

B.S. in Software Engineering

The Bachelor of Science degree in Software Engineering is designed to prepare students for an entry-level software engineering position in industry that supports the design and implementation of software systems with the focus on real-time, embedded, and safety-critical applications. Such systems are critical in aviation, space, medicine, and other disciplines that rely on high-quality, dependable software.

In a few years of completing their undergraduate degree, graduates of the Bachelor of Science in Software Engineering:

- Have established themselves in successful engineering careers in aviation, aerospace, and related fields and/or are pursuing advanced degrees.
- Are serving society and their professions as involved and responsible citizens, leaders, and role models.
- Are problem solvers, systems thinkers, and innovators.

Program-Specific Criteria

Admissions Criteria

In addition to meeting the Worldwide Campus admissions requirements, applicants for admission into the BS in Software Engineering, BS in Engineering, and BS in Engineering Technology degree programs must:

- Complete the English and Math Skills Assessments prior to admission to determine academic preparedness for entry into ENGL 123 English Composition and MATH 241 Calculus I.
- Current high school students and recent graduates under the age of 20 must meet established admissions requirements and demonstrate a 3.0 high school CGPA, with coursework that reflects 4 years of college preparatory mathematics and 2 years of college preparatory science, including a laboratory science.
- Transfer applicants must meet established admissions requirements and demonstrate a 2.5 cumulative grade point average (CGPA); transfer credit deemed equivalent to demonstrate academic preparedness for immediate entry into ENGL 123 English Composition and MATH 241 Calculus I, will be considered for admission into the program. Skills Assessment scores will be used for advising purposes if English and Math transfer credit demonstrates academic preparedness for admission into the program.

Students who fail to satisfy the guidelines for full admission may be considered for conditional admission under circumstances determined by the Admissions Office OR may be considered for admission into an alternate program. A written petition for admission, current resume and other supporting documentation may be requested for consideration of admission. Exceptions will be reviewed on a case by case basis.

Current Worldwide students requesting a change of program to the BS in Software Engineering, BS in Engineering, or BS in Engineering Technology degree programs must demonstrate successful completion of the first year of the suggested plan of study in the AS in Engineering Fundamentals degree plan with a 2.5 GPA. Students may then work with their campus advisor to determine eligibility to add or change to the BS in Software Engineering, BS in Engineering, or BS in Engineering Technology degree programs. Exceptions will be reviewed on a case by case basis.

Capstone Requirements:

1. Senior status is defined as having completed all Freshmen, Sophomore, and Junior year courses of the BSSE program as published in the Suggested Plan of Study.

2. All courses **must** be completed prior to enrolling in SWEN 490 with the exception of those identified in Terms 3 and 4 of the Senior year as published in the BSSE Suggested Plan of Study.

Estimated Cost of Attendance