

**What can you do with a Computer Science (BA) major from SPU?**

The BA in Computer Science emphasizes problem-solving, organizing and synthesizing ideas, and applications of computing theory. It's a particularly good major if you wish to double-major or minor in another field. You will graduate prepared to apply your computer knowledge and skills in a variety of occupational settings.

**Potential occupations include:**

- Computer Designer
- Quality Assurance Analyst
- Systems Analyst
- Database Administrator
- Software Developer
- User Interface Designer
- Internet Apps Programmer
- Software Engineer
- Web Developer

**Other majors at SPU with similar requirements in the first two years**

Information Systems (BS)

**Suggested transfer preparation at Seattle Central College**

Associate of Arts (AA-DTA), with careful selection of courses. Students who study Java rather than C++ are required to take CSC 2330 in their first quarter at SPU.

**Courses in the major you may complete at Seattle Central College**

Seattle Central College Course	SPU Equivalent Course
ITC 115 Object Oriented Programming (5)	CSC 1230 Problem Solving & Programming (5)
MATH& 148 Business Calculus (5)	MAT 1221 Survey of Calculus (5)
MATH& 146 Introduction to Statistics (5)	MAT 2360 Stats for Sciences (5)
<p><b><i>If you completed one or both of the following courses, consult with <u>SPU Computer Science</u> faculty about how those classes may fit into your major:</i></b></p> <p>CSC 142 Computer Programming I (5) CSC 143 Computer Programming II (5)</p>	

**Admission to the major**

If you identify the Computer Science (BA) major as your first choice on your application for admission to the University, you will automatically gain entry to the major when admitted to SPU.

**Learn more about the Computer Science (BA) major at:**

- <http://spu.edu/computer-sci-engineering>
- <http://spu.edu/computer-science-ba-reqs>

**Get more information** about transfer admission to Seattle Pacific University at: <http://spu.edu/transfer>.  
**Questions?** Contact [transfer@spu.edu](mailto:transfer@spu.edu).

## Courses to complete at SPU

CSC 1230 Problem Solving & Programming (5) *
CSC 2430 Data Structures I (5)
CSC 2431 Data Structures II (5)
CSC 3011 Living in a Digital World (3)
CSC 3150 Systems Design (5)
CSC 3220 Applications Programming (4)
CSC 3221 Netcentric Computing (4)
CSC 3310 Concepts in Programming Langs (4)
CSC 3350 Operating Systems Programming (3)
CSC 3430 Algorithm Design & Analysis (4)
CSC 3750 Computer Architecture/Organization (5)
CSC 4410 Database Management (5)
CSC 4898 Senior Capstone Seminar (2)
MAT 1720 Math for Computer Science (5)
Select <b>one</b> of the following technical electives:
<ul style="list-style-type: none"> <li>• CSC 4210 Theory of Computation/Algorithms (3)</li> <li>• CSC 4220 Cybersecurity Fundamentals (3)</li> <li>• CSC 4250 Intro to Artificial Design (3)</li> <li>• CSC 4310 Compiler Design (3)</li> <li>• CSC 4350 Advanced Operating Systems (3)</li> <li>• CSC 4430 Advanced Programming (3 – 5)</li> <li>• CSC 4750 Computer Networks (5)</li> <li>• CSC 4760 Advanced Computer Architecture (5)</li> <li>• CSC 4800 Advanced Issues in Computer Sci (3 – 5)</li> </ul>
Project and Internship Requirements:
<ul style="list-style-type: none"> <li>• CSC 3000 Principles of Professional Practice (1)</li> <li>• CSC 4151 Software Engineering I (3)</li> <li>• CSC 4152 Software Engineering II (3)</li> <li>• CSC 4941 Internship Review (1)</li> </ul>

\* If ITC 115 not completed before transfer.

## Other requirements for the degree

In addition to the major, the degree requires completion of any remaining general education and University requirements, and at least 180 college-level credits total, including 60 upper-division (UD) credits.

All students must complete the University Foundations Requirement at SPU – even those who have completed the Direct Transfer Agreement (DTA) Associate Degree.

Students admitted with fewer than 90 credits (freshmen and sophomores) complete 15 credits:  
 UFDN 1000 The Christian Faith (5)  
 UFDN 2000 Christian Scriptures (5)  
 UFDN 3100 Christian Theology (5)

Students admitted with 90 credits or more (juniors and seniors) complete 10 credits:  
 UFDN 3001 Christian Scriptures (5)  
 UFDN 3100 Christian Theology (5)

## Suggested course plan for your junior and senior years at SPU

Assumes junior standing at entrance and successful completion of ITC 115; and MATH& 146 and 148, prior to transfer.

Junior Year			
Autumn	Winter	Spring	Notes
<ul style="list-style-type: none"> <li>• CSC 1230 (5) -- if ITC 115 not completed before transfer.</li> <li>• CSC 3000 (1)</li> <li>• MAT 1720 (5)</li> <li>• + 4 – 7 credits</li> </ul>	<ul style="list-style-type: none"> <li>• CSC 2430 (5)</li> <li>• CSC 3011 (3)</li> <li>• + 7 – 10 credits</li> </ul>	<ul style="list-style-type: none"> <li>• CSC 2431 (5)</li> <li>• CSC 3150 (5)</li> <li>• CSC 3220 (4)</li> <li>• + 1 – 4 credits</li> </ul>	<ul style="list-style-type: none"> <li>• Students are required to complete 200+ internship hours – this can be done any time this year, but usually take place over the summer between your junior and senior years.</li> </ul>
<b>Any Quarter Offered:</b> <ul style="list-style-type: none"> <li>• Technical elective (3 credits minimum).</li> <li>• UFDN, general education, and University requirements.</li> </ul>			
Senior Year			
Autumn	Winter	Spring	Notes
<ul style="list-style-type: none"> <li>• CSC 3221 (4)</li> <li>• CSC 4898 (2)</li> <li>• + 9 – 12 credits</li> </ul>	<ul style="list-style-type: none"> <li>• CSC 3430 (4)</li> <li>• CSC 3750 (5)</li> <li>• CSC 4151 (3)</li> <li>• CSC 4410 (5)</li> <li>• CSC 4941 (1)</li> </ul>	<ul style="list-style-type: none"> <li>• CSC 3310 (4) -- see notes.</li> <li>• CSC 3350 (3)</li> <li>• CSC 4152 (3)</li> <li>• + 5 – 8 credits</li> </ul>	<ul style="list-style-type: none"> <li>• Students who do not complete an equivalent to CSC 2430, prior to transfer, must take CSC 3310 as an Independent Study in Spring to graduate this year – consult your faculty advisor.</li> </ul>
<b>Any Quarter Offered:</b> <ul style="list-style-type: none"> <li>• Remaining electives, UFDN, general education, and University requirements.</li> <li>• + credits necessary to reach 180 college-level credits total, including 60+ UD.</li> </ul>			