



**CURRICULUM GUIDE
2009-2010**

COMPUTER STUDIES

**AA Degree
and
Certificate of Achievement**

Requirements for AA Degree:

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

Requirements for Certificate of Achievement:

- a) Complete one of the Major Field options as indicated below.
- b) Complete at least six units at Ohlone College.
- c) 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
Major Field Electives		<u>3</u>
		27

Recommended Major Field Electives: CNET-160A, CS-121, CS-146. (Courses may not be taken for duplicate credit.) *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.

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	(4)
CS-152	Data Communications	2
CS-170	Java Programming	4
CS-175	Script Technology for Web Development	4
Major Field Electives		<u>3</u>
		31-32

Recommended Major Field Electives: CNET-160A, CS-102, CS-146, CS-149, CS-175, CS-176, CS-177. (Courses may not be taken for duplicate credit.)