



Program Map

Computer Information Technology: Computer Programming

Degree: Associate of Applied Science (AAS)

Certificate: Occupational Skills Award (OSA)



COMPUTER SCIENCE & INFORMATION TECHNOLOGY

Program Description: The Computer Information Systems Associate of Applied Science degree in Computer Programming includes courses from the Arts and Sciences Curricula, as well as a wide array of computer courses designed to train the student for an entry-level programming position.

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>
<ul style="list-style-type: none"> <input type="checkbox"/> Prerequisite for MATH 1314 - MATD 0390 with a C or better or a satisfactory score on the ACC Mathematics Assessment Test or completion of TSI requirements in mathematics. <input type="checkbox"/> Prerequisite for MATH 1324 - MATD 0390 with a C or satisfactory score on the ACC Mathematics Assessment Test or completion of TSI requirements in mathematics. <input type="checkbox"/> Prerequisite for ENGL 1301 - TSI complete in reading and writing or exempt. <input type="checkbox"/> Prerequisite for COSC 1337 - COSC 1336 or department approval. <input type="checkbox"/> Prerequisite for ITSE 2321 - COSC 1336 or department approval. <input type="checkbox"/> Prerequisite for ITSE 2309 - COSC 1315 (or corequisite) or COSC 1336 (or corequisite) or department approval. <input type="checkbox"/> Prerequisite for ITSE 1325 - COSC 1301 (or corequisite) or department approval. <input type="checkbox"/> Prerequisite for ITSE 1307 - One semester of programming or ITNW 1325. <input type="checkbox"/> Prerequisite for BCIS 2390 - Sophomore standing or department approval. 	<ul style="list-style-type: none"> <input type="checkbox"/> Basic Developmental Courses <input type="checkbox"/> ESOL Courses <input type="checkbox"/> INRW Courses 	<ul style="list-style-type: none"> <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

D=Degree

OSA=Occupational Skills Award

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

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

OSA	D	Semester 1	CR	Advising Notes
	●	EDUC 1100 - Effective Learning: Strategies for College Success	1	New ACC Students with less than 12 SCH of successful college credit must take EDUC 1100 in their first semester. All other students can choose EDUC 1100 or another 1 credit hour course.
	●	MATH 1324 - Mathematics for Business and Economics OR MATH 1314 - College Algebra	3	
	●	ENGL 1301 - English Composition I	3	
●	●	COSC 1301 - Introduction to Computing	3	
●	●	COSC 1336 - Programming Fundamentals I	3	
●	●	ITNW 1325 - Fundamentals of Networking Technologies	3	
			16	Program Semester Hours / Meet with your advisor

		Semester 2		
	•	ENGL 2311 - Technical and Business Writing	3	
	•	ITSE 2309 - Database Programming: Oracle	3	
	•	COSC 1337 - Programming Fundamentals II OR ITSE 2321 - Object-Oriented Programming	3	
	•	Social and Behavioral Sciences	3	Select from the appropriate section of the Core Curriculum Course List.
•	•	Computer Elective	3	Select elective courses that are in accordance with career objectives. Subject to departmental approval. Select Computer Elective from ITNW 1337, ITSC 1309, ITSE 1301, ITSW 1304, ITSW 1307, ITSY 1300. ACHIEVEMENT: Completion of Computer Programming Occupational Skills Award
			15	Program Semester Hours / Meet with your advisor
		Semester 3		
	•	ITSC 1325 - Personal Computer Hardware	3	
	•	ITSC 1307 - UNIX Operating System I	3	
	•	Oral Communication	3	Select from SPCH 1311, SPCH 1315, SPCH 1318, SPCH 1321.
	•	Programming Elective I or II	3	Select Programming Elective I from COSC 1337, GAME 1343, GAME 2341, ITSE 1303, ITSE 1311, ITSE 1330, ITSE 1331, ITSE 1356, ITSE 1359, ITSE 1391, ITSE 1394, ITSE 2302, ITSE 2305, ITSE 2309, ITSE 2321. Select Programming Elective II from COSC 2325, COSC 2436, GAME 1359, GAME 1394, GAME 2342, GAME 2347, INEW 2338, ITSC 2337, ITSE 1345, ITSE 1359, ITSE 1392, ITSE 1393, ITSE 2302, ITSE 2305, ITSE 2317, ITSE 2331, ITSE 2343, ITSE 2349, ITSE 2356.
	•	Programming Elective I or II	3	Select Programming Elective I from COSC 1337, GAME 1343, GAME 2341, ITSE 1303, ITSE 1311, ITSE 1330, ITSE 1331, ITSE 1356, ITSE 1359, ITSE 1391, ITSE 1394, ITSE 2302, ITSE 2305, ITSE 2309, ITSE 2321. Select Programming Elective II from COSC 2325, COSC 2436, GAME 1359, GAME 1394, GAME 2342, GAME 2347, INEW 2338, ITSC 2337, ITSE 1345, ITSE 1359, ITSE 1392, ITSE 1393, ITSE 2302, ITSE 2305, ITSE 2317, ITSE 2331, ITSE 2343, ITSE 2349, ITSE 2356.
			15	Program Semester Hours / Meet with your advisor
		Semester 4		
	•	BCIS 2390 - System Analysis and Design: Project Management	3	Capstone course.
	•	ITSC 2264 - Practicum -- CIS, General OR Programming Elective II	2-4	Select Programming Elective II from COSC 2325, COSC 2436, GAME 1359, GAME 1394, GAME 2342, GAME 2347, INEW 2338, ITSC 2337, ITSE 1345, ITSE 1359, ITSE 1392, ITSE 1393, ITSE 2302, ITSE 2305, ITSE 2317, ITSE 2331, ITSE 2343, ITSE 2349, ITSE 2356.
	•	Programming Elective II	3-4	Select Programming Elective II from COSC 2325, COSC 2436, GAME 1359, GAME 1394, GAME 2342, GAME 2347, INEW 2338, ITSC 2337, ITSE 1345, ITSE 1359, ITSE 1392, ITSE 1393, ITSE 2302, ITSE 2305, ITSE 2317, ITSE 2331, ITSE 2343, ITSE 2349, ITSE 2356.
	•	Programming Elective II	3	Select Programming Elective II from COSC 2325, COSC 2436, GAME 1359, GAME 1394, GAME 2342, GAME 2347, INEW 2338, ITSC 2337, ITSE 1345, ITSE 1359, ITSE 1392, ITSE 1393, ITSE 2302, ITSE 2305, ITSE 2317, ITSE 2331, ITSE 2343, ITSE 2349, ITSE 2356.

	•	Language, Philosophy, and Culture OR Creative Arts	3	Select from the appropriate section of the Core Curriculum Course List. ACHIEVEMENT: Completion of Computer Programming Associate of Applied Science degree
			14-17	Program Semester Hours
Total Program Hours: 60-63				

Please always check online at 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.

www.austincc.edu/career

www.austincc.edu/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>):

EMS: <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 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

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.