

American River College ~ Computer Information Science
A.S. CIS: Computer Programming

Course check off sheet



Semester Completed

Required Program

	CISC	310	Introduction to Computer Information Science	3
	CISP	350	Database Programming	3

Subtotal Units: 6

C++ concentration

	[CISP	300	Algorithm Design/Problem Solving (3)	5 - 7
	and CISP	360	Introduction to Structured Programming (4)]	
	or CISP	480	Honors Introduction to Structured Programming (5)	
	CISP	400	Object Oriented Programming with C++	4
	CISP	430	Data Structures	4

C++ concentration Units: 13 - 15

Total Units: 19 - 21

Java concentration

	[CISP	300	Algorithm Design/Problem Solving (3)	5 - 7
	and CISP	360	Introduction to Structured Programming (4)]	
	or CISP	480	Honors Introduction to Structured Programming (5)	
	CISP	401	Object Oriented Programming with Java	4

A minimum of 3 units from the following: 3

	CISC	320	Operating Systems (1)
	CISC	323	Linux Operating System (1)
	CISC	324	Intermediate Linux Operating System (1)
	CISP	310	Assembly Language Programming for Microcomputers (4)
	CISP	362	Programming for Mobile Devices I (4)
	CISP	363	Programming for Mobile Devices II (4)

Java concentration Units: 12 - 14

Total Units: 18 - 20

Visual Basic concentration

	CISA	322	Design and Development of Desktop Database Applications	3
	CISP	300	Algorithm Design/Problem Solving	3
	CISP	370	Beginning Visual Basic	4
	CISP	371	Intermediate Visual Basic	4

Visual Basic concentration Units: 14

Total Units: 20

The Computer Science Associate in Science (A.S.) degree may be obtained by completion of the required program, plus general education requirements, plus sufficient electives to meet a 60-unit total. See ARC graduation requirements.

Notes: