

Bachelor of Science in Computer Science and Software Engineering: Information Assurance and Cybersecurity

Degree Map & Planning Information

Admissions Information

The CSSE-IAC major is currently a “capacity constrained” program with a limit on the number of students admitted, so meeting the minimum entry requirements does not guarantee admission.

If you meet the minimum admissions requirements, then your application will be reviewed by a committee of Computing & Software Systems department faculty. The committee uses a holistic approach when reviewing applications, evaluating each on its individual merit and making decisions on a case-by-case basis. Our goal is to admit students who will benefit from the program, contribute to our community of learning, and move on to make positive impacts after graduation.

To be considered/reviewed for admission students will apply for the CSSE major, the complete courses below with a minimum grade of 2.0 or higher in all courses. No in-progress prerequisites, unless it is for the regular Autumn Admission in which the pre-requisite grade will be completed at the end of Spring Quarter. The program admits students in the Autumn, Winter and Spring quarters.

University of Washington-Bothell Prerequisite Courses:

- English Composition I and II (BWrit 134 & BWrit 135)
- Calculus 1 and II (ST Math 124 and ST Math 125)
- Computer Programming I and II (CSS 142/CSSKL 142 & CSS 143/CSSKL 143 or CSS 132 & CSS 133)

*Students who want to do the CSSE-IAC must apply for the CSSE Major and if admitted into the CSSE major will be able to request a major change to CSSE-IAC with their assigned academic advisor.

Curriculum Information

General Education

To be eligible for graduation from the University, with the baccalaureate degree, a student must complete a minimum of 180 academic credits and satisfy all other specific requirements. The University of Washington Bothell has established minimum general education requirements for baccalaureate degrees. These minimum requirements are:

English Composition – 5 credits (A minimum grade of 2.0 is required)

Additional Writing – 10 credits

Reasoning (RSN) – 5 credits

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Natural Sciences (NSc) – 15 credits

Arts and Humanities (A&H) – 15 credits

Social Sciences (SSc) – 15 credits

Diversity – 5 credits (can overlap with General Education requirements above)

Major Requirements

For the Computer Science and Software Engineering major, students must complete the following courses with the following grades (where indicated):

CSS 301 Technical Writing for Computing Professionals

CSS 342 Data Structures & Algorithms I

CSS 343 Data Structures & Algorithms II

CSS 350 Management Principles for Computing Professionals

CSS 360 Software Engineering

CSS 370 Analysis & Design

CSS 422 Hardware & Computer Organization

CSS 430 Operating Systems

IAC Core & Electives (25 credits)

- CSS 310
- Option Electives (Pick 15 credits)
 - CSS 337 Secure Systems
 - CSS 415 Emerging Topics in IAC
 - CSS 432 Network Design
 - CSS 411 Computing, Technology, and Public Policy

*Additional CSS Elective course (Can pick any CSS course)

General Electives (15 Credits)

Upper-level electives of any discipline. Must be at the 300 or 400 level.

CSSE Capstone

The scope and nature of each project will require students to integrate and apply their knowledge in a "real world" setting. Students complete 10 credits (400 hours) of Capstone in their final quarter(s).

Project options consist of internships, research with faculty, individual projects, or group projects. Upon completion of the Capstone, students present at the CSS Colloquium.

- Completion of 180 or more total credits including the above stated requirements, with a cumulative GPA of 2.0 or higher
- Students must earn a grade of 2.0 in all required courses (please note that some courses may require a higher prerequisite GPA)
- Completion of the last 45 credits at UW Bothell
- Completion of all University of Washington Bothell graduation requirements

Sample 4-year Course Plan

Year 1

Autumn	Winter	Spring	Summer
B WRIT 134 (5)	B WRIT 135 (5)	Elective	
ST MATH 124	A&H or SSc (5)	CSS 142/CSSKL 142(5)	
A&H or SSc (5)	ST MATH 125	A&H or SSc (5)	

Year 2

Autumn	Winter	Spring	Summer
CSS 143/CSSKL 143	A&H or SSc	CSS 342	
A&H or SSc (5)	A&H or SSc	CSS 360	
General Elective	Upper-level General Elective	CSS 310	

Year 3

Autumn	Winter	Spring	Summer
CSS 342	CSS 422	CSS 430	
CSS 301	CSS 370	CSS 350	
CSS-IAC Elective	CSS-IAC Elective	CSS-IAC Elective	

Year 4

Autumn	Winter	Spring	Summer
CSS-IAC Elective	Elective	Upper-Level General Elective	
STAT Course (5)	Capstone	Capstone	
DIV Course	Upper-level General Elective	Elective	

This is a sample schedule of courses based on degree requirements. The actual degree plan may differ depending on the course of study selected, the number of starting credits, or the starting admission point. This guide is not a substitute for academic advising. For more information, contact your academic advisor or visit www.uwb.edu/advising.