2012 Information Technology Programs

Washington State Community & Technical Colleges
What is Information & Computer Technology (ICT)?

Community or Technical College. Almost all ICT careers rely on a strong foundation of math and science and a love of new technologies. Careers range from the purely technical to those that have strong business or science applications, which makes them ideal for students with a wide range of professional skills and preferences.

What are the Job Titles/Career Pathways in Information and Computing Technology that I Can Find at a Washington State Community College, Institute of Technology, or Technical College?

- Business Intelligence Analyst
- Civil Engineer Technician
- Competitive Intelligence Analyst
- Computer Programmer
- Computing Services Support Specialist
- Computer Software Engineer (Mobile Applications)
- Computer Software Engineer (Systems Software)
- Computer Systems Analyst
- Data Analyst
- Data Compression Engineer
- Database Administrator
- Database Developer
- Desktop Services Analyst
- Digital Imaging Specialist
- Energy Grid Support Specialist
- Energy Supply and Demand Analyst
- Financial Analyst
- Game Designer/Developer
- Graphic Designer
- Health Information Systems Specialist
- Health Information Technology Implementer
- Help Desk Technician
- Human Computer Interface Designer
- Information Assurance Specialist
- Information Security Specialist
- Market Research Analyst
- Military Intelligence Analyst
- Mobile Applications Developer
- Multi-Media Artist and Animator
- Network Administrator
- Network Designer
- Pharmacy (Informatics) Systems Analyst
- Security Analyst
- Software Developer
- Software Engineer
- Sustainability Analytics Specialist
- Systems Administrator
- Systems Analyst
- Systems Programmer
- Systems Security Analyst
- Technical Support Specialist
- Telemedicine Technician
- Text Analytics Specialist
- Training and Support Coordinator
- User Interface Developer
- Web Analytics Specialist
- Web Designer and Developer
- Web Specialist
- Webmaster

Note: Anywhere there is a (T) after a degree title, it indicates it is a transfer degree. If there is a “and, transfer” that indicates the two options are either a technical associate or a transfer associate degree.
Program Overview:
In the information and computing industry, careers in database management, software development, and computer support specialist are currently counted among the fastest growing occupations, and are projected to remain so over the next decade. With the increased use of wireless and mobile devices over recent years, there is a growing demand for technicians and specialists in the telecommunications industry. At Bates, there are a number of IT programs that allow students to develop skills in any of these ever-growing and rapidly changing knowledge areas. If students are interested in a satisfying career with strong salary potential, then one of these fields might be right for them.

Depending on the Course of Study, Students Gain Skills in:
+ broadband communications
+ Cisco networking and security
+ communications technology
+ computer hardware
+ desktop applications
+ electronic technology
+ fiber optics and cabling
+ file management
+ hardware and software troubleshooting
+ local area networks (LANs) administration
+ network operating systems
+ operating systems
+ programming languages
+ routing technology
+ system security techniques
+ telecommunications
+ web design and maintenance
+ wide area networks (WANs)
+ wireless technology

Degree Options:
- Associate
  + Computer Network Systems Technician
  + Database Technology (AT, AAS-T)
  + Digital Media (AT)
  + Information Technology Specialist
  + Software Development (AT, AAS-T)
  + Web Development (AT, AAS-T)
  + Wireless Voice and Data Communication

Certificate Options:
+ A+/MCP Certification Training
+ Business Application Development
+ Computer Repair and Network Support
+ Database Technician
+ Digital Media
+ Home Technology Integration
+ Web Technician
+ Wireless Voice and Data Communication

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Program Overview:
Bellevue College has three main ICT-related programs: Information Systems, Networking Services and Computing Systems, and Digital Media Arts. Each program has tracks providing emphasis on specific technologies. The Information Systems program is designed to educate software professionals for entry-level careers as developers or systems analysts. It provides maximum flexibility for students entering the ICT field. Students specialize in one of three areas: Software Development, Business Intelligence, or Database Administration. The Network Services and Computing Systems program focuses on how computers communicate and work together to ensure the security and effective operation of a company’s computer networks. Students specialize in one of three areas: Operating Systems, Applications Support, or Routers and Network Infrastructure. The latter options cover competencies towards specific industry certification. Students who have completed both the Associate in Arts degree in NSCOM and the Associate in Arts and Sciences DTA are eligible to earn a Bachelor of Applied Technology degree at Bellevue College through Eastern Washington University via the Eastern at Bellevue partnership program. The Digital Media Arts program is designed for students interested in studying the creation, use, and management of high-quality digital media content. The primary focus is on the application of digital tools to create videos, games, 3D animations, screen designs, and digital graphics in a project-based, hands-on learning environment. Coursework prepares graduates to work as freelancers or in a variety of industries as digital media creators and content managers.

Depending on the Course of Study, Students Gain Skills in:
- animation
- business intelligence
- data analytics
- database administration
- database reporting
- desktop computer hardware
- game design
- hardware and software troubleshooting
- local area networks (LANs) administration
- object-oriented programming
- operating systems
- routing technology
- system security techniques
- technical support
- video production
- web design and development

Certificates Options:
- Animation and Graphics
- Business Intelligence Analyst
- Business Intelligence Developer
- Cisco Support Technician
- Database Administration Assistant
- Database Analyst
- Database Report Developer
- Digital Gaming
- Digital Video Production
- Intermediate Applications Developer
- Introductory .NET Programming
- Introductory C++ Programming
- Microcomputer Support Specialist
- Microsoft Network Support
- Network Support
- Operating System Support Specialists
- Programming for Web Development
- Web Multimedia Authoring

Degree Options:
Associate in Arts
- Digital Media Arts
- Information Systems
- Network Services and Computing Systems

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Program Overview:
The Computer Network Technology program offers an Associate in Applied Science degree in Computer Network Technology and a certificate in Computer Network Support. Students are prepared to manage computer network systems through a combination of classroom theory and practical application. They develop the knowledge and skills to troubleshoot and repair computer systems; and to design, install, and maintain Local Area Networks (LANs). This program prepares students to obtain industry-standard certifications such as Microsoft Certified Professional (MCP), A+, Network+, Security+, and Linux+. The Computer Software Support Technology program prepares students for employment in jobs such as Computer Support Specialist, Technical Support, Computer Software Specialist, or Help Desk Technician. It also prepares them for obtaining industry certifications such as Microsoft Certified Professional (MCP), A+, and Network+. Students will gain a working knowledge of a variety of computer software and fundamental office and customer service skills as well as specialized computer skills and knowledge.

Depending on the Course of Study, Students Gain Skills in:
- administration
- customer service
- databases
- hardware
- introductory programming concepts
- networking
- network security
- operating systems
- presentation graphics
- spreadsheets
- web design
- word processing

Degree Options:
Associate in Applied Science
- Computer Network Technology
- Computer Software Support

Certificate Options:
- Computer Application Specialist
- Computer Network Support

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Program Overview:
These programs prepare students to work both independently and as part of a team to design, implement, and maintain an organization’s hardware and software network.

Depending on the Course of Study, Students Gain Skills in:
- computer hardware
- database development and design
- hardware and software troubleshooting
- local area networks (LANs) administration
- network administration
- network operating systems
- programming languages
- security design
- system administration
- technical support
- web design
- web programming

Degree Options:
- Associate in Applied Science
  - Network Technology
  - Web Application Programming

Certificate Options:
- Computer Applications Specialist
- Computer Programming Foundations
- Database Development
- JavaScript Programming
- Network Specialist
- PC Network Technician
- Technical Support Specialist
- Web Applications
- Web Foundations

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Program Overview:
The Associate in Arts (AA) degree with Computer Science emphasis is for students interested in transferring to a four-year college or university to complete a bachelor’s degree in computer science. The AA degree represents the broad knowledge generally acquired in the first two years of a four-year program leading to a Bachelor of Arts degree. After students earn the AA from Centralia College, they may transfer to a baccalaureate institution within the state of Washington with assurance that they have satisfied the basic requirements (General University Requirements or Distribution Requirements). This means, generally, that AA transfer students can begin work on their specialized major-area coursework as soon as they transfer.

The Computer Science Technology AA provides students with training in object-oriented languages and multimedia programming, and the hardware and software skills necessary to compete for entry-level employment in the computer programming industry. Students should work closely with their advisor when selecting electives to assure their educational goals are met.

