



Online Bachelor of Science in
**SOFTWARE
DEVELOPMENT**



EARN YOUR SOFTWARE DEVELOPMENT DEGREE AT CHAMPLAIN COLLEGE ONLINE



CHAMPLAIN
COLLEGE
ONLINE /

Champlain College

CAREER-ENHANCING PROGRAMS IN SOFTWARE DEVELOPMENT AT CHAMPLAIN COLLEGE ONLINE

Champlain College's online Associate degree, Bachelor's degree and certificate programs in Software Development are designed to build upon your existing technical skill set and will help you to develop a new specialized body of knowledge with endless applications in this dynamic field. Through our programs, you will learn how to fully utilize different software languages, gain practical experience and acquire strong programming, systems analysis, interpersonal and business skills.

Across the country, software developers are in high demand. And, the U.S. Bureau of Labor Statistics expects that prospects for this field will continue to outpace other professions through 2022. Champlain's Software Development programs will help you capitalize on opportunities in this growing field with the technical training needed to enter the field and the soft skills required to sustain your career.

AS A SOFTWARE DEVELOPMENT ASSOCIATE DEGREE STUDENT YOU WILL LEARN TO:

- > Apply principles of human-computer interaction in the design of computer interfaces.
- > Identify and analyze user needs and take them into account in the selection, creation, and evaluation of computer-based systems.
- > Effectively utilize project management tools and techniques to complete tasks on time and on budget.

AS A SOFTWARE DEVELOPMENT BACHELOR'S DEGREE STUDENT YOU WILL LEARN TO:

- > Write, test and maintain computer programs and web applications in at least three languages.
- > Effectively utilize database and database management systems to organize, store and retrieve data for use by application software and websites.
- > Create and build software and web applications that are intuitive for use by a wide range of users.
- > Apply relevant methods to assess the important application development and deployment challenges involved in adopting various cloud architectures.
- > Write programs that make use of the appropriate operating systems, taking into account security, networking and hardware interfaces, concurrent processing, embedded systems, multi-threading.

Champlain College

SOFTWARE DEVELOPMENT CURRICULUM

- PROFESSIONAL COURSES**
- > Web Page Development I—HTML*
 - > Networking Fundamentals*
 - > Information Systems Analysis and Design*
 - > Introduction to Computer Systems*
 - > C++ Programming I*
 - > Relational Database Design & SQL*
 - > C++ Programming II*
 - > Foundations of Cybersecurity
 - > Project Management*
 - > Data Structures & Algorithms*
 - > Enterprise Database Systems
 - > Linux/UNIX Programming I
 - > Usability in Website and Software Design*
 - > Applied Software Practice I
 - > Cloud Computing Security
 - > Operating System Security
 - > Operating Systems Architecture
 - > Financial Accounting OR
Financial Systems for Management*
 - > Technical Electives

- GENERAL EDUCATION COURSES****
- > Introduction to Psychology*
 - > Critical Reading & Expository Writing I & II*
 - > Interpersonal Communication*
 - > Technical Writing*
 - > Intercultural Communication
 - > Calculus I*
 - > Discrete Mathematics
 - > Ethics in the Professions
 - > Writing in the Workplace
 - > Microeconomics OR Macroeconomics
 - > Lab Science
 - > Electives

* Required course to earn an Associate Degree

**The majority of our students qualify for transfer credit and/or test out of professional and general education courses reducing the cost of their degree and time to completion.

PROGRAM STRUCTURE

Total credits needed to earn the BS: 120

Total Professional Courses credits: 63

Total General Education credits: 33

Total credits needed to earn the AS: 60

Total Professional credits: 33

Total General Education credits: 27

CERTIFICATE OPTIONS

Gain credentials while pursuing your degree by earning a certificate along the way.

Earn a certificate in:

- > C++ Programming
- > Java Development
- > Software Development
- > Software Security
- > Visual C#

CHAMPLAIN COLLEGE: AN EXPERIENCED LEADER IN ADULT ONLINE EDUCATION

Champlain College is a regionally accredited, private, not-for-profit college in Burlington, Vermont known for educating students for career success since its founding in 1878. Champlain has been a leader in online education since launching its first online degree programs more than 20 years ago, and now offers nearly 50 online programs of study.



Ranked among the Best Online Bachelor's Programs by *U.S. News & World Report*.



Regionally accredited by the *New England Commission of Higher Education*, which ensures that standards of academic quality are being met or exceeded.



Included in *The Princeton Review's* "The Best 381 Colleges" ranking especially high for its quality of life, "green" commitment and academics.

POSITION YOURSELF FOR SUCCESS WHEN YOU CHOOSE CHAMPLAIN COLLEGE ONLINE

At **Champlain College Online**, adult students are our priority, and our nationally acclaimed **100% online** programs are designed for busy working adults.

We structure our academic calendar to help you **finish your degree sooner** with three semesters a year, and two sessions in each semester.

You'll benefit from a personalized student experience with a **dedicated academic advisor** and a team to help you complete your degree.

Our faculty are **practitioner-experts** in their field and understand today's industry needs.

Curriculum is **built with working professionals in mind**, with coursework and assignments that can be immediately applied to the workplace.

When awarding transfer credits, we consider the **work and life experiences** that adult online learners bring to their academic pursuits, in addition to their prior college coursework.

With **no specific class times throughout the week**, you can **participate 24/7**, when it's **convenient for you**.



EARN YOUR SOFTWARE DEVELOPMENT DEGREE AT CHAMPLAIN COLLEGE ONLINE



CHAMPLAIN COLLEGE ONLINE /

- P** 888.545.3459
- E** champlainonline@champlain.edu
- W** champlain.edu/online