



## CURRICULUM GUIDE 2011-2012

### COMPUTER STUDIES

#### Associate in Arts in Computer Studies and Certificate of Achievement in Computer Studies

##### Requirements for Associate in Arts Degree:

- Complete Major Field courses from one of the two options indicated below with a grade of C or better.
- Complete Plan A, B, or C General Education requirements. These requirements are specified in the Ohlone College catalog.
- Complete at least 60 degree-applicable units with a 2.0 grade point average.
- Complete at least 12 units at Ohlone College.

##### Requirements for Certificate of Achievement:

- Complete one of the Major Field options as indicated below.
- Complete at least six units at Ohlone College.
- Maintain a 2.0 grade point average in Major Field courses.

##### MAJOR FIELD

Students must complete all courses in one of the following two options listed below:

##### Option #1-Computer Programming (Software Development)

CS-101	Introduction to Computers and Information Technology	3
*CS-102	Introduction to Computer Programming Using C++	4
*CS-113/MATH-163	Discrete Mathematics for Computers	3
*CS-116	Object-Oriented Programming Using C++	4
*CS-118	Introduction to Assembly Language Programming	4
*CS-124	Programming with Data Structures OR	4
CS-170	Java Programming	(4)
CS-152	Data Communications	2
CS-178	XML	<u>3</u>
		27

\*Note: These Major Field courses and other supporting courses are usually required by most four-year colleges and universities for the computer science major. Consult the specific college's catalog for details.

**RECOMMENDED MAJOR FIELD ELECTIVES**

Courses may not be taken for duplicate credit.

CNET-160A	Microsoft Client Operating Systems	2
CS-146	Introduction to UNIX/Linux	<u>3</u>
		3
Total Required Units:		30

**Option #2 – Computer Programming (Internet/Web Programming)**

CS-101	Introduction to Computers and Information Technology	3
CS-104A	Introduction to .NET Programming	4
CS-104B	Advanced .NET Programming	4
CS-113/MATH-163	Discrete Mathematics for Computers OR	3
MATH-156	Math for Liberal Arts OR	(3)
MATH-166	Finite Mathematics	(4)
CS-149	PERL Programming OR	4
CS-176	Introduction to PERL CGI Programming Development	(4)
CS-152	Data Communications	2
CS-170	Java Programming	4
CS-175	From JavaScript to AJAX	<u>4</u>
		28-29

**RECOMMENDED MAJOR FIELD ELECTIVES**

Courses may not be taken for duplicate credit.

CNET-160A	Microsoft Client Operating Systems	2
CS-102	Introduction to Computer Programming Using C++	4
CS-146	Introduction to UNIX/Linux	3
CS-149	PERL Programming	4
CS-175	From JavaScript to AJAX	4
CS-176	Introduction to PERL CGI Programming Development	4
CS-177	E-Commerce	<u>4</u>
		3-4
Total Required Units:		31-32