporate media technologies such as sound, video and animation into websites.

Program Outcomes

- Develop a professional website including graphics design, structural analysis and data gathering.
- Design and create intuitive, usable interfaces for desktop and mobile devices.
- Create websites using current HTML and CSS standards.
- Create responsive web applications that display appropriately on a variety of mobile, tablet, laptop and desktop screens.
- Upload files to a web server and update and maintain websites.
- Incorporate scripting languages into web documents to add control and interactive elements.
- Support current Unix systems.

Curriculum

First Semester		Hours
ENG 100	English Composition I	3
CS 100	Introduction to Information Technology	3
CS 101	Introduction to Computer Science	3
Select one of the following:		3-4
MAT 120	Modern College Mathematics	
MAT 121	Introduction to Probability and Statistics	
MAT 135	Business Precalculus	
MAT 151	College Algebra	
Any Diversity and Social Justice and Global Understanding designated course		3
Hours		15-16
Second Semester		Hours
ENG 112	English Composition II: Writing About Literature	3
IMM 120	Web Page Design and Development	3
IMM 110	Multimedia Graphics & Design	3
Select one of the following:		3-4
MAT 120	Modern College Mathematics	
MAT 121	Introduction to Probability and Statistics	
MAT 136	Business Calculus	

MAT 152	Precalculus	
Any Scientific Inquiry (SI) designated Science course		4
Hours		16-17
Third Semester		
CS 207	Intro to Oracle: SQL	4
CS 241	Mobile Web Development	3
NET 110	Network Communications	3
CS 141	UNIX Operating Systems	3
CS 214	jQuery/JavaScript	3
Hours		16
Fourth Semester		
NET 230	Network Operating Systems Concepts	4
CS 206	PHP/MySQL	3
IMM 200	UX Design	3
Any Oral Communication designated course		3
Hours		13
Total Hours		60-62

Notes

Diversity and Social Justice and Global Understanding designated courses. (https://catalog.dccc.edu/academic-programs/college-academic-learning-goals/#Dual_DJ_GU_CourseList)

Oral Communication designated courses (https://catalog.dccc.edu/academic-programs/college-academic-learning-goals/#OC_Course_List).

Scientific Inquiry designated courses (https://catalog.dccc.edu/academic-programs/college-academic-learning-goals/#SR_Course_List).