<table>
<thead>
<tr>
<th></th>
<th>Fall Year 1</th>
<th>Winter Year 1</th>
<th>Spring Year 1</th>
<th>Summer Year 1</th>
<th>Fall Year 2</th>
<th>Winter Year 2</th>
<th>Spring Year 2</th>
</tr>
</thead>
</table>
| **CS 101 (formerly CO SCI 103)**<br>INTRODUCTION TO COMPUTER SCIENCE<br>Also fulfills Area B2 requirement                                                 | 3 units                                                                                                                                   | To reduce units in primary terms, it is suggested to take a GE course (3 units)                                                                                                                               | **CS 103 (formerly CO SCI 104)**<br>MATHEMATICS FOR PROGRAMMERS
  3 units                                                                                                           | To reduce units in primary terms, it is suggested to take a GE course (3 units)                                                                                                                                  | **ELECTIVE**<br>CS 116 (formerly CO SCI 139)<br>PROGRAMMING IN C++
  Prerequisite: CS 101 or CS 111 or CO SCI 103 or CO SCI 108 or CS 113 (formerly CO SCI 141)<br>PROGRAMMING IN JAVA
  (Prerequisite: CS 101 or CS 111 or CO SCI 103 or CO SCI 108)
  3 units                                                                                                           | To reduce units in primary terms, it is suggested to take a GE course (3 units)                                                                                                                                  | **CS 130 (formerly CO SCI 117)**<br>INTRODUCTION TO COMPUTER ARCHITECTURE AND ORGANIZATION
  Prerequisite: CS 113 or CS 116 or CO SCI 139 or CO SCI 141
  3 units                                                                                                           |                                                                                                                                                                                                                      |                                                                                                                                                                                                                      |                                                                                                                                                                                                                      |
| **CS 111 (formerly CO SCI 134)**<br>SUPPORTING WINDOWS DESKTOPS                                                                                                          | 3 units                                                                                                                                   |                                                                                                                                                                                                                      | **CS 102 (formerly CO SCI 107)**<br>PROGRAMMING LOGIC AND DESIGN (INTRODUCTION TO PROGRAMMING)
  3 units                                                                                                           |                                                                                                                                                                                                                      | **CS 219 (formerly CO SCI 186)**<br>INTRODUCTION TO ORACLE: SQL AND PL/SQL
  3 units                                                                                                           |                                                                                                                                                                                                                      | **CS 136 (formerly CO SCI 136)**<br>INTRODUCTION TO DATA STRUCTURES
  Prerequisite: CO SCI 139 or CO SCI 141 (eliminate CO SCI 138)
  3 units                                                                                                           |                                                                                                                                                                                                                      |                                                                                                                                                                                                                      |                                                                                                                                                                                                                      |
| Area D2: Communication and Analytical Thinking<br>Suggested:<br>MATH 125 INTERMEDIATE ALGEBRA<br>Prerequisite: MATH 115 or Any equivalent or higher level MATH course 3 - 6 units | 3 - 6 units                                                                                                                                | **CIS 148 (formerly CO SCI 158)**<br>INTRODUCTION TO WEB DEVELOPMENT HTML & CSS
  Prerequisite: CS 101 or CS 101 or CSIT 101 or CSIT 103
  3 units                                                                                                           | Area D1: English Composition<br>ENGLISH 101 COLLEGE READING AND COMPOSITION I
  Prerequisite: ENGLISH 028 or ESL 008 or Placement by multiple measures; Advisory: ENGLISH 108
  3 units                                                                                                           | **CS 119 (formerly CO SCI 124)**<br>PROGRAMMING IN PYTHON
  (Prerequisite: CS 101 or CS 111 or CO SCI 103 or CO SCI 108)
  3 units                                                                                                           | *Area A: Natural Sciences<br>Suggested: Any CHEM or PHYSICS course 3 - 5 units                                                                                                                                     | **CS 216 (formerly CO SCI 140)**<br>OBJEKT ORIENTED PROGRAMMING IN C++
  (Prerequisite: CS 116 or CO SCI 139) or CS 213 (formerly CO SCI 142)**<br>ADVANCED PROGRAMMING IN JAVA (Prerequisites: CS 101 and CS 113 or CO SCI 103 and CO SCI 141)
  3 units                                                                                                           | *Choose additional course if needed to reach 60 units<br>See listing of Full CSU GE or IGETC for suggestions 1 - 3 units                                                                                       | *Choose additional course(s) if needed to reach 60 units<br>See listing of Full CSU GE or IGETC for suggestions 1 - 6 units                                                                                     |
| *Area E1: Health Choose any 3 units                                                                                                                                   | 3 units                                                                                                                                   | *Area A1: American Institutions Choose any 3 units                                                                                                        | *Area C: Humanities Choose any 3 - 5 units                                                                                                                                  | *Choose additional course if needed to reach 60 units<br>See listing of Full CSU GE or IGETC for suggestions 1 - 3 units                                                                                     | *Choose additional course(s) if needed to reach 60 units<br>See listing of Full CSU GE or IGETC for suggestions 1 - 6 units                                                                                     |                                                                                                                                                                                                                      |
| *Area E2: Physical Education Activity (non-classroom)<br>Choose any Only if not satisfied in Area E1 by taking HEALTH 002 1 unit | 1 unit                                                                                                                                    |                                                                                                                                                                                                                      |                                                                                                                                                                                                                      |                                                                                                                                                                                                                      |                                                                                                                                                                                                                      |                                                                                                                                                                                                                      |

**Semester Units:**
- Fall Year 1: 12 to 16
- Winter Year 1: 15
- Spring Year 1: 15 to 19
- Summer Year 1: As needed to reach at least 60 total units

**Major Units:**
- Fall Year 2: 33 (3 units also fulfill GE requirements)
- Winter Year 2: 1 to 9
- Spring Year 2: 60

**General Education (GE) Units (21 unit minimum):**
- Fall Year 2: 21 to 29

**Additional Units:**
- Fall Year 2: 1 to 9
- Winter Year 2: 1 to 9
- Spring Year 2: 1 to 9

**Total Units (60 unit minimum):**
- 60

*For the complete list of LACC General Education requirements, see the LACC Catalog, p.72. Area D1: English Composition (English 101) and Area D2: Communication and Analytical Thinking should be taken within