

# COMPUTER SCIENCE (BS)

## Pathway Maps

South Puget Sound Community College has provided pathways and associated recommended courses for ease of student selection based upon a student's career interest. Please review the pathway maps for required and recommended courses.

### Bachelor of Science in Computer Science:

90 credits of 300- and 400-level courses depicted (beyond a valid associate degree).\*\*\*

Students can start in the Fall or Winter quarter.<sup>2</sup>

\*\*\* Completion of 1) AS-T Track 2 with CS142 and CS143, 2) CS DTA/MRP (AA), or 3) Associate in Computer Science: Software Development --or-- Associate in Computer Science: Cybersecurity and Network Administration; or similar Associate in Computer Science from Grays Harbor College (GHC); or computer science-related transfer degree from accredited institution; or instructor permission.

Qtr. 1	Qtr. 2	Qtr. 3	Qtr. 4	Qtr. 5	Qtr. 6
CS 330 (Scr) Database Systems Fall, Winter only	CS 340 (Scr) Mobile Application Development Winter, Spring only	CS 370 (Scr) Web Programming Spring, Summer only	CS 410 (Scr) Software Engineering Fall only	CS 440 (Scr) System Administration Winter only	CS 450 (Scr) Machine Learning Spring only
CS 320 (Scr) Cybersecurity with Networking Fall, Winter only	CS 350 (Scr) Cloud Computing Winter, Spring only	CS 380 (Scr) Computer Architecture Spring, Summer only	CS 420 (Scr) Operating Systems Fall only	CS 490 (Scr) Senior Capstone Project I Winter only	CS 491 (Scr) Senior Capstone Project II Spring only
CS 330 (Scr) Discrete Math Topics for Computer Science Fall, Winter only	CS 360 (Scr) Algorithms and Data Structures Winter, Spring only	300- or 400-level Gen Ed (Recommended) <sup>2</sup> PHIL 350 (Scr) Ethics in Business Management (SPSCC) Spring, Summer only	300- or 400-level Gen Ed (Recommended) <sup>2</sup> ENVS 301 (Scr) Business and Sustainability Principles and Practices (SPSCC) Fall only	300- or 400-level Gen Ed (Recommended) <sup>2</sup> MATH 305 (Scr) Linear Algebra (SPSCC) Winter only	300- or 400-level Gen Ed (Recommended) <sup>2</sup> SOC 390 (Scr) Organizational Theory (SPSCC) Spring only

NOTE1: Winter start students should plan to complete their Quarter 3 courses in Summer Quarter.

NOTE2: 300- or 400-level alternative (Scr) at GHC is an acceptable substitute for PHIL 350 at SPSCC.<sup>4</sup>

NOTE3: BASM 307 (Scr) Quantitative Design, Data, and Analysis at GHC is an acceptable substitute for ENVS 301 at SPSCC.

NOTE4: Successful completion of Linear Algebra is a pre-requisite for CS 450 Machine Learning. Completion of MATH 205 from any WA CTC, or equivalent from another institution, is an acceptable substitute for MATH 305 Linear Algebra at SPSCC.

NOTES: BASM 309 (Scr) Project Management at GHC is an acceptable substitute for SOC 350 at SPSCC.<sup>5</sup>

NOTE5: There are a very limited number of 300- and 400-level general education courses offered at GHC and SPSCC. 300- or 400-level General Education courses may transfer in from other institutions in place of PHIL 350, ENVS 301, and/or SOC 350. However, only another Linear Algebra class can substitute for Math 305 Linear Algebra.