



Computer Information Systems

- Computer Information Systems - AAS-T
- Computer Information Systems - ATA
- Computer Network Technician
- Network Systems Technician
- Network Systems Associate

GENERAL INFORMATION

The Computer Information Systems (CIS) program at EvCC offers several options for students. Certificates prepare students for entry level positions in networking and computer support-related career fields. Associate degrees point you to more complex employment options and can also prepare you for transferring into a bachelor's degree program.

Associate in Applied Science - Transfer in Computer Information Systems (AAS-T/CIS).

The intent of this degree is to provide learners with a solid technical background in information technology while building in a greater number of college-transferrable credits that will provide transfer efficiency. This degree is designed specifically for transfer to Central Washington University's Bachelor of Applied Science degree in Information Technology and Administrative Management (ITAM), currently offered in Everett. For more information, go to: http://www.uceverett.org/eVault/library/docs/ITAM_revised.pdf

Associate in Technical Arts (ATA) in Computer Information Technology.

This degree is focused on preparing students for entry-level career positions in networking and computer support. Technical core skills dominate in this degree and related instruction courses may not transfer. Completion of the degree may require some courses to be taken at neighboring community colleges, where students strengthen their chosen interest emphasis. With proper course selection, it is transferable to Central Washington University's ITAM program and to The Evergreen State College's Upside Down Degree Program.

Certificate in Computer Network Technician Certificate in Network Systems Technician Certificate in Network Systems Associate

These certificates, ranging from 18-72 credits, provide the foundation in computer networking essentials, and can lead to industry certifications.

Other pathways:

Associate of Science in Computer Science - University transfer.

Please refer to separate curriculum guide. Prepares students for transfer into Computer Science baccalaureate programs.

Associate of Technical Arts in Multimedia Production: Web Design -

Technical degree using computing as a platform for visual design. Also certificates in Multimedia: Web Design, Digital Illustration, and Graphic Design

ATA degrees in Business Administration, Accounting, and Business Technology and their related certificates teach the uses of computing in varied office support settings.

EvCC's Corporate and Continuing Education Center offers a variety of intensive non-credit workshops and courses in a variety of computer topics. See: www.campusce.net/everett/category/category.aspx?S=40 or call 425-267-0150 for more information.

Computer Information Systems studies place an emphasis on teamwork. Several courses require team projects aimed at finding real-world solutions to business problems. Internships provide actual work experience. Careers in this field value logic, attention to detail, and the skill of communicating effectively. Networking is a dynamic field and change is constant. Successful technicians must be strongly motivated self-learners. The CIS curriculum prepares students with the foundation skills to become successful technicians.

CS Program Outcomes:

- Demonstrate technical computing skills to prepare for independent certification, or to be technically competent in a particular computing position or job field.
- Communicate both in writing and verbally about computing concepts and processes using technical terms, while also able to describe concepts effectively to both professional and lay audiences.
- Apply appropriate math tools and problem solving in the context of their work.
- Work as an effective and dependable team member, as well as independently.
- Demonstrate how and when to self-start, especially in learning and seeking new knowledge in an ever-changing field.
- Operate ethically, integrating law, company rules and policies, and individual decision-making.
- Demonstrate safe work habits that reflect concern and care for self, others, and the environment.
- Develop the skills and experience necessary to secure employment including development of documents and skills necessary for job search.

SUGGESTED PREPARATION

Students considering enrollment in these programs should be proficient in touch keyboarding and have familiarity with computer applications. Students without computer experience should first take CL 101 or DEV ED 096. Students pursuing the AAS-T degree are advised to complete MATH 099 before starting the program, or in the first term.

ARE YOU JUST BEGINNING?

Careers using computer technologies vary, ranging from office work using various software programs to programming to computer repair to engineering and more. Consult a CIS advisor in order to identify your interests, and the skills and abilities needed for the different options available at EvCC.

PROGRAM ADVISORS

For on-campus credit courses and programs, please contact:

Michael Crehan, SHK 112, 425-388-9048,
mcrehan@everettcc.edu

Theresa Markovich, OLY 217, 425-388-9241
tmarkovich@everettcc.edu

GETTING STARTED AT EVCC

Enrollment Services provides information about applying, orientation, and registration for new and continuing students. All prospective students are invited to contact the Educational Planning Center if they would like to speak one-to-one with an educational planner about getting started..

