



## Program Map

# Computer Information Technology: Computer Programming C++

Certificate: Level 1 (C1)



### COMPUTER SCIENCE & INFORMATION TECHNOLOGY

**Program Description:** This is a course sequence for students interested in Computer Programming C++.

**Contact:**

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**Department Website:**

sites.austincc.edu/cs

*Use this Program Map to choose courses with your college advisor and track your progress towards milestones and completion of program.*

Pre-Degree Requirements		
Program Specific	Reading and Writing Placement <i>Placements based on TSI</i>	Mathematics Placement <i>Placements based on TSI</i>
<input type="checkbox"/> Prerequisite for ITSE 2309 - COSC 1315 (or corequisite) or COSC 1336 (or corequisite) or department approval. <input type="checkbox"/> Prerequisite for BCIS 2390 - Sophomore standing or department approval.	<input type="checkbox"/> Basic Developmental Courses <input type="checkbox"/> ESOL Courses <input type="checkbox"/> INRW Courses	<input type="checkbox"/> 0332 - Basic Math Skills <input type="checkbox"/> 0370 - Elementary Algebra <input type="checkbox"/> 0385 - Developing Mathematical Thinking <input type="checkbox"/> 0390 - Intermediate Algebra <input type="checkbox"/> 0421 - Developmental Math

### SEMESTER-BY-SEMESTER PROGRAM PLAN FOR FULL-TIME STUDENTS

C1=Level 1 Certificate

*Plans can be modified to fit the needs of part-time students by adding more semesters*

C1	Semester 1	CR	Advising Notes
•	COSC 1301 - Introduction to Computing	1	
•	ITNW 1325 - Fundamentals of Networking Technologies	3	
•	ITSE 2309 - Database Programming: Oracle	3	
•	COSC 1336 - Programming Fundamentals I	3	
		12	Program Semester Hours / Meet with your advisor
	Semester 2		
•	ITSC 1307 - UNIX Operating System I	3	
•	ITSE 1345 - Introduction to Oracle SQL and PL/SQL	3	
•	COSC 1337 - Programming Fundamentals II	3	
		9	Program Semester Hours / Meet with your advisor
	Semester 3		
•	BCIS 2390 - System Analysis and Design: Project Management	3	
•	ITSE 2331 - Advanced C++ Programming	3	Capstone course. <b>ACHIEVEMENT:</b> Completion of Computer Programming C++ Level 1 Certificate
		6	Program Semester Hours
Total Program Hours: 27			

Please always check online at [austincc.edu/catalog](http://austincc.edu/catalog) or meet with your academic or program advisor to ensure that you are viewing the latest and most accurate information.

## Career & Transfer Resources

ACC's Career & Transfer websites provide detailed, guided information on career exploration and transfer.

For further information regarding this specific program, please see the Career & Transfer Resources supplement provided in the next section of this Program Map.

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Career & Transfer Resources Updated 4/17/18

## Career Information

### Common Job Titles

Computer Programmer, Analyst Programmer, Applications Developer, Computer Programmer, Computer Programmer Analyst, Internet Programmer, Java Developer, Programmer, Programmer Analyst, Software Developer, Web Programmer

### Regional Labor Market Information

Computer Programmer: New workers generally start around \$51,761. Normal pay for Computer Programmers is \$79,182 per year, while highly experienced workers can earn as much as \$128,901. Over the last year, 361 companies have posted 1,399 jobs for Computer Programmers. There are currently 3,045 Computer Programmers that are employed in Austin-Round Rock, TX.

Source: <https://austincc.emsicc.com/careers/computer-programmer>

**Career and labor market research tools** (see Quick Reference Guide at <http://www.austincc.edu/career>):

EMSI: <https://austincc.emsicc.com/>, Bureau of Labor Statistics: <http://www.bls.gov/ooh/>, O\*NET: <https://www.onetonline.org/>

**Career Resources:** ACC's career services website provides information on career exploration and employment at <http://www.austincc.edu/career>. Students are encouraged to consult with their area of study advisor for additional career assistance. The above information is provided as a guide and reference tool for occupations related to this program. This is not a guarantee of job placement in any of these occupations after successful completion of an ACC program. The common job titles listed are representative titles and are provided for career research. These are not the only occupations possible in this area of study.

## Transfer Information

The Associate of Applied Science in Computer Information Technology: Computer Programming C++ is a workforce pathway that provides students with the skills that local employers need in the Information Technology field. A Bachelor of Applied Arts and Sciences (BAAS) is a degree option for students in AAS programs who want to transfer and complete a 4-year degree.

**Transfer Guides:** *The universities listed here do not constitute an ACC endorsement. Transfer course evaluations and determination of which courses will count toward a bachelor's degree are made by the receiving transfer institution.*

**Texas State University:** <http://www.owls.txstate.edu/undergraduate-degrees/applied-arts-sciences.html>

**Concordia University Texas:** <http://www.concordia.edu/academics/college-of-business-and-communication/baas-in-business.html>

**Tarleton State University:** <http://www.tarleton.edu/degrees/bachelors/baas-business/>

**Texas A&M University - Central Texas:** <https://www.tamuct.edu/degrees/undergraduate/business-management.html>

**Texas Tech University:** [https://www.depts.ttu.edu/universitystudies/prospective\\_students/baas.php](https://www.depts.ttu.edu/universitystudies/prospective_students/baas.php)

**Additional Transfer Resources:** ACC's transfer website provides information on additional colleges & universities:

<http://www.austincc.edu/transferguides>. Students are encouraged to consult with a faculty advisor, area of study advisor, and/or their chosen transfer institution to ensure courses taken at ACC will apply toward their bachelor's degree program.