American River College ~ Computer Information Science
CIS: Computer Programming
Course check off sheet

Semester
Completed

Required Program

	CISC	310	Introduction to Computer Information Science	3
	CISC	320	Operating Systems	1
	Subtotal Units:			4

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

A minimum of 1 unit from the following: 1

	CISC	323	Linux Operating System (1)	
	CISC	324	Intermediate Linux Operating System (1)	

C++ concentration Units: 14 - 16

Total Units: 18 - 20

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	350	Database Programming	3
	CISP	401	Object Oriented Programming with Java	4

A minimum of 2 units from the following: 2

	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: 14 - 16

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	350	Database Programming	3
	CISP	370	Beginning Visual Basic	4
	CISP	371	Intermediate Visual Basic	4

Visual Basic concentration Units: 17

Total Units: 21

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:

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