-Enrollment Services, Jackson Center, 425-388 9219
admissions@everettcc.edu

-Educational Planning Center, Parks 3rd Fl, 425-388-9339

➔ **Certificate checklists** should be maintained by the student while at Everett Community College and brought to all advising sessions. The quarter before expected completion, this checklist should be submitted by the student, with a diploma application, to the Enrollment Services office. All degree requirements are listed in the College Catalog. A grade of C or higher must be earned in each required course. Please see Notes on page 3.

Student Name: _____ Advisor Signature: _____ Date: _____

COMPUTER NETWORK TECHNICIAN CERTIFICATE

This course provides a foundation in computer networking concepts aimed at initial jobs in a career pathway. Students seeking industry certification in addition to college recognition should consider testing for CompTIA A+ and Network+ certifications and/or Microsoft Certified Professional (MCP 70-680) certification. These tests are not administered as part of the college coursework, but may enhance an individual's profile when seeking employment. This checklist is designed for students interested in the **Computer Network Technician Certificate**.

Prerequisite: CL101 or permission of the instructor.

Course Number	Course Title	Credits	Quarter Completed	Grade
CS 101 OR CS 102	_____	2	_____	_____
CS 108	Introduction to Operating Systems (PR)	5	_____	_____
CS 117	Introduction to Computer Networks (PR)	5	_____	_____
CS 161	PC Technician I (PR)	5	_____	_____
CS 162	PC Technician II (PR)	5	_____	_____
Select one (R) course: BUS 110D, 165; CMST 204D, &210, &230; HDEV 155		3-5	_____	_____
TOTAL CREDITS		25-27		

NETWORK SYSTEMS TECHNICIAN CERTIFICATE

This course provides a foundation in computer network systems concepts. Content in CS 224 provides a strong foundation for industry certification as a Microsoft Certified Professional (MCP 70-640 and 70-642) as well as certification in CompTIA Server+. Additional study and experience acquired on the job will support the maturing of knowledge expected on these tests. Students are encouraged to seek this recognition. These tests are not included in program registration or administered as part of the college coursework, but may enhance an individual's profile when seeking employment. This checklist is designed for students interested in the **Network Systems Technician Certificate**.

Prerequisites: Completion of coursework appropriate to each individual class listed below.

Course Number	Course Title	Credits	Quarter Completed	Grade
CS 102 (see note)	Students who have not completed Computer Network Technician Certificate need to pass CS102 to ensure credits and placement based on prior learning assessment	2 (not required of ALL)	_____	_____
CS 122	LAN Architecture—Design, Concepts & Implementation (PR)	5	_____	_____
CS 195	Computer Careers Internship (PR)	3-5	_____	_____
CS 222	WAN Architecture—Design, Concepts & Implementation (PR)	5	_____	_____
CS 224	Network Server Administration (PR)	5	_____	_____
TOTAL CREDITS		18-22		

NETWORK SYSTEMS ASSOCIATE CERTIFICATE

This longer certificate should be considered by students looking for a well rounded technical core of networking concepts. It “stacks” the two previous shorter certificates and rounds out the graduate with the communications and computation skills that many employers are seeking. Please see Notes below. This checklist is designed for students interested in the **Network Systems Associate Certificate**.

Student Name: _____ Advisor Signature: _____ Date: _____

Prerequisites: only as appropriate to individual courses. All credits in the two shorter certificates “stack” to compose the technical core of this longer certificate. Courses do not need to be earned in any particular order to be included here, but must be completed in order to earn the certificate.

To complete this certificate, all courses must be completed

- _____ Completion of Computer Network Technician Certificate (25-27 credits)
- _____ Completion of Network Technician Certificate (18-22 credits)

The following additional courses must be completed to earn the longer certificate:

<input type="checkbox"/> COMPLETION of Diversity Course	_____	_____	_____
(See Note 1)	Where completed/Course Title	Year Completed	Grade
<u>Course Number</u>	<u>Course Title</u>	<u>Credits</u>	<u>Quarter Completed</u>
ENGL 098/098D or ENGL& 101/101D	_____	5	_____
Select one: MATH 092, 098, 099, &107 or any MATH prefix course that satisfies a (Q) requirement.	_____	5	_____
CS 195/295	Internship	2	_____
TOTAL CREDITS 55-61			

The following notes apply to the Certificates and to the ATA degree.