Depending on the Course of Study, Students Gain Skills in:
+ coding dynamic web pages
+ installing and configuring routers in small-scale networks using rip, ospf and/or igrp
+ installing and configuring security programs
+ installing and configuring TCP/IP protocols
+ installing and operating simple web servers
+ scripting static web pages

Degree Options:
Associate in Applied Science
+ Computer Science
+ Computer Science Technology

Certificate Options:
+ E-Commerce for Web
+ Information Technology Data Specialist

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Program Overview:
Clark College in Vancouver maintains three major departments relating to Information and Computer Technology.

The Computer Technology (CTEC) department at Clark College offers training in a variety of foundational and content-specific topics relating to general computer literacy and fluency, computer operating systems interactions, programming, databases, web technology, and networking. CTEC currently offers the Computer Support Specialist program, a certificate in Web Programming and an AAT degree in Web Design and Development, collaboratively delivered with the Computer Graphics Technology (CGT) department.

The Computer Graphics Technology (CGT) program at Clark College provides hands-on learning with technologies used to create visual graphics, develop integrated media, and produce design solutions. CGT curriculum consists of two specialized certificate programs in Web Design or Graphic Design. These certificates can lead to one of our comprehensive AAT degrees in Web and Graphic Design or Web Design and Development.

The Network Technology (DNET) department provides in-demand training for careers as Network Administrators, Network Engineers, and Network Support Specialists. All aspects of modern computer networks, including traditional data, video conference, Voice over Internet Protocol (VoIP) telephone, wireless networks, and network security are featured in degree and certificate programs based on Microsoft and Cisco certifications.

Depending on the Course of Study, Students Gain Skills in:
+ application integration
+ communication
+ computer network operations
+ microcomputer hardware and software
+ networking standards
+ planning and building networks
+ problem solving
+ software solutions development
+ troubleshooting technology

Degree Options:

Associate in Applied Arts and Science (AAS)
+ Cisco Network Administrator
+ Data Networks and Telecommunications
+ Web and Graphic Design

Certificate Options:
+ Cisco Certified Network Associate
+ Cisco Network Technician
+ Computer Applications
+ Computer Network Administrator
+ Computer Support Specialist
+ Datacenter Technician
+ Graphic Design
+ Microcomputer Support Specialist
+ Microsoft Network Technician
+ Software Solutions Development
+ Web Design
+ Web Programming

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Network Technology (DNET)
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Program Overview:
This program prepares students for careers involving the protection of information on computers and networks against unauthorized access or modification of information, and against the denial of service to authorized users. It includes those security measures, both physical and virtual, necessary to detect, document, and counter such threats. Curriculum content includes basic and advanced computer and networking skills, physical and virtual security processes and procedures, and introduction to security management, planning, and recovery as well as other related Information Technology positions.

The AAT or AAS-T degree is earned by completing technical core requirements, general education requirements, and choosing one specialty option (Option 1: Cisco Network Design & Security; or Option 2: Computer & Communications Security; or Option 3: Microsoft Network Administration & Security).

Depending on the Course of Study, Students Gain Skills in:
- computer forensics
- computer hardware
- desktop applications
- hardware and software troubleshooting
- local area networks (LANs) administration
- network administration
- network operating systems
- operating systems (Microsoft and Linux)
- routing technology
- system security techniques
- web security

Degree Options:
Associate of Applied Technology
Associate of Applied Science (T)
- Applications Systems Technology
- Computer Information Technology
- .Net Programming
- Web Programming
- Computer Networking and Information Systems Security
- Cisco Network Design and Security
- Computer and Communications Security
- Microsoft Network Administration and Security

Certificate Options:
- Cisco Network Academy
- Computer Programming
- Design and Implement Wireless LANs
- Network+ Certification Preparation
- Web/Database Developer

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Program Overview:
Throughout the economic ups and downs of the past 20 years the Information Technology field has faced a shortage of qualified professionals. This critical shortage is projected to continue over the next decade, which means that there are excellent job opportunities in the IT field. If students are interested in a satisfying career with strong salary potential, the CBC Computer Science Department has a variety of programs to help them prepare for a job in IT. Students at CBC receive an education with hands-on experience in a broad range of technical subjects and interpersonal skills. The program is designed to provide a well-rounded set of IT skills combined with the specialized computer knowledge that employers are looking for. New students may apply to CBC and begin taking Computer Science classes any quarter of the year. Classes are offered in the traditional format, day and night, and online.

Students may earn a two-year Associate in Applied Science (AAS) degree, which has the six options shown below. All students working towards an AAS degree take a common set of core classes, which provides a solid foundation of IT skills, plus a set of specialized classes which provides the specific skills necessary to work in the student’s area of choice. Furthermore, students may earn a one-year programming certificate in VB.Net, C#.Net, or C++.

Students pursuing a four-year degree may transfer directly into the Bachelor of Applied Science at CBC. In addition, the Computer Science department has direct articulation agreements with WSU, City University, CWU, EWU, and the University of Phoenix. Students may optionally choose to pursue a two-year AST degree, which will be honored at any Washington State baccalaureate institution. (The details of the AST degree are available in the Degrees & Certificates section in the front of the CBC catalog.)

Depending on the Course of Study, Students Gain Skills in:
- animation
- customer service
- database development and design
- desktop applications
- desktop and network operating systems
- digital graphics and design
- hardware and software troubleshooting
- programming
- system and network administration and security
- system and network hardware and design
- web design and development

Degree Options:
- Associate of Applied Science
  - Database Administrator
  - Help Desk Technician
  - Internet Specialist
  - Multimedia
  - Network Administrator
  - Programmer

Certificate Options:
- C#.Net Programming
- C++ Programming
- VB.Net Programming

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Program Overview:
Edmonds Community College offers programs to prepare students for a variety of high-tech careers with great salaries. Both two-year associate’s degrees and one-year certificates are offered. The program also prepares students to transfer to a four-year institution with a Computer Science transfer degree, and our ATA degrees transfer to Central Washington University (CWU) towards a degree in Information Technology and Administrative Management.

Depending on the Course of Study, Students Gain Skills in:
- Cisco networking, including routing and switching
- computer hardware repair and maintenance
- database theory and design
- desktop applications
- digital forensics analysis
- hardware and software troubleshooting
- network administration
- programming
- software engineering
- systems analysis
- web development

Degree Options:
- Associate of Arts & Associate of Science
  - Computer Science

- Associate of Technical Arts
  - Computer Information Systems
  - Database Information Technologies
  - Information Security and Digital Forensics
  - Network Technology
  - Web Applications Developer

Certificate Options:
- Business System Analyst
- Desktop Support Specialist
- Digital Forensics
- Game Development
- Linux Security Specialist
- Network Security Specialist
- Network Technology
- Server Administration
- UNIX/C++
- Web Development
- Windows/C++

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Program Overview:
Everett Community College offers a variety of professional-technical programs in high demand occupations. Short-term training, certificates, and a variety of specific Associate in Technical Arts (ATA) degrees provide many options for students seeking to sharpen their skills, enter the field, or advance within their careers. Students interested in Computer Information Technology have several options, which are described below. One option is to pursue the Associate of Science Degree (AS) for the purpose of preparing to transfer to a university to major in computer science (Software Engineering). Another option is to pursue the Associate of Applied Science Degree (AAS-T) for the purpose of transferring into the Central Washington University program (Technical Support). A third option is to pursue the Associate of Technical Arts Degree (ATA) which is similar to the transfer degree with less stringent General Education requirements.

Depending on the Course of Study, Students Gain Skills in:
+ cabling fundamentals
+ communicating with peers, clients, and supervisors
+ data management and protection
+ hardware repair
+ Internet connectivity using TCP/IP protocols
+ maintaining technical documents
+ networking standards
+ planning and building networks
+ planning and implementing security policies
+ software deployment and support
+ troubleshooting networks

Degree Options:
- Associate in Applied Science
  + Computer Information Systems
- Associate of Science (T)
  + Computer Science
- Associate of Technology Arts (ATA)
  + Computer Information Technology
  + Multimedia: Web Design

Certificate Options:
+ Computer Network Technician
+ Network Systems Associate
+ Network Systems Technician

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Program Overview:
The Information Technology degree and certificate programs prepare students for entry-level employment in a variety of IT positions, including: PC repair technician, help-desk support technician, technical support specialist, network technician, computer security specialist/information assurance technician, and network or computer systems administrator. Students in these degree programs receive education and training in a broad range of subjects, resulting in a balanced, well-rounded knowledge of Information Technology.

