

Academic Plan as of Fall 2021

Program Description:

The Software Development Bootcamp certificate provides the knowledge base and practical experience to obtain a role in the software programming field. The curriculum integrates real-world projects and training exercises with software engineering theory to provide practical experiences, tools, and insights you need to succeed as a professional developer. This fully online program consists of lectures, individual and group exercises, and virtual labs and real-world projects that teach you how to create user experiences through client- and server-side development best practices.

Curated curriculum covers web design, web development, and software programming. You will have numerous opportunities to practice your digital skills in a live, synchronous, virtual environment alongside your instructors to ensure in-depth comprehension. You can also apply the skills gained in your virtual lessons to real-world scenarios and gain extensive experience solving problems while obtaining feedback from industry experts.

A unique Introductory Course covers the most fundamental elements of full-stack development so students can determine whether or not it is the right career path before committing to the full program.

Program Learning Outcomes:

Upon completion of the Software Development Bootcamp Certificate, the student will be able to:

- Build accessible web pages using HTML best practices.
- Use CSS & CSS frameworks to efficiently style web layouts.
- Apply UI/UX best practices to create user-friendly design solutions.
- Use JavaScript to add interactive elements to web pages.
- Create and document custom RESTful APIs while following best practices and using industry-standard tools for testing and server-side programming.
- Use current industry tools to build more robust user interfaces and state management using React and Redux.
- Use SQL and NoSQL databases and distinguish between optimal use cases for each.
- Build applications to support user authentication and authorization in order to protect against common cybersecurity flaws.
- Apply principles of computer science theory using Python.

Program Requirements:

To earn the Software Development Bootcamp Certificate, you must successfully complete the Software Development: Introductory Course and Software Development Bootcamp to earn 41.4 CEUs

Required Courses:

- Software Development: Introductory Course (WC1101)
- Software Development Bootcamp (WC1102)

Prerequisites and Admissions Requirements:

The accelerated Software Development Bootcamp is built for those from any professional background who have a strong affinity for technical solutions, enjoy aspects of conceptual and visual design, and seek creative ways to solve problems.

While a student should be technically inclined, no background in the field is needed. To determine a student's suitability for the field before committing to the full program, enrollment begins with the 30-hour Introductory Course. This introduction provides students with an understanding of the fundamental principles of software development. At the end of the introductory course, a summary exam and one-on-one assessment with an Admissions Advisor are used to determine a student's future in the program.