



# Web Development Degree Map

● CAREER DEGREE    M MIDDLETOWN CAMPUS

## A Day in the Life ...

Web developers may find themselves working on coding the front-end, coding the back-end code, or both. Sometimes the situation may require some overlap into web design. Employment can involve independent freelance work or working in an organization's IT, marketing, or customer relations department.

One thing is certain, workers in this field are almost always required to work in teams and collaborate. There are so many “pieces” that seldom can one person do it all. Whether in the office or remote, employees in this field must work together to develop and maintain websites.

## Three Reasons to Consider Web Development

1. Demand for education and training in Web Development is rising as more opportunities of employment surface in this area. The U.S. Dept. of Labor states on their Occupational Statistics Handbook web page that “Employment of web developers is projected to grow 13 percent from 2018 to 2028, much faster than the average for all occupations”.
2. Demand for developers will be driven by the growing popularity of mobile devices and ecommerce.
3. Our program combines a substantial amount of training in a broad spectrum of disciplines that comprise Web Development including design, scripting, structured programming, administration, security, database management, network support, and mobile application development.

## Keep This in Mind

This is a complex field utilizing rapidly changing toolsets and technologies. Industry standards are constantly evolving.

Server-side support and other aspects of web development are highly collaborative vocations. It is rare, even in small businesses, that one person has the knowledge to address all the required layers involved in an implementation. In today's development and support environments, employees must work well in a team setting to accomplish the business' goals.

It is important that students stay in close touch with their advisors and remain in sequence with the course of study because some of the classes are only offered once per academic year.

## Web Development Gateway Courses:

- Gateway courses: CIT 105, CSC 138
- Key courses: CIT 215, CSC 108, CIT 216

*Courses above have been recommended by the department to help introduce you to the program (Gateway courses) and guide you in selecting courses that will provide you with the best academic experience (Key courses and suggested Electives).*

## First Semester

Course #	Course Name	P, C, P/C	Cr
ENG 101	Freshman English 1 (G10A [w] & G11A)	P	3
MAT 121	College Algebra (G1A)		3
CSC 138	Introduction to Applied Logic Through Scripting (G11A)		3
CIT 105	Data Communications and Networking	P	3
CIT 117	UNIX/LINUX	P	3
COM 100	Oral Communication * (G10A [o])		1
	Total Semester Credits		16

## Milestones

### During this semester, students should:

- Meet with your newly assigned “department” advisor to plan your second semester
- Consider joining the student-led Computer Club

## Second Semester

Course #	Course Name	P, C, P/C	Cr
ENG 102	Freshman English 2 (G7A and G12A)	P	3
CIT 111	Internet and HTML		3
CSC 101	Computer Science 1	P	4
CIT 215	Web Site Management	P	3
CIT 225	Database Fundamentals and Design		3
	Total Semester Credits		16

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## Milestones

### During this semester, students should:

- Meet with department advisor to plan third semester

## Third Semester

Course #	Course Name	P, C, P/C	Cr
CIT 218	Systems Analysis and Design	P, P/C	3
CSC 227	Java Script	P	3
CSC 108	Web Programming 1	P	4
_____	Category E Social Science Elective (G6A)		3
_____	SUNY Natural Sciences ** (G2A)	P	4
	Total Semester Credits		16

## Milestones

### During this semester, students should:

- Prepare resume for next semester's internship
- Schedule time with Career Services Office to identify internship opportunities
- Narrow focus for post-graduate job search or, if continuing studies, research and apply to transfer schools

## Fourth Semester

Course #	Course Name	P, C, P/C	Cr
CIT 216	Internet Security	P/C	3
CIT 228	Systems Administration	P	3
CSC 232	Mobile Application Development	P	3
CSC 205	Web Programming 2	P	3
_____	SUNY Social Sciences ***		3
	Total Semester Credits		16

## Milestones

### During this semester, students should:

- Apply for graduation
- Schedule mock interviews through the Career Services Office or the Department

## TOTAL DEGREE CREDITS: 64

## Notes

\*COM 101 satisfies the requirement of COM 100

\*\*must be 4 credits

\*\*\*Student must choose from G3A (SUNY Social Sciences), G4A (SUNY US History & Gov) or G5A (SUNY World History)