Depending on the Course of Study, Students Gain Skills in:
+ computer hardware
+ customer service
+ desktop applications
+ file management
+ hardware and software troubleshooting
+ help desk
+ network administration
+ network operating systems
+ operating systems
+ PC hardware and software
+ programming languages
+ project management
+ security
+ server software
+ system administration
+ system security techniques
+ troubleshooting
+ wireless networking

Degree Options:
Associate in Applied Science (T)
+ Information Technology: Computer Support Specialist
+ Information Technology: Networking
+ Information Technology: Networking Infrastructure
+ Information Technology: Security
+ Information Technology: Systems

Certificate Options:
Certificate of Proficiency
+ IT Help Desk Support Technician

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Program Overview:
The Computer Science/Computer Information Systems (CSCI/CIS) department provides courses and programs designed to prepare students with the technical skills and knowledge to be successful in a variety of Information Technology-related careers. Students graduating with a degree or certificate from the CSCI/CIS program can pursue careers as programmers, web developers, network specialists, database administrators, or specialists in computer forensics or data recovery.

Depending on the Course of Study, Students Gain Skills in:
+ 3D graphics and gaming applications
+ client-side scripting (Javascript, jQuery)
+ computer hardware
+ data recovery
+ database technologies and SQL
+ device forensics
+ flash and actionscripting
+ network administration
+ network forensic, hardening, security
+ operating systems (Windows and UNIX)
+ programming languages (Java, C++)
+ project management
+ routing technology
+ server-side scripting (PHP, Ajax)
+ system security techniques
+ web and database security

Degree Options:
Associate of Science and Associate of Arts
+ Computer Science

Associate in Applied Science
+ Data Recovery and Forensics
+ Information Systems Project Coordinator
+ Network Specialist
+ Web Database Developer

Certificate Options:
+ Data Recovery & Forensics
+ Gaming
+ Networking
+ UNIX/Linux System Administration
+ Web/Database Developer

Contact Information:
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Computer Science and Web Database Developer
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Networking & Data Recovery Forensics
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Program Overview:
The AAS degree programs at Lake Washington Institute of Technology prepare graduates for careers in the areas of Computer Security and Networking Technology, a range of multimedia disciplines (Digital Gaming and Media, Video and Web Production, and Print/Web), and a range of engineering graphics disciplines (Mechanical Design, Architectural Graphics, Civil Engineering Graphics). The Bachelor of Technology in Applied Design accepts students with an AAS in a design-related field (engineering graphics/drafting or multimedia-related majors are optimal). Students work to earn a baccalaureate degree to prepare them to lead and collaborate with teams of creative and technical professionals in the workplace.

Students Develop Skills in:
+ conversion of sketches into detailed drafting specifications
+ customer service
+ game design and animation
+ hardware networking
+ print and digital publishing
+ security
+ technical support
+ video production
+ web design and development

Certificate Options:
Certificate of Proficiency
+ Architectural Graphics
+ Civil Engineering Graphics
+ Engineering Graphics Technician
+ IT Support Technician
+ Network Support Technician
+ Print Design
+ Video and Web Production
+ Web Design

Certificate of Completion
+ AutoCAD
+ CATIA
+ Civil 3D
+ Digital Audio/Video Editing
+ Illustrator/Photoshop Specialty
+ Print Specialty
+ Revit
+ Solidworks
+ Tool Design Graphics
+ Web Page Development
+ Web Server Applications
+ Web Specialty

Degree Options:
Bachelor of Technology
+ Applied Design

Associate in Applied Science
+ Architectural Graphics
+ Civil Engineering Graphics
+ Computer Security and Networking Technology
+ Digital Gaming and Media

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Computer Science

Program Overview:
The Computer Specialist program serves students seeking a two-year AAS (T) degree by providing skills and training pertinent to the workplace and the computing industry. Students qualify for entry-level employment as a computer support specialist, utilizing skills in networking, programming, and applications support by successfully completing program requirements and select areas of emphasis.

Depending on the Course of Study, Students Gain Skills in:
+ application development using at least one of the following languages: C++, Java, and Visual Basic
+ applying basic security concepts to computers in a local area network
+ best practices in customer service
+ design modeling and SQL related to databases
+ designing a network security plan and using a variety of network security tools
+ examination preparation for the A+ hardware certification
+ functioning as members of teams to implement projects
+ networking
+ operating systems
+ requirements for the Network+ certification
+ spreadsheets
+ web pages using XHTML and CSS

Degree Options:
Associate in Applied Science (and transfer)
+ Information Technology Systems

Certificate Options:
+ Help Desk Technician
+ Networking
+ Programming
+ Web Development

Contact Information:
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Program Overview:
North Seattle's Information Technology (IT) program is designed to give students the skills and background employers want, regardless of students’ career goals or experience level. Whether they are building IT knowledge on an existing knowledge base, upgrading skills, or just starting to train for a career, NSCC’s programs can prepare students for the next wave of IT positions with IT courses that provide a foundation of IT skills for a variety of workplaces.

Depending on the Course of Study, Students Gain Skills in:
+ computer hardware
+ database development
+ desktop applications
+ file management
+ hardware and software troubleshooting
+ local area networks (LANs) administration
+ network administration
+ network operating systems
+ operating systems
+ routing technology
+ system security techniques

Degree Options:
Associate of Applied Science (T)
+ Infrastructure and Security

Certificate Options:
+ CCNA
+ Infrastructure and Security
+ UNIX/Linux Administration
+ Windows Administration

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Program Overview:
The Computer Information Systems program prepares its graduates to obtain employment and become productive IT support personnel in a business-oriented systems environment. This modular program allows students to custom design their degree based on their needs within a series of certificates that make up the core of this degree.

Courses prepare students for industry certifications, such as A+, CISSP, CCNA, and MCP, in the areas of Cisco, Microsoft, Security, Technical Support, Networking, and Project Management. Students can take these and other industry certification exams at the Olympic College Testing Center.

Depending on the Course of Study, Students Gain Skills in:
+ analyzing, designing, and building application solutions
+ business communication
+ business management
+ creating network solutions
+ deploying IT security solutions
+ developing web solutions
+ project management
+ using computers to automate business information systems
+ working in teams

Degree Options:
Associate in Applied Science
+ Information Systems Specialist

Associate in Technical Arts
+ Computer Information Systems

Certificate Options:
+ Network Support Technician
+ Technical Support

For short-term certificates of recognition go to:
http://www.olympic.edu/Students/DegreesCertificates/ProfessionalTechnicalPrograms/ComputerInformationSystems/

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Program Overview:
The Associate of Applied Science (AAS) degree in Information Technology – IT Administrator/Business will train and educate students using industry-based skill standards. Students will learn to design, implement, and support network technology on various operating systems. Students will learn about fundamental business language concepts and effective business communication skills. Additionally, students will receive the training necessary to take some Microsoft and Linux certification exams.

The Peninsula College’s Computer Applications Technology (CAT) department provides training in software applications basic skills. The skills taught in this program are the most frequently requested competencies sought by employers throughout all industries.

Depending on the Course of Study, Students Gain Skills in:

- computer hardware
- database administration
- desktop applications
- file management
- hardware
- network administration
- network operating systems
- operating systems
- programming languages
- software
- technical support

Degree Options:

- Associate of Applied Science (and transfer)
  - Computer Applications
  - IT Administrator

Certificate Options:

- Computer Applications
- Computer Applications I
- Computer Applications Fundamentals
- IT Cisco Network Specialist

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Program Overview:
Computers of all shapes and sizes perform hundreds of business functions from bookkeeping and recordkeeping to high-powered futures analysis and industrial forecasting. They have become essential tools in today’s business world, making those with computer skills and knowledge just as essential.
The widespread use of computers for processing technical information has opened a career field which continues to grow. If students are interested in becoming a part of that field, our Computer Information Systems department gives them a variety of choices associated with network engineering, network administration, and services with which to build a future.

Depending on the Course of Study, Students Gain Skills in:
+ computer hardware
+ desktop applications
+ desktop operating systems
+ hardware and software troubleshooting
+ local area networks (LAN) administration
+ network administration
+ network operating systems
+ UNIX network security

Degree Options:
Associate of Applied Science
+ Computer Network Engineering
+ Digital Design
+ Network Administrator

Certificate Options:
+ Certificate in Computer Systems Administration

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Program Overview:
Applications Developer is a one-year certificate option in the two-year Computer Science certificate/degree program. Students enrolled in the Computer Science program may opt to exit in one year after completing the requirements for a certificate as a PC Applications Developer.

