WESTCLIFF UNIVERSITY
Educate. Inspire. Empower.

Presidential GRADUATE SCHOOL
LEAD | INSPIRE | INNOVATE

Bachelor of Science in Software Engineering

Graduation Requirements

The Bachelor of Science in Software Engineering (BS in Software Engineering) degree program requires 120 credit hours, including 45 credit hours of Core Information Technology courses, 36 credit hours of Concentration and Elective courses, 30 credit hours of Integrative Studies (General Education) courses, six (6) credit hours of Core Business courses, and a three (3) credit-hour Capstone course.

Students may complete their entire 120-credit Bachelor of Science in Software Engineering program by taking all 45 credit hours of Core Information Technology courses, 36 credit hours of Concentration and Elective courses, 30 credit hours of Integrative Studies (General Education) courses, six (6) credit hours of Core Business courses, and a three (3) credit-hour Capstone course at Westcliff University. Alternatively, students may transfer up to 30 Integrative Studies (General Education) credit hours from another accredited school. In any option, 54 of the 60 Integrative Studies (General Education) credit hours must have academic content. Please refer to the Transfer of Credit Policy for more detailed information and requirements.

Bachelor of Science in Software Engineering program standard duration is 4 years. The duration of the program may vary based on individual circumstance. Students must apply for graduation. Upon graduation and fulfillment of all academic requirements, students receive a Bachelor of Science in Software Engineering degree.

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Program Description

The Bachelor of Science in Software Engineering program equips students with the principles, methodologies, and tools required to design, develop, test, and maintain high-quality software systems. The curriculum blends core computing knowledge with practical skills in programming, software architecture, databases, and agile development. Graduates will be prepared to pursue careers in software development, system analysis, project management, and related roles across various industries.

Admission Requirements

For acceptance into the BS in software engineering program, applicants must satisfy English proficiency and one (1) of the additional criteria:

For students who obtained their credentials outside the United States from a non-English-speaking country, proof of English proficiency will be requested.

Students must also meet one of the following criteria:

- High school diploma from a university-recognized high school with a minimum 2.0 cumulative GPA or university-recognized high school equivalency such as GED, TASC, or HiSET;
- High school diploma plus a previously earned associate-level or higher degree from a nationally, regionally, or government-accredited college or university;
- High school diploma plus twenty-four (24) college-level credits (does not include remedial credits) from a nationally, regionally, or government-accredited college or university earned with a minimum 2.0 cumulative GPA;
- Approval from the admissions committee following a review of factors considered essential for academic success, including previous academic progress, non-academic achievements, and any additional information requested by the Committee as they relate to standards set by the University's governing bodies.

CLICK HERE FOR FULL PROGRAM INFORMATION

Bachelor of Science in Software Engineering Program Learning Outcomes

The BS in Software Engineering encourages students to achieve the following educational outcomes:

- Apply software engineering principles and best practices to design, develop, test, and maintain reliable software systems.
- Analyze user requirements and translate them into effective software specifications and architectural designs.
- Develop software solutions using appropriate programming languages, tools, and frameworks that meet quality and performance standards.
- Evaluate software quality through systematic testing, debugging, and validation techniques to ensure functionality and security.
- Communicate complex technical concepts and collaborate effectively within multidisciplinary teams through written documentation and oral presentations.

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