Note 1: Students should select ENGL 098D or ENGL& 101D or BUS 110D, or CMST 204D in order to meet the Diversity requirement.

Note 2: EvCC does not offer every course each quarter. Please consult the Class Schedule and a CIS advisor to plan course selection.

Note 3: Waivers for any of the required courses may be considered on the basis of verifiable evidence of previously acquired skills. Prior Learning credit or waivers should be accomplished by enrolling in CS 102. Such waivers can be granted by the faculty member for that course for students enrolled in the course. Substitution waivers for equivalent academic coursework can be initiated only by a CIS advisor listed in this curriculum guide, and must be approved by the Dean. A waiver does not excuse the student from the requirement to earn the minimum required credits. (Waivers may not be used for the AAS-T degree.)

Note 4: (R) Human relations; (Q) Quantitative skills; (PR) there is a course prerequisite.

Everett Community College does not discriminate on the basis of race, religion, creed, color, national origin, age, sex, sexual orientation, marital status, the presence of any physical, sensory or mental disability, genetic information or status as a disabled or Vietnam era veteran in its program and activities, or employment. The Vice President of Instruction and Student Services has been designated to handle inquiries regarding student-related non-discrimination policies and can be reached at 2000 Tower Street, Everett, WA 98201, or by phone at (425)388-9216. The Vice President of Administrative Services/Human Resources has been designated to handle employment-related inquiries regarding the non-discrimination policies and can be reached at 2000 Tower Street, Everett, WA 98201, or by phone at (425)388-9232. This publication is effective **MAY 2011**. The College reserves the right to change courses, programs, degrees and requirements. It is the student's responsibility to be aware of correct information by routinely checking with Enrollment Services and/or the advisors listed in this publication. Requirements applicable to all certificates and degrees are published in the College Catalog. Nothing contained herein shall be construed to create any offer to contract or any contractual rights. For more information, call 425-388-9219, Everett Community College, 2000 Tower Street, Everett, WA 98201, www.everettcc.edu

ASSOCIATE IN TECHNICAL ARTS COMPUTER INFORMATION SYSTEMS

This checklist is designed for students interested in the **Computer Information Systems ATA degree**. Completion of this degree may require students to transfer in up to 18 credits from another college. Partners in the regional 5-Star consortium have many appropriate courses that can be used. Students need to meet with a CIS advisor and maintain this checklist while at Everett Community College. The quarter before expected completion, this checklist should be submitted with a diploma application to the Enrollment Services Office. A full description of the College's requirements for earning a certificate or degree is contained in the College catalog. All degree requirements are listed in the Catalog, including the completion of at least 90 credits, with a minimum 2.0 GPA; please note that this degree requires a minimum of 90 credits. A grade of C or higher must be earned in each of the required CS courses. This degree may be transferable to Central Washington University's ITAM program and to The Evergreen State College if ENGL& 101 and MATH 100 or higher are completed with a grade of C or higher, along with other advisor-selected electives.

Student Name: _____ Advisor Signature: _____ Date: _____

COMPLETION of Diversity Course

Course Number	Course Title	Credits	Quarter Completed	Grade
RELATED INSTRUCTION				
ENGL 098 or &101 See Note 1	_____	5	_____	_____
Select one (R): BUS 110D, 165; CMST 204D, &210, &230; HDEV 155	_____	3-5	_____	_____
Select one: MATH 092, 098, 099, &107 or any MATH prefix course that satisfies a (Q) requirement.	_____	5	_____	_____

REQUIRED COURSES (A grade of C (2.0) or higher must be earned in each required course below.)