The Computer Science program is a follow-on (second year) to the Applications Developer certificate. The student’s education is expanded to prepare for entry in various careers in the Information Technology industry. Job titles include:

- Client-Server Application Developer/Programmer
- Database Developer/Administrator
- Internet Applications Developer/Webmaster
- IT Project Manager
- Network Administrator/Specialist
- Software Tester
- Systems Analyst

Depending on the Course of Study, Students Gain Skills in:
- e-commerce
- graphics
- IT project management
- Java
- Microsoft Visual Studio.NET, and C#
- networking
- project management for Information Technology (presented with hands-on practice using curriculum modeled after the COMPTIA certification content)
- rich Internet clients (AJAX, Mobile Web, SharePoint Development)
- software testing
- SQL database development (Microsoft SQL Server)
- web development (ASP.NET)
- XML

Degree Options:
Associate of Applied Sciences Degree
- Computer Network Technology
- Computer Science

Certificate Options:
- Applications Developer
- Computer Network Technology
- Computer Programming
- Computer Science

** Transfer credit from other institutions will be considered upon validation of transcript and coursework. Students completing the AAS degree requirements may transfer to City University, DeVry University, and University of Phoenix with junior standing in a variety of business and computer related bachelor’s degree programs.

Contact Information:
Karen Braunstein-Post
kpost@rtc.edu
(425) 235-7818
Program Overview:
Despite the recent economic downturn, the information technology field is still growing faster than any other sector of the economy. The Bureau of Labor Statistics Occupational Outlook Handbook 2008-2009 states: “Employment is expected to increase much faster than the average as organizations continue to expand their use of technology.” The Washington State Occupation Explorer confirms these job growth statistics for our state as well. There is a critical shortage of qualified IT professionals, and excellent opportunities exist with both large and small companies and in the public sector.

Seattle Central’s Information Technology program offers a varied suite of degrees aligned to current industry needs. The courses are taught by faculty who keep in close contact with industry professionals to consistently update their knowledge and skills to share and support their students.

Depending on the Course of Study, Students Gain Skills in:
- database administration
- desktop applications
- hardware and software troubleshooting
- network administration
- network operating systems
- operating systems
- programming languages
- technical support
- web design
- web development

Degree Options:

**Associate of Applied Science (T)**
- Applications Support
- Computer Programming
- Network Design and Administration
- Web Design and Web Development

Certificate Options:
- Applications Support
- Business Information Technology
- Cisco Specialist I & II
- Computer Programming
- Computer Support Technician
- Database Design and Administration
- Microsoft Specialist I, II & III
- Network Design and Administration
- Web Design and Web Development

Contact Information:
Lisa Sandoval
lisa.sandoval@seattlecolleges.edu
(206) 934-5575
Program Overview:
These programs help prepare students for jobs in today’s computerized work environments. Students complete hands-on computer training in current applications. They study human relations, mathematics, and communications—all essential for success in the workplace. Graduates of the program find employment in a wide variety of office and administrative support positions. Computer Science transfer students thrive at four year universities across the state, country, and globe.

The Visual Communications Technology program is designed to provide an integrated foundation of knowledge and practice in visual design principles; graphic and typographic design; photography and video; computer graphic technologies; and offset printing, prepress, and new imaging technologies. Students select an area of concentration in graphic design, print production, photography and video, digital interactive media, or marketing, based on personal and career interests.

Depending on the Course of Study, Students Gain Skills in:

- communications
- computer hardware
- desktop applications
- digital interactive media
- human relationships
- problem solving and troubleshooting
- solution development

Degree Options:
Associate of Applied Science
(Associate in Arts and/or Sciences for Computer Science (Transfer))
- Animation and Video for Multimedia
- Business Technology
- Computer Information Systems
- Visual Communication Technology

Certificate Options:
- Business Technology
- Computer Graphics
- Digital Illustration and Animation (Level II)
- Digital Video
- Visual Communication
- Web Design

Contact Information:
Shoreline.edu
(206) 546-4101
Computer Information Systems

Program Overview:
Computer Information Systems (CIS) is a two-year program that leads to an Associate in Technical Arts (ATA) degree. The program offers a degree in Computer Information Systems and four certificates: Computer Information Systems, Computer Applications Support Technician, Network Technician, and Database/Programming. The program is offered in an eLearning (online) format which is recommended for self-motivated students with strong computer skills.

Depending on the Course of Study, Students Gain Skills in:
+ computer hardware
+ office applications
+ database and design
+ hardware and software troubleshooting
+ network support
+ operating systems
+ programming
+ security systems

Degree Options:
Associate in Technical Arts
+ Computer Information Systems

Certificate Options:
+ Computer Information Systems
+ Computer Applications Support Technician
+ Database and Programming
+ Network Technician

Contact Information:
Doris Dunn
doris.dunn@skagit.edu
(360) 679-5315
Program Overview:
The Computer Programming and Database Management program is designed for students interested in writing computer programs in various languages, such as Visual Basic, C#, and Java, both standalone and web-based. Duties include analysis of business needs and problems; design of software solutions; application of industry-standard tools and techniques for software development; and preparation of documentation and user training materials with sound verbal and written skills. The Computer Network Administration program prepares students for positions in network technical support. Duties include hardware and software support, troubleshooting, customer service and training, user support, email support, and network security. The Office Administration program equips the student with a variety of skills used in large or small businesses through the study of keyboarding, formatting, communications, human relations, management, word processing, spreadsheets, and other related courses. Duties include formatting, composing letters, managing records, and reception duties.

Depending on the Course of Study, Students Gain Skills in:

- communication
- database and programming concepts
- developing, creating, and debugging programs
- documenting, communicating, and resolving customer issues
- ethical responsibilities and consequences
- evaluating and processing quantitative and symbolic data
- navigation of relations to others in a multicultural world
- planning and implementing database systems
- recognizing customer needs
- thinking logically and critically
- using industry standard programming tools and techniques
- workstation configuration, upgrades, and software installations

Degree Options:

- Associate in Applied Science
  - Computer Programming
  - Computer Network Administration
  - Database Management
  - Information Technology Desktop Support
- Associate in Applied Science (and transfer)
  - Computer Programming
  - Computer Network Administration
  - Database Management
  - Information Technology Desktop Support
  - Office Administration

Certificate Options:

- Computer Programming
- Office Administration
- Web Design

Contact Information:

Computer Programming
Steve Kollmansberger
skollmansberger@spscc.ctc.edu
(360) 596-5307

Network Administration
George Neal
gNeal@spscc.ctc.edu
(360) 596-5528

Office Administration
Jean Logen
jlogan@spscc.ctc.edu
(360) 596-5279
Computing Technology

Program Overview:
Our Computing Technology programs are constantly evolving to be in sync with the growing, changing, and fast-paced IT industry. Our degree programs are structured to allow students to update skills or to earn a degree. Courses in the Network Administration program provide training in the design, implementation, security, and management of local and wide area networks. Our courses range from introductory through advanced problem solving courses for hardware, operating systems, databases, virtualization, LAN, WAN, and wireless environments. The Network Technician degree program is designed for those students who want or need a less intensive program. Both degrees help to prepare students for the current job market with industry standard certifications such as CCNA, CWNA, Linux+, Network+, and A+. The web design/programming courses provide students with skills and tools to start working as a web support specialist. Graduates with an AAS-T degree may choose to continue their education by earning the Bachelor of Science in Technology degree from EWU without leaving our campus.

Depending on the Course of Study, Students Gain Skills in:
- cloud computing technologies, analysis, ROI
- customer service
- database design, development, and administration
- employment skills
- hardware and software troubleshooting and support
- network administration and security
- operating systems (Windows and Linux)
- router and switch configurations and networking
- virtualization technologies
- web site development, design, and implementation
- wireless communication, WLAN technologies

Degree Options:
Associate of Applied Science and Associate of Applied Science (Transfer)
- Network Administration (AAS and AAS-T (transfer))
- Network Technician (AAS and AAS-T (transfer))

Certificate Options:
- Web Focus Certificate (in development)

Contact Information:
Carol Koepke
carol.koepke@seattlecolleges.edu
(206) 934-6630
Computer Information Systems

Program Overview:
The Network Design and Administration program prepares students as local- and wide-area network administrators. Successful completion of the program provides students with the essential skills of network administration including network design, implementation, maintenance, optimization, and troubleshooting. Students utilize a variety of network operating systems, hardware platforms, and protocols.

