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:

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)

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

(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.)

(over)
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 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 4
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 4
3-4

Total Required Units: 31-32