# 2023-24 BAS Software Development with AA Transfer Map

| | | Course Sequencing | | |
|---|---|---|---|---|
| **Year** | **Quarter** | **Subject** | | |
| **First Year** | Fall | CS 101 (Intro to Computers & Info Tech)<br>CS 106 (Database Systems),<br>CS 102 (Programming Fundamentals) OR CS 131 (Computer Science I C++), | | |
| | Winter | CS 202 (Programming Fundamentals 2) OR 162 (C++2)<br>CS 206 (Database Design)<br>CS 228 (Windows Server) | | |
| | Spring | CS 135 (Cloud Fundamentals)<br>CS 150 (Computer Security)<br>CS 225 (SQL Server Programming | | |
| | Summer | CS 232 (Network Security)<br>CS 117 (Computer Ethics)<br>CS 118 (Customer Service) OR 217 (Internship) | | |
| **Second Year** | Fall | CS& 141 (Computer Science 1 Java)<br>SOC 305 (Cybercrime: A Sociological Perspective)<br>ECON 305 (Managerial Economics) | | |
| | Winter | CS 250 (HTML5-JavaScript/JQuery)<br>CS 236 (Advanced Objected Oriented Programming)<br>CMST 415 (Applied Professional Communication) | | |
| | Spring | ICS 310 (American Diversity)<br>PHIL 305 (Professional Ethics)<br>PROJ 100 (Intro to Project Management) | | |
| | Summer | ENGL 410 (Professional & Organizational Communication) | | |
| **Third Year** | Fall | CS 301 (Information Systems)<br>CS 321 (Python for Data Processing)<br>CS 401 (Information Systems Analysis & Design) | | |
| | Winter | CS 316 (Cloud Computing HTML5 and PHP)<br>CS 331 (Intro to Big Data and Analysis)<br>CS 411 (Agile Methodology & ePortfolio Planning), | | |
| | Spring | CS 417 (Contemporary Topics in Computer Science)<br>CS 416 (Data Visualization)<br>CS 421 (Software Development Capstone) | | |

The plan above is only a sample. If you want to see all of the courses we offer, please visit our online catalog here!

## BEFORE YOU START

This map is for students who have completed an AA transfer degree.  If you completed an AAS Information Technology degree, please see the corresponding map.  In addition to earning your associate degree or 90 college-level credits from an academic transfer institution, you must also have completed the following prerequisites:

- At least one 100+ level math course with a minimum grade of 2.0
- ENGL& 101 or the equivalent course with a minimum grade of 2.0

**Requirements Checklist:**

- Completed online CBC Application for Admission (for new CBC students only)
- Completed CBC BAS application
- Official transcript(s)*, sealed, verifying;
    - Your completion of two-year degree and/or all other college credits earned
    - Your completion of the program prerequisites, if applicable
- Resume (maximum three pages)

*For applicants who are current/past CBC students or CBC graduates: If you already have your academic records at CBC (e.g., CBC courses, courses from other institutions), you are NOT required to submit official transcript(s) with your application.*

*You may submit your application while waiting for your official transcript(s) to arrive. The application will not be processed until the transcript(s) are received. Official transcripts must be received in a sealed envelope or sent electronically through our Washington State Student Management System (SMS), or authorized online service provider.*

## ABOUT THE PROGRAM

The study of Information Technology (IT) provides students with limitless opportunities in the IT workforce. With current technologies integrated into the IT curriculum along with connections with area employers, CBC's IT program prepares students like you for success

Our connections extend beyond the classroom and facilitate internships as well as contests where students can earn awards of recognition, and volunteer work in the community to enhance your holistic growth. Students can also build new connections of their own within our thriving extra-curricular clubs run by students like you. Start your path at CBC with the fundamental skills you'll need to accomplish your career goals of doing what you love and increasing your income potential by joining this growing industry.

**Program Level Outcomes for Computer Science**
Program learning outcomes are the knowledge, skills and abilities that students will achieve before they graduate. The outcomes below were developed by the faculty in the Computer Science program at CBC with input from accrediting bodies, advisory committees, employers, etc. This collaboration ensures that the outcomes are relevant for careers that this degree leads to.
Throughout the Computer Science program, students will accomplish the following Program Level Outcomes (PLOs):

1. Solve a problem using appropriate computing algorithms and techniques.
2. Analyze impact of computer systems on organizations, society and the individual.
3. Apply concepts relating to computer systems (database systems, security, hardware, software, programming languages and networks).
4. Perform the basics of computer and network security.
5. Discuss the professional, ethical and societal issues and responsibility.
6. Communicate with customers, supervisors and co-workers.
7. Identify risks, assess threats and develop solutions to protect computer assets and data

## OUT OF CLASS TO DO'S

- Contact your instructors and/or the CBC Career Services Center to find an internship, observation/shadowing experience, or a job in the IT field.
- Visit the Academic Success Center for quiet study space, small group study, supplemental instruction and tutoring assistance.

## CAREER OPPORTUNITIES

Information Technology (IT) careers are available in every sector of the economy.  CBC's IT program will introduce you to a variety of interesting careers, including Data Analyst, Software Developer, Database Administrator, Tech Support and Business Intelligence (BI) Developer.

### FAQs

**Class Times/Delivery Format**
Classes are offered in a variety of formats, including in-person, online and hybrid.

**Length of Program**
After completing an AA degree,  full-time students typically complete the BAS program in an additional 10 quarters.

**Which Quarter Can I Begin?**
You can begin any quarter!

## APPLY FOR FINANCIAL AID OR OTHER FUNDING

**Please complete:**
**The FAFSA application:** The Free Application for Federal Student Aid (FAFSA) provides financial aid for U.S. citizens and eligible non-citizens, such as permanent residents. Visit the [FAFSA website](#) to create your FSA ID and to complete your application.
**OR**
**The WASFA application:** The Washington Application for State Financial Aid (WASFA) is for DACA or HB 1079 undocumented students. Visit the [Washington Student Achievement Council website](#) to complete your WASFA application.

**Did you know??? You can apply for CBC scholarships two times every year!**  Click [here](#) for more information!

*PLEASE NOTE:  This document represents a sample plan for degree completion with this program of study. Actual course selection and sequence may vary and should be discussed individually with your Completion Coach.  Completion Coaches can also help you plan other experiences to enrich your education such as internships, research, learning communities, and campus involvement and community-based learning.*

**Office Hours:  Monday to Thursday 7 am to 4:30 pm; Friday 7 am to noon**

## LEARN MORE | @ computerscience@columbiabasin.edu  📞 509.544.2262  📍 2600 N. 20th Ave., Pasco, WA 99301