



**Location: All Campuses**

**Certificate: Computer Programming**

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**Program Description:** The Computer Programming Certificate emphasizes knowledge and skills required to design, develop, test, and document structured and object-oriented programs utilizing a variety of programming languages. It prepares students for entry-level positions in computer programming. Successful completion may lead to Certified Software Development Professional and Oracle Certified Java Programmer.

*Use this Program MAP as a guide to choose courses with your advisor and track progress towards milestones and completion of program. Work with an advisor to customize your plan to align with your specific career and/or transfer goals.*

Recommended Proficiencies: RDG100 College Reading

**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

Semester 1		Credit Hours	Semester 2		Credit Hours
<input type="radio"/>	CIS120 Survey of Computer Information Systems	3	<input type="radio"/>	CIS112 Web Design Fundamentals	3
<input type="radio"/>	CIS121 Microcomputer Operating System Fundamentals	3	<input type="radio"/>	CIS123 Introduction to Programming	3
<input type="radio"/>			<input type="radio"/>	CIS178 Database Fundamentals and Programming (Spring Only)	3
<b>Semester Credits:</b>		<b>6</b>	<b>Semester Credits:</b>		<b>9</b>
Semester 3		Credit Hours			Credit Hours
<input type="radio"/>	CIS162 Comparative Programming Languages (Fall Only)	3	<input type="radio"/>		
<input type="radio"/>	CIS176 Python Programming (Fall Only)	3	<input type="radio"/>		
<input type="radio"/>	CIS216 Java Programming (Fall Only)	4	<input type="radio"/>		
<b>Semester Credits:</b>		<b>10</b>	<input type="radio"/>		

**Total Program Hours: 25**

Total program cost, including tuition, books, and fees is approximately \$3,220. Financial aid may be available.

**CAREER INFORMATION**

**Career Outlook:** Computer Programming jobs are among the occupations projected to grow the fastest and add the most new jobs over the 2018–2028 decade, resulting in excellent job prospects. Employment is projected to grow much faster than the average for all occupations and add 286,600 new jobs over the next decade.

As part of Central Arizona College’s TRUE Learning Community, our Career & Transfer Center supports students in achieving their goals through career development and transfer to a four-year institution. It provides the following services: transfer workshops, university representative visits, admission application assistance, local university campus tours, career resources, and much more. For more information, visit CAC Career & Transfer Center at [centralaz.edu/transfer](http://centralaz.edu/transfer).

If you are interested in pursuing an AAS degree in Software Development with an emphasis in computer programming, review that degree map and talk to an advisor.