



CURRICULUM GUIDE 2006-2007

COMPUTER STUDIES

AA Degree and Certificate of Achievement Program

Requirements for AA Degree:

- Complete Major Field courses from one of the two options indicated below with a 2.0 grade point average.
- Complete Plan A, B, or C General Education requirements. These 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	C++ Programming: An Object-Oriented Language	4
*CS-118	Introduction to Assembly Language Programming	4
*CS-124	Advanced Programming with Data Structures OR	4
CS-170	Java Programming	(4)
CS-152	Data Communications (Network+)	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	Visual Basic.NET Programming	4
CS-104B	Advanced Visual Basic.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	CGI Programming with PERL for Web Development	(3)
CS-152	Data Communications (Network+)	2
CS-170	Java Programming	4
CS-171	Advanced Java Programming	4
CS-175	Script Technology for Web Development	4
Major Field Electives		<u>3</u>
		34-35

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.)