The Software Development program educates students in both web and desktop programming concepts including XHTML, JavaScript, Java, Visual Basic. Net, ASP.Net, Ruby on Rails, C#, SQL, Agile development and other technologies and concepts essential for developing state-of-the-art software. Graduates will demonstrate proper software design patterns, soft skills necessary to work on a team, and research methods required in a highly technologically competitive environment. Upon completion, graduates will have acquired skills necessary to design and write database driven software that runs on the desktop (Windows) and Internet (web pages).

Depending on the Course of Study, Students Gain Skills in:
+ database administration
+ LAN networks
+ net development
+ network administration
+ operating systems
+ programming languages
+ security
+ web programming

Degree Options:
Associate of Applied Science
+ Network Design and Administration
+ Software Development

Certificate Options:
+ .Net Developer
+ Cisco CCNA
+ Network Design and Administration
+ Software Development

Contact information:
cis.scc.spokane.edu
or
Echo Rantanen
ERantanen@scc.spokane.edu
(509) 533-8177
Program Overview:
The Information Systems & Computer Science Department at Spokane Falls maintains multiple missions.

The three Computer Science degrees provide a transfer capability for students who want to major in computer science or computer engineering. Applicable classes include introduction to computer science CS I and CS II, OOP with C++, C, Java, and beginning and advanced Visual BASIC, computer literacy, and UNIX. The Information Technology AAS degree program is designed to provide students with capabilities in several areas of information technology and is transferable to Eastern Washington University. This degree ensures that students are knowledgeable in a broad spectrum of information technology subjects that are often needed by the IT industry. The first year is made up of mostly core requirements with more specialization in the second year.

Depending on the Course of Study, Students Gain Skills in:
+ client/server side programming
+ computer and network installation
+ networking
+ programming
+ security and forensics skills
+ web server installation and maintenance

Degree Options:
Associate of Applied Science (DTA & T)
+ Computer Science

Associate of Science (T)
+ Computer Engineering
+ Computer Science

Certificate Options:
+ 3D Animation
+ Computer and Network Support
+ Computer Forensics and Network Security
+ Networking

Contact Information:
Max Josquin
maxj@spokanefalls.edu
(509) 533-3796
Program Overview:

**Computer Science**

Computer Science graduates are prepared to work in an ever-changing technological world. Tacoma Community College (TCC) offers courses that cover the first two years of a typical four-year college computer science program (college-level courses) as well as courses to develop skills needed for college-level computer science courses. Students focus on courses in mathematics, physics, and computer programming. Future students are encouraged to consult catalogs, websites, and advisors at their chosen four-year institutions during their freshman year.

**Network and Convergence Technologies**

In two years or less, students can learn or enhance current skills in the Networking and Convergence Technologies program. TCC offers programs in flexible day, evening, and weekend schedules to help students train and improve employment prospects. TCC's Networking and Convergence Technologies program prepares students for careers in network administration and technical support for both traditional and wireless networks. A series of non-technical and technical core courses provides fundamental computer and system concepts along with related business, office, and communication skills. Advanced coursework includes training in PC hardware and operating systems, Windows servers, networking, routing, security, and wireless networking. Students can prepare for industry certifications such as A+ and Network+ in a hands-on lecture and laboratory environment.

If a student's goal is a four-year degree, each of our Associate in Applied Science degrees has several four-year degree transfer options. Students can also take advantage of optional internships, resume and interview workshops, and industry certification testing, some of the many services offered by the Career Center and the Testing Center.

Depending on the Course of Study, Students Gain Skills in:

- convergence technologies
- hardware
- networking
- operating systems
- PC hardware
- programming
- operating systems
- routing
- security
- server applications
- software applications
- technical support
- wireless networking

Degree Options:

- **Associate of Science**
  - Computer Science

- **Associate of Applied Science**
  - Network and Convergence Technologies

Certificate Options:

- Help Desk Technician
- Network Administration and Support
- Technical Support

Contact Information:

**Computer Science**
Gregory Ferencko
gferencko@tacomacc.edu
(253) 566-5305
Anne Hafer
ahafer@tacomacc.edu
(253) 566-5308

**Network & Convergence Technologies**
Jeanette Smith-Perrone
jsmith-perrone@tacomacc.edu
(253) 566-5292
Program Overview:
Walla Walla Community College has three main ICT programs: Informatics in Networking; Informatics in Digital Design; and Informatics in Software Design. Each program has tracks providing emphasis on specific technologies. The Informatics in Software Design is designed to educate software professionals for careers in Business Intelligence, Database Administration, Database Development, or Software Programming. The Informatics in Networking degree lets students prepare for careers in the Network Services areas. The program focuses on how computers communicate and work together to ensure the security and effective operation of a company’s computer networks. The curriculum is aligned to the Cisco Certified Network Associates and offers support of Cisco routers and Network Infrastructure. This option covers competencies towards specific industry certification, such as Microsoft and CompTIA. The Informatics in Digital Design program is designed for students interested in studying the creation, use, and management of high-quality digital media content. The primary focus is on the application of digital tools such as the Adobe products to create videos, games, 3D animations, screen designs, and digital graphics in a project-based, hands-on learning environment.

Walla Walla Community College’s Computer Science program endeavors to create an understanding of computer operating systems, programming, digital design for the web, and computer applications and hardware, which allow students to solve computer-related problems. Courses are taught in lecture, lab, and cooperative (on-the-job) training formats. Courses are developed by the Computer Science Program Advisory Board, which consists of experts working in local and regional computer-related businesses, and senior faculty.

Depending on the Course of Study, Students Gain Skills in:
- desktop publishing
- hardware and software troubleshooting
- local area networks (LANs) administration
- network administration
- operating systems
- programming languages
- system security techniques
- web design

Degree Options:
Associate in Applied Arts and Science
- Informatics in Digital Design
- Informatics in Networking
- Informatics in Software Design

Certificate Options:
- Informatics in Digital Design
- Informatics in Networking
- Informatics in Software Design

Contact Information:
Robin Greene
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(509) 527-4699
Susan Quinn
susan.quinn@wwcc.edu
(509) 527-4232
Gerald Sampson
gerald.sampson@wwcc.edu
(509) 527-4636
Computing Technology and Digital Design

Program Overview:
The Computer Technology Department of Wenatchee Valley College offers a variety of certificate and degree programs to meet the needs of both students and the business community. Students can choose to specialize in either programming or networking, or combine courses from both disciplines to fit their needs.

Depending on the Course of Study, Students Gain Skills in:

+ hardware and software troubleshooting
+ network administration
+ network operating systems
+ programming languages
+ system security techniques
+ web design

Degree Options:
Associate of Technical Science
+ Computer Technology

Certificate Options:
+ Computer Technician
+ Digital Design

Contact Information:
David Burns
Computer Technology
dburns@wvc.edu
(509) 682-6656
Kristofer Zehm
Digital Design and Graphic Design
kzehm@wvc.edu
Program Overview:
The Computer Information Systems (CIS) program has received numerous awards and endorsements for excellence and includes a variety of degree and certificate options. In recognition of the caliber of the CIS curriculum, faculty credentials and program certifications, WCC was recently named a Center of Academic Excellence in Information Assurance Education (CAE2Y), one of only 13 community colleges nationwide. The program has a special focus in cybersecurity, with curriculum that maps to the national INFOSEC Security Standards 4011 and 4013.

WCC is a Cisco Networking Academy, so students can prepare to take the Cisco Certified Network Associate certification. Other classes prepare students for the CompTIA A+ certification exam. An active CIS club competes in the Pacific Rim Cyber Defense Competition each year, supports an on-campus IT Help Desk, and interacts with local IT business leaders to gain real-world experience.

WCC also offers a Computer Science (AS-T) Associate in Science Transfer Degree. While the degree does not guarantee admission to a major four-year university program, it provides appropriate coursework for students planning to take upper-division classes. The degree will be accepted at many four-year public and private universities in Washington State.