CS 101 OR CS 102	_____	2	_____	_____
CS 108	Introduction to Operating Systems (PR)	5	_____	_____
CS 117	Introduction to Computer Networking (PR)	5	_____	_____
CS 122	LAN Architecture (PR)	5	_____	_____
CS 161	PC Technician I (PR)	5	_____	_____
CS 162	PC Technician II (PR)	5	_____	_____
CS 195/295	Computer Careers Internship	2	_____	_____
CS 222	WAN Architecture (PR)	5	_____	_____
CS 224	Network Server Administration (PR)	5	_____	_____
CS 120	Beginning Web Pages (PR)	5	_____	_____

TECHNICAL ELECTIVES Choose 21-23 credits of any Computing-related technical or Computer transfer courses (Note 1)

_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

GENERAL ELECTIVES Choose 10 credits from any Distribution or Transfer courses (Note 2)

_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

Minimum 90 credits required, with minimum 2.0 GPA.

1. Includes Computing-related non-transferor or transfer courses regardless of prefix. Ex: Programming in any language, project management, computer applications, digital design, graphics, databases, forensics, security, electronics, job search, etc.
2. Recommended: Physics or Business Courses or any course(s) in the field in which the technician anticipates serving. The D course may be used here if not already accounted for.

ASSOCIATE IN APPLIED SCIENCE – T COMPUTER INFORMATION SYSTEMS

This checklist is designed for students interested in the **AAS-T/CIS degree**. Students should meet with a CIS advisor and maintain this checklist while at Everett Community College. The quarter before expected completion, this checklist should be submitted with a diploma application to the Enrollment Services Office. A full description of the College's requirements for earning a certificate or degree is contained in the College catalog. All degree requirements are listed in the Catalog, including the completion of at least 90 credits, with a minimum 2.0 GPA. **SPECIAL NOTE: This degree is designed to transfer to Central Washington University's Information Technology and Administrative Management degree. Transfer to CWU requires a cumulative GPA of 2.3 or higher. At least a C- in each course is required in order to meet admission criteria. Course substitutions require the approval of Central Washington University.**

Student Name: _____ Advisor Signature: _____ Date: _____

COMPLETION of Diversity Course

_____ (Where Completed/Course Title) _____ (Year Completed) _____ (Grade)

Course Number	Course Title	Credits	Quarter Completed	Grade
GENERAL EDUCATION (Minimum 30 credits)				
ENGL& 101	English Composition I	5	_____	_____
ENGL& 102	Composition II	5	_____	_____
BUS& 101	Introduction to Business	5	_____	_____
MATH - Select one of: MATH 100, &107, &141, &144, &148 or &151	_____	5	_____	_____
Natural Science Lab - Select one from CHEM& 121 or 161, GEOL 102, NATL S 107, PHYS &121, &221/&231	_____	_____	_____	_____
Natural Science - ANTH &215; ASTR& 100, 101; BIOL& 175, &221, &222; ENV& 100, 101; GEOG 205.	_____	5	_____	_____
REQUIRED COURSES (50 credits)				
CS 108	Introduction to Operating Systems	5	_____	_____
CS 120	Beginning Web Pages	5	_____	_____
CS 117	Introduction to Computer Networking	5	_____	_____
CS& 131	Computer Science I C++	5	_____	_____
CS 132 (See Note 1)	Computer Programming II C++	5	_____	_____
CS 161	PC Technician I	5	_____	_____
CS 162	PC Technician II	5	_____	_____
CS 122	LAN Architecture	5	_____	_____
CS 222	WAN Architecture	5	_____	_____
CS 224	Network Server Administration	5	_____	_____
ELECTIVES (10 - 25 credits from the following list. Please note that CWU will accept up to 105 transfer credits from a community college.)				
CS 195/295	CIS Internship	2-5	_____	_____
BT 162	Job Search and Prof. Development	5	_____	_____
Select one from: ENGL&111; HUM &101	_____	5	_____	_____
Select one from: ART &100; DRMA& 101; FILM 100; MUSC &105, 110D, 115, 116	_____	5	_____	_____
Select one from: PHIL &101, 110, 215, 267	_____	5	_____	_____
Select one from: ECON 101D, &201; HIST& 146, 147, 148; POLS &202	_____	5	_____	_____
Select one from: ANTH 116D, &206D; CHCST 105D; CMST 204D; GEOG 201D; PSYC& 100; SOC& 101	_____	5	_____	_____

Minimum 90 credits required, with minimum 2.0 GPA.

Note 1: Another computer programming language course may be used in place of C++, such as Java or C# ; consult your advisor.