

Associate’s Degree in Computer and Network Technology

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 David Schamus in CSIT

Purpose: Students develop skills and knowledge, in a collaborative, hands-on environment, that they can use to gain employment or enhance their careers in computer and networking technologies. Additionally, students learn technologies that 3rd party vendors like Cisco, CompTia, and Microsoft assess in their certification programs (Pierce does not issue those certificates, but the courses in this program help students prepare for them).

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 572 Intro to PC Hardware and Operating Systems.	
CS 587 Intro to Computer Networks (Cisco 1)	Co: CS 572
CS 508 Intro to Programming in Visual Basic OR CS 575 Programming Fundamentals	
CS 514 Supporting Windows Desktops	Pre: CS 587
CS 533 Databases Using Access and SQL	Pre: CS 501
CS 534 Operating Systems (Linux/Unix)	Co: CS 572
CS 535 Supporting Windows Servers	Pre: CS 587
CS 578 Routing & Switching Fundamentals (Cisco 2 – Formerly Routing Protocols)	Pre: CS 572 and 587
CS 537 Scaling Internetworks (Cisco 3 - Formerly LAN & VLAN Switching)	Pre: CS 572, 587, & 578
CS 538 Implementing WANs (Cisco 4)	Pre: CS 572, 587, & 578, & 537
CS 550 Intro to Web Dev Using Dreamweaver & CSS	
CS 581 Personal Computer Upgrades and Repair	Pre: CS 572
CS 584 Network Security (Cisco CCNA Security)	

Notes:

- **508:** You do not need both CS 508 and CS 575 for this degree. CS 575 is a very rigorous programming course designed for Computer Science or Computer Engineering majors. The PC & Networking degree allows the less rigorous CS 508 programming course and gives students introductory skills in programming.
- CS 572 and 581 help students prepare for CompTia A+ testing and need be taken in sequence
- CS 587, 578, 537, & 538 help students prepare for Cisco CCNA R&S testing and need to be taken in sequence
- CS 584 helps students prepare for Cisco CCNA Security, and CS 587, 578, and 537 should be taken first
- **IMPORTANT:** many of these classes are only offered one time per year. Students must take both CS 514 and CS 535, but Spring/Fall availability varies. Take whichever is available at the time.
- **Catalog Rights:** Requirements changed in Spring of 2015. 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
- **Stepping stone certificates:** After one year, students may earn a Routing Technologies Cert and PC Service Technology Cert. After the third semester, students may earn a Network Technologies certificate.
- **584:** Network Security can only be taken after Cisco 1-4 and helps student prepare for the CCNA Security exams