The Visual Communications Program prepares students for entry into careers in the print, web, and digital media design fields. The 90-credit curriculum balances the development of conceptual and visual problem solving skills with development of technical skills and knowledge of current industry practices. The program offers two options for specialty study towards their Associate in Arts Degree: Graphic Design and Web/Interactive Media Design. An active industry advisory committee works with students on real-world design projects each year.

Depending on the Course of Study, Students Gain Skills in:
- design of user interface and interactive displays for media
- forensics
- graphic design
- hardware
- information security
- local area network (LAN) administration
- networking
- oral and written communication
- technical support
- web design and development

Degree Options:
- Associate in Arts
- Visual Communication
- Associate in Science
- Computer Information Systems
- Associate in Science (AS-T)
- Computer Science

Certificate Options:
- Information Security Professional
- Network Administration
- Technical Support

Contact Information:
Computer Information Systems
Corrinne Sande, Program Coordinator
csande@whatcom.ctc.edu
(360) 383-3552

Computer Science and Visual Communications
Jackie Landsem, Program Advisor
jlandsem@whatcom.ctc.edu
(360) 383-3080
Program Overview:
The Information Technology program promotes success in the profession by effectively equipping students with the technology and communication skills necessary to meet the needs of a changing industry. The faculty is committed to delivering excellent instruction, and the college is dedicated to providing students with the tools to succeed. All full-time faculty have appropriate degrees or certifications. Yakima Valley Community College (YVCC) offers exciting Information Technology degree programs. YVCC’s facility houses modern computer classrooms: one hardware classroom and one Cisco router classroom.

Depending on the Course of Study, Students Gain Skills in:
Information Technology degree candidates must complete a 59-credit core which includes courses that present the following concepts:

- communications
- computation
- ethics/law theory
- hardware
- history
- human relations
- Internet
- networking
- programming
- software

The core helps students determine which degree they want to work toward and presents a solid foundation in the Information Technology discipline. Students then select a degree option which totals at least 90 credits upon degree completion. Degrees are awarded upon completion of the required degree courses with a minimum GPA of 2.0.

Degree Options:

**Associate of Applied Science**
- General Degree
- Network Administrator
- Support Specialist
- Web Technologist

Certificate Options:

**Information Technology**
- General
- IT Computer User

(* For short-term certificates go to [http://yvccit.com](http://yvccit.com))

Contact Information:

Information Technology Program
http://yvccit.com
(509) 574-4792

or

David Dalton
ddalton@yvcc.edu
(509) 574-4848
Northwest Washington Colleges by City

Bellevue

**Bellevue College**

Degrees:
- Digital Media Arts
- Information Systems
- Network Services and Computing Systems

Certificates:
- Animation and Graphics
- Business Intelligence Analyst
- Cisco Support Technician
- Database Administration Assistant
- Database Analyst
- Database Report Developer
- Digital Gaming
- Digital Video Production
- Intermediate Applications Developer

**Bellingham**

**Bellingham Technical College**

Degrees:
- Computer Network Technology
- Computer Software Support

Certificates:
- Computer Application Specialist
- Computer Network Support

Whatcom Community College

Degrees:
- Computer Information Systems
- Computer Science
- Visual Communication

Certificates:
- Information Security Professional
- Network Administration
- Technical Support

Bothell

**Cascadia Community College**

Degrees:
- Computer Technology
- Web Application Programming

Certificates:
- Computer Applications Specialist
- Computer Programming Foundations
- Database Development
- JavaScript Programming
- Network Specialist
- PC Network Technician
- Technical Support Specialist
- Web Applications
- Web Foundations

Bremerton

**Olympic College**

Degrees:
- Computer Information Systems
- Information Systems Specialist

Certificates:
- Network Support Technician
- Technical Support

Everett

**Everett Community College**

Degrees:
- Associate in Applied Science
- Computer Information Systems
- Information Technology
- Computer Science
- Associate of Technology Arts (ATA)
- Computer Information Technology
- Multimedia: Web Design

Certificates:
- Computer Network Technician
- Network Systems Associate
- Network Systems Technician

Continued on next page.
Northwest Washington Colleges by City

Kirkland

Lake Washington Technical College

Bachelor of Technology
+ Applied Design

Associate in Applied Science
+ Architectural Graphics
+ Civil Engineering Graphics
+ Computer Security and Networking Technology
+ Digital Gaming and Media
+ Engineering Graphics—Mechanical Design Emphasis
+ Multimedia Design and Production
+ Video and Web Production

Certificate of Proficiency
+ Architectural Graphics
+ Civil Engineering Graphics
+ Engineering Graphics Technician
+ IT Support Technician
+ Network Support Technician
+ Print Design
+ Video and Web Production
+ Web Design

Certificate of Completion
+ AutoCAD
+ CATIA
+ Civil 3D
+ Digital Audio/Video Editing
+ Illustrator/Photoshop Specialty
+ Print Specialty
+ Revit
+ Solidworks
+ Tool Design Graphics
+ Web Page Development
+ Web Server Applications
+ Web Specialty

Mount Vernon

Skagit Valley College

Degrees:
+ Computer Information Systems

Certificates:
+ Computer Applications Support Technician
+ Computer Information Systems
+ Database and Programming
+ Network Technician

Port Angeles

Peninsula College

Degrees:
+ Computer Applications
+ IT Administrator

Certificates:
+ Computer Applications
+ Computer Applications I
+ Computer Applications Fundamentals
+ IT Cisco Network Specialist

Seattle

North Seattle Community College

Degrees:
+ Infrastructure and Security
+ Web Development

Certificates:
+ CCNA
+ Infrastructure and Security
+ UNIX/Linux Administration
+ Windows Administration

Seattle Central Community College

Degrees:
+ Applications Support
+ Computer Programming
+ Network Design and Administration
+ Web Design

South Seattle Community College

Degrees:
+ Network Administration (AAS and AAS-T (transfer))
+ Network Technician (AAS and AAS-T (transfer))

Certificates:
+ Web Focus Certificate (in development)

Shoreline

Shoreline Community College

Degrees:
+ Animation and Video for Multimedia
+ Business Technology or Computer Information Systems
+ Computer Science
+ Visual Communication Technology

Certificates:
+ Art and Design Foundations
+ Business Technology
+ Computer Graphics
+ Digital Illustration and Animation (Level II)
+ Digital Photography (Level II)
+ Digital Video
+ Graphic Design and Production Art
+ Marketing
+ Visual Communication
+ Web Design

Lynnwood

Edmonds Community College

Degrees:
+ Computer Information Systems
+ Computer Science
+ Database Information Technologies
+ Information Security and Digital Forensics
+ Network Technology
+ Web Applications Developer

Certificates:
+ Business System Analyst
+ Desktop Support Specialist
+ Digital Forensics
+ Game Development
+ Linux Security Specialist

Certificates:
+ Applications Support
+ Computer Programming
+ Network Design and Administration
+ Web Design

Certificates:
+ Network Security Specialist
+ Network Technology
+ Server Administration
+ UNIX/C++
+ Web Development
+ Windows/C++
Southwest Washington Colleges by City

Auburn
Green River Community College
Degrees:
+ IT Computer Support Specialist
+ IT Networking
+ IT Networking Infrastructure
+ IT Security
Certificates:
+ IT Help Desk Support Technician

Centralia
Centralia College
Degrees:
+ Computer Science
+ Computer Science Technology
Certificates:
+ E-Commerce for Web
+ Information Technology Data Specialist

Des Moines
Highline Community College
Degrees:
+ Computer Science
+ Data Recovery and Forensics
+ Information Systems Project Coordinator
+ Network Specialist
+ Web Database Developer
Certificates:
+ Data Recovery and Forensics
+ Gaming
+ Networking
+ UNIX/Linux System Administration
+ Web/Database Developer

Lakewood
Clover Park Technical College
Degrees:
+ Applications Systems Technology
+ Computer Information Technology
+ .Net Programming
+ Web Programming
+ Computer Networking and Information Systems Security
+ Cisco Network Design and Security
+ Computer and Communications Security
+ Microsoft Network Administration and Security

Continued on next page.
Southwest Washington Colleges by City (continued)

Certificates:
- Cisco Network Academy
- Computer Programming
- Design and Implement Wireless LANs
- Network+ Certification Preparation
- Web/Database Developer

Pierce College
Degrees:
- Computer Network Engineering
- Digital Design
- Network Administrator

Certificates:
- Computer Systems Administration

Longview

Lower Columbia College
Degrees:
- Information Technology Systems

Certificates:
- Help Desk Technician
- Networking
- Programming
- Web Development

Olympia

South Puget Sound Community College
Degrees:
- Computer Network Administration
- Computer Programming
- Database Management
- Information Technology Desktop Support

Certificates:
- Computer Programming
- Office Administration
- Web Design

Renton

Renton Technical College
Degrees:
- Computer Network Technology
- Computer Science

Certificates:
- Applications Developer
- Computer Network Technology
- Computer Programming
- Computer Science

Tacoma

Bates Technical College
Degrees:
- Computer Network Systems Technician
- Database Technology (AT, AAS-T)
- Digital Media (AT)
- Information Technology Specialist
- Software Development (AT, AAS-T)
- Web Development (AT, AAS-T)
- Wireless Voice and Data Communication

Certificates:
- A+/MCP Certification Training
- Business Application Development
- Computer Repair and Network Support
- Database Technician
- Digital Media
- Home Technology Integration
- Web Technician
- Wireless Voice and Data Communication

Vancouver

Clark College
Degrees:
- Cisco Network Administrator
- Cisco Network Technologies
- Data Networks and Telecommunications
- Microsoft Network Technologies
- Web and Graphic Design
- Web Design and Development

Certificates:
- Cisco Certified Network Associate
- Cisco Network Technician
- Computer Applications
- Computer Network Administrator
- Computer Support Specialist
- Datacenter Technician
- Graphic Design
- Microcomputer Support Specialist
- Microsoft Network Technician
- Software Solutions Development
- Web Design
- Web Programming
Eastern Washington Colleges by City

Pasco
Columbia Basin College
Degrees:
- Database Administrator
- Help Desk Technician
- Internet Specialist
- Multimedia
- Network Administrator
- Programmer
Certificates:
- C# and .Net Programming
- C++ Programming
- VB.Net Programming

Spokane
Spokane Community College
Spokane Falls Community College
Degrees:
- Computer Engineering
- Computer Science
- Information Technology
Certificates:
- 3D Animation
- Computer and Network Support
- Computer Forensics & Network Security
- Networking

Walla Walla
Walla Walla Community College
Degrees:
- Informatics in Digital Design
- Informatics in Networking
- Informatics in Software Design
Certificates:
- Informatics in Digital Design
- Informatics in Networking
- Informatics in Software Design

Wenatchee
Wenatchee Valley College
Degrees:
- Computer Technology
Certificates:
- Computer Technician
- Digital Design

Yakima
Yakima Valley Community College
Degrees:
- General Degree
- Network Administrator
- Support Specialist
- Web Technologist
Certificates:
- General
- IT Computer User
# Washington Colleges by County

## Chelan County
**Degrees:**
- Computer Technology (1) Wenatchee Valley College

**Certificates:**
- Computer Technician (1) Wenatchee Valley College
- Digital Design (1) Wenatchee Valley College

## Clallam County
**Degrees:**
- Computer Applications (1) Peninsula College
- IT Administrator (1) Peninsula College

**Certificates:**
- Computer Applications (1) Peninsula College
- Computer Applications I (1) Peninsula College
- Computer Applications Fundamentals (1) Peninsula College
- IT Cisco Network Specialist (1) Peninsula College

## Clark County
**Degrees:**
- Cisco Network Administrator (1) Clark College
- Data Networks and Telecommunications (1) Clark College
- Web and Graphic Design (1) Clark College

**Certificates:**
- Cisco Certified Network Associate (1) Clark College
- Cisco Network Technician (1) Clark College
- Computer Applications (1) Clark College
- Computer Network Administrator (1) Clark College
- Computer Support Specialist (1) Clark College
- Datacenter Technician (1) Clark College
- Graphic Design (1) Clark College
- Microcomputer Support Specialist (1) Clark College
- Microsoft Network Technician (1) Clark College
- Software Solutions Development (1) Clark College
- Web Design (1) Clark College
- Web Programming (1) Clark College

## Cowlitz County
**Degrees:**
- Information Technology Systems (1) Lower Columbia

**Certificates:**
- Help Desk Technician (1) Lower Columbia
- Networking (1) Lower Columbia
- Programming (1) Lower Columbia
- Web Development (1) Lower Columbia

## Franklin County
**Degrees:**
- Database Administrator (1) Columbia Basin College
- Help Desk Technician (1) Columbia Basin College
- Internet Specialist (1) Columbia Basin College
- Multimedia (1) Columbia Basin College
- Network Administrator (1) Columbia Basin College
- Programming (1) Columbia Basin College

**Certificates:**
- C# Net Programming (1) Columbia Basin College
- C++ Programming (1) Columbia Basin College
- VB Net Programming (1) Columbia Basin College

Source: Google Maps
Washington Colleges by County

King County

Degrees:
+ Applications Support (1) Seattle Central Community College
+ Applied Design (1) Lake Washington Institute of Technology
+ Architectural Graphics (1) Lake Washington Institute of Technology
+ Business Technology (1) Shoreline Community College
+ Computer Information Systems (1) Shoreline Community College
+ Computer Programming (1) Seattle Central Community College
+ Computer Science (2) Highline Community College, Renton Technical College
+ Computer Security and Network Technician (2) Lake Washington Institute of Technology, Renton Technical College
+ Civil Engineering Graphics (1) Lake Washington Institute of Technology
+ Data Recovery and Forensics (1) Highline Community College
+ Digital Media Arts (3) Bellevue College, Lake Washington Institute of Technology, Shoreline Community College
+ Information Systems (3) Bellevue College, Green River Community College, Highline Community College
+ Information Technology: Computer Support Specialist (1) Green River Community College
+ Information Technology: Networking (1) Green River Community College
+ Information Technology: Networking Infrastructure (1) Green River Community College
+ Information Technology: Systems (1) Green River Community College
+ Infrastructure and Security (1) North Seattle Community College
+ Network Design and Administration (3) Seattle Central Community College, North Seattle Community College, South Seattle Community College
+ Network Services and Computing Systems (2) Bellevue College, Highline Community College
+ Network Technician (2) North Seattle Community College, South Seattle Community College
+ Video and Web Production (1) Lake Washington Institute of Technology
+ Visual Communication (1) Shoreline Community College
+ Web Database Developer (1) Highline Community College
+ Web Design and Development (1) Seattle Central Community College

Certificates:
+ NET Programming (1) Bellevue College
+ Animation and Graphics (1) Bellevue College
+ Applications Developer (1) Renton Technical College
+ Application Support (1) Seattle Central Community College
+ Architectural Graphics (1) Lake Washington Institute of Technology
+ AutoCAD (1) Lake Washington Institute of Technology
+ Business Information Technology (2) Seattle Central Community College, Shoreline Community College
+ Business Intelligence Analyst (1) Bellevue College
+ Business Intelligence Developer (1) Bellevue College
+ CATIA (1) Lake Washington Institute of Technology
+ CCNA (1) North Seattle Community College
+ Cisco Support Technician (2) Bellevue College, Seattle Central Community College
+ Civil Engineering Graphics (1) Lake Washington Institute of Technology
+ Computer Graphics (1) Shoreline Community College
+ Data Recovery and Forensics (1) Highline Community College
+ Database Administration Assistant (1) Bellevue College, Seattle Central Community College
+ Database Analyst (1) Bellevue College
+ Database Report Developer (2) Bellevue College, Seattle Central Community College
+ Digital Gaming (2) Bellevue College, Highline Community College
+ Digital Illustration and Animation (Level II) (1) Shoreline Community College
+ Digital Video Production (3) Bellevue College, Lake Washington Institute of Technology, Shoreline Community College, Shoreline Community College
+ Engineering Graphics Technician (1) Lake Washington Institute of Technology
+ Graphic Design (1) Shoreline Community College
+ Illustrator/Photoshop Specialist (1) Lake Washington Institute of Technology
+ Infrastructure and Security (1) North Seattle Community College
+ Technology, Seattle Central Community College
+ Intermediate Applications Developer (1) Bellevue College
+ Introductory. NET Programming (1) Bellevue College
+ Introductory C++ Programming (1) Bellevue College
+ IT Help Desk Support Technician (3) Green River Community College, Lake Washington Institute of Technology, Renton Technical College
+ Linux Security & Networking (1) Lake Washington Institute of Technology
+ College
+ Microcomputer Support Specialist (2) Bellevue College, Seattle Central Community College
+ Microsoft Network Support (2) Bellevue College, Seattle Central Community College
+ Network Design and Administration (1) Seattle Central Community College
+ Network Support (4) Bellevue College, Highline Community College, Lake Washington Institute of Technology, Renton Technical College
+ Operating System Support Specialists (1) Bellevue College
+ Print Design/Specialty (2) Lake Washington Institute of Technology
+ Programming (2) Renton Technical College, Seattle Central Community College
+ Programming for Web Development (1) Bellevue College
+ Revit (1) Lake Washington Institute of Technology
+ Solidworks (1) Lake Washington Institute of Technology
+ Tool Design Graphics (1) Lake Washington Institute of Technology
+ UNIX/Linux Administration (2) Highline Community College, North Seattle Community College
+ Visual Communication (1) Shoreline Community College
+ Web Design, Development, Specialty (7) Highline Community College, Lake Washington Institute of Technology, North Seattle Community College, Seattle Central Community College, Shoreline Community College, South Seattle Community College
+ Web Multimedia Authoring (1) Bellevue College
+ Web Server Applications (1) Lake Washington Institute of Technology
+ Windows Administration (1) North Seattle Community College

