

Software Engineering Micro-Credential Career Track Bootcamp

Course Outline

Instructor's information

Name: Mrs. Ramirez Adjunct Professor /Engineering Technology Department
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Website:
Office hours: by appointment, or anytime by e-mail

Course information

Term and date: Spring 2021

Meeting times: M-W-F 5:00pm -9:00pm Sat 9:00am- 6:pm

Building and room number: Online EdModo (via Zoom, synchronous)

Prerequisites and co-requisites for students:

- Current CUNY students who already completed 30 credits by fall 2020 with good academic standings.
- Programming knowledge and experience preferred.

Course Schedule:

- January 4 to February 6 (Mon., Wed., Fri.: 5-9pm; Saturdays: 9 am-6 pm)

Course Description

QCC's **Software Engineering Micro-Credential Career Track in Web Development** is designed to provide learners passionate for a career in Software Engineering to quickly develop highly in-demand web development skills, including programming languages, tools and technologies to succeed in front end and back end development, as well as full stack development. This intensive Boot Camp will immerse learners in a 100-hour online development environment over an intensive five-week time frame and is led by Software Engineering Industry experts and Instructors. This course is limited to 25 students in each section.

Learning Outcomes:

By the end of the course, learners will

- Have completed a personal portfolio and a group project that spans the entirety of full stack application.
- Have a complete programming skill set to succeed in web development role.
- Be eligible to apply for both internships and employment opportunities.

Topics to be covered include:

Week 1 (20 hours)	Intro to Software Engineering HTML, CSS, GitHub	Assessment: Project 1 – Build A Static Website (e.g., An Informative Travel Theme Website)	<p>21st century workplace skills such as leadership, critical thinking, resilience, communication, and collaboration are embedded in the project-based learning throughout the course. Peer-to-peer learning is also highlighted.</p> <p>Other job readiness workshops (such as career panel and mock interviews) and wraparound services will be provided by CEWD job developer team and invited keynote speakers from industry partners and New York City Jobs CEO Council.</p>
Week 2 (20 hours)	Bootstrap JavaScript Fundamentals	Assessment: Project 2 – Build A Static Website (e.g., An Informative Travel Theme Website)	
Week 3 (20 hours)	Intermediate JavaScript Introduction of API	Assessment: Project 3 – Build A Dynamic Web App (e.g., Budget Web App with API) Goal: Train students how to think as a web developer and how to improve user experience	
Week 4 (20 hours)	SQL/PostgreSQL	Assessment: Project 4 – Create A Database from Scratch	

Week 5 (20 hours)	Introduction to Python programming & Cloud Computing	<p>Assessment:</p> <p>Group Project (Culminating Project) – Build Real World Application</p> <p>(e.g., A Database Web App or A Mobile App)</p> <p>Goal: Train students to work independently and as a part of team by creating real world applications</p>	
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Support for students with disabilities

QCC CEWD adheres to the requirements of the Americans with Disabilities Act of 1990 and the rehabilitation Act of 1973, Section 504. The QCC Office of Disability Services actively supports students in the pursuit of their academic and career goals. Identification of oneself as an individual with disability is voluntary and confidential. Students wishing to receive accommodations, referrals and other services are encouraged to contact the Office of Disability Services as early as possible.

Wraparound Support Services: Learners will have the opportunity to receive inclusive learning, career development and professional development support and counseling through QCC's R.I.S.E. Team. The Road to Interdependence and Student Excellence (R.I.S.E.) is an inclusive free program with Career and Technical Education Specialists providing unlimited one-on-one meetings to help guide credit and non-credit students with their academic and career journey. Students will work with Specialists to create a strategic set of individualized goals that will decrease the barriers they face while boosting the skills needed to increase employment opportunities and job retention.

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