

## Associate’s Degree in Programming for Computer Science

**NOTE:** This page only lists the Degree or certificate specific courses. Changes in general education requirements are currently being evaluated and may impact the number of degree/certificate specific courses in our programs. General education courses are not listed on this document. Please see a college counselor or Sue Krimm in CSIT.

**Purpose:** Students develop skills and knowledge, in a collaborative, hands-on environment. The program is primarily designed to prepare students for 4-year degree programs in Computer Science, Computer Engineering and similar programs. It is also designed to help students gain employment or enhance their careers in computer programming in technical, engineering, or scientific environments. **Students seeking transfer to a 4-year program should consult with a counselor as transfer requirements vary significantly between university systems.**

Required Courses	
Course Name and Number	Prerequisite (a course which must be taken first) Corequisite ( to be taken first, or at the same time)
CS 501 Intro to Computers and Their Uses	
CS 575 Programming Fundamentals	
CS 552 Programming in Java	Pre CS 575
CS 539 Programming in C	Pre: CS 575
CS 516 Beginning Computer Architecture and Organization	Pre: 575 (539 Advised)
CS 536 Intro to Data Structures	Pre: CS 539
CS 540 Object Oriented Programming in C++	Pre: CS 575 and CS 539
CS 532 Advanced Data Structures and Introduction to Database	Pre: CS 536, 539, 575, Co: CS 540
CS 546 Advanced Computer Architecture and Organization	Pre: 575, 516, 539, 536
<b>Math 261</b> Calculus I	
<b>Math 262</b> Calculus II	
<b>Philos 9</b> Symbolic Logic	
One Technical Elective from: CS 572, CS 547, CS 548, CS 550, CS 555, CS 556, Math 263, Math 270, Math 274	

**Notes:**

- **IMPORTANT:** many of these classes are only offered one time per year. Take whichever is available at the time if your prerequisites are complete.
- **Catalog Rights:** Students who attended Pierce with no break in attendance prior to this time may have different requirements that they can use for this degree. Check with David Schamus
- **Math and Philosophy:** Check with the college counselor as one or more may count as a general education course