Kitsap County

Degrees:
+ Computer Information Systems (1) Olympic College
+ Information Systems Specialist (1) Olympic College

Certificates:
+ Network Support Technician (1) Olympic College
+ Technical Support (1) Olympic College

Lewis County

Degrees:
+ Computer Science (1) Centralia College
+ Computer Science Technology (1) Centralia College

Certificates:
+ E-Commerce for Web (1) Centralia College
+ Information Technology Data Specialist (1) Centralia College

Pierce County

Degrees:
+ Applications Systems Technology (1) Clover Park Technical College
+ Computer Information Technology (1) Clover Park Technical College
+ .Net Programming
+ Web Programming
+ Computer Network Engineering (1) Pierce College
+ Computer Networking and Information Systems Security (1) Clover Park Technical College
+ Cisco Network Design and Security
+ Computer and Communications Security
+ Microsoft Network Administration and Security
+ Computer Network Systems Technician (1) Bates Technical College
+ Computer Science (1) Tacoma Community College
+ Database Technology (AT, AAS-T) (1) Bates Technical College
+ Digital Design/Media (2) Pierce College, Bates Technical College
+ Information Technology Specialist (1) Bates Technical College
+ Network Administrator (1) Pierce College
+ Network and Convergevence Technologies (1) Tacoma Community College
+ Software Development (AT, AAS-T) (1) Bates Technical College

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Certificates:
- Business System Analyst (1) Edmonds Community College
- Computer Applications Specialist (1) Cascadia Community College
- Computer Programming Foundations (1) Cascadia Community College
- Database Development (1) Cascadia Community College
- Desktop Support Specialist (1) Edmonds Community College
- Digital Forensics (1) Edmonds Community College
- Game Development (1) Edmonds Community College
- JavaScript Programming (1) Cascadia Community College
- Linux Security Specialist (1) Edmonds Community College
- Network Technology Security/Specialist/Systems (5) Cascadia Community College, Edmonds Community College, Everett Community College
- PC Network Technician (2) Cascadia Community College
- Server Administration (1) Edmonds Community College
- Technical Support Specialist (1) Cascadia Community College
- UNIX/C++ (1) Edmonds Community College
- Web Applications/Development (2) Cascadia Community College, Edmonds Community College
- Windows/C++ (1) Edmonds Community College

Whatcom County

Degrees:
- Computer Information Systems (1) Whatcom Community College
- Computer Network Technology (1) Bellingham Technical College
- Computer Science (1) Whatcom Community College
- Computer Software Support (1) Bellingham Technical College
- Visual Communication (1) Whatcom Community College

Certificates:
- Computer Application Specialist (1) Bellingham Technical College
- Computer Network Support (1) Bellingham Technical College
- Information Security Professional (1) Whatcom Community College
- Network Administration (1) Whatcom Community College
- Technical Support (1) Whatcom Community College

Yakima County

Degree:
- General Degree (1) Yakima Valley Community College
- Network Administrator (1) Yakima Valley Community College
- Support Specialist (1) Yakima Valley Community College
- Web Technologist (1) Yakima Valley Community College

Certificates:
- General (1) Yakima Valley Community College
- IT Computer User (1) Yakima Valley Community College

Thurston County

Degrees:
- Computer Network Administration (1) South Puget Sound
- Computer Programming (1) South Puget Sound
- Database Management (1) South Puget Sound

Certificates:
- Information Technology Desktop Support (1) South Puget Sound
- Office Administration (1) South Puget Sound

Walla Walla County

Degrees:
- Informatics in Digital Design (1) Walla Walla Community College
- Informatics in Networking (1) Walla Walla Community College
- Informatics in Software Design (1) Walla Walla Community College

Certificates:
- Informatics in Digital Design (1) Walla Walla Community College
- Informatics in Networking (1) Walla Walla Community College
- Informatics in Software Design (1) Walla Walla Community College

Skagit County

Degrees:
- Computer Information Systems (1) Skagit Valley College

Certificates:
- Computer Application Specialist (1) Skagit Valley College
- Computer Information Systems (1) Skagit Valley College
- Computer Network Support/Technician (1) Skagit Valley College
- Database and Programming (1) Skagit Valley College

Snohomish County

Degrees:
- Computer Information Systems (2) Edmonds Community College, Everett Community College
- Computer Information Technology (1) Everett Community College
- Computer Science (1) Edmonds Community College
- Computer Science (1) Everett Community College
- Database Information Technologies (1) Edmonds Community College
- Information Security and Digital Forensics (1) Edmonds Community College
- Networking Technology (2) Cascadia Community College, Edmonds Community College
- Web Application Design/Development/Programming (3) Cascadia Community College, Edmonds Community College, Everett Community College

Certificates:
- Web Development (AT, AAS-T) (1) Bates Technical College
- Wireless Voice and Data Communication (1) Bates Technical College
- A+/MCP Certification Training (1) Bates Technical College
- Business Application Development (1) Bates Technical College
- Cisco Network Academy (1) Clover Park Technical College
- Computer Programming (1) Clover Park Technical College
- Computer Systems Administration (1) Pierce College
- Database Technician (1) Bates Technical College
- Design and Implement Wireless LANs (1) Clover Park Technical College
- Digital Media (1) Bates Technical College
- Help Desk Technician (1) Tacoma Community College
- Home Technology Integration (1) Bates Technical College
- Network+ Certification Preparation (1) Clover Park Technical College
- Network Administration and Support (1) Tacoma Community College
- Technical Support (1) Tacoma Community College
- Web/Database Developer (1) Clover Park Technical College
- Web Technician (1) Bates Technical College
- Wireless Voice and Data Communication (1) Bates Technical College

Spokane County

Degrees:
- Computer Engineering (1) Spokane Falls Community College
- Computer Science (1) Spokane Falls Community College
- Information Technology (1) Spokane Falls Community College
- Network Design and Administration (1) Spokane Community College
- Software Development (1) Spokane Community College

Certificates:
- 3D Animation (1) Spokane Falls Community College
- Cisco CCNA (1) Spokane Community College
- Computer and Network Support (1) Spokane Falls Community College
- Computer Forensics and Network Security (1) Spokane Falls Community College
- Net Developer (1) Spokane Community College
- Network(ing) Design and Administration (2) Spokane Community College, Spokane Falls Community College
- Software Development (1) Spokane Community College

Whatcom County

Degrees:
- Computer Information Systems (1) Whatcom Community College
- Computer Network Technology (1) Bellingham Technical College
- Computer Science (1) Whatcom Community College
- Computer Software Support (1) Bellingham Technical College
- Visual Communication (1) Whatcom Community College

Certificates:
- Computer Application Specialist (1) Bellingham Technical College
- Computer Network Support (1) Bellingham Technical College
- Information Security Professional (1) Whatcom Community College
- Network Administration (1) Whatcom Community College
- Technical Support (1) Whatcom Community College

Yakima County

Degree:
- General Degree (1) Yakima Valley Community College
- Network Administrator (1) Yakima Valley Community College
- Support Specialist (1) Yakima Valley Community College
- Web Technologist (1) Yakima Valley Community College

Certificates:
- General (1) Yakima Valley Community College
- IT Computer User (1) Yakima Valley Community College

Washington Colleges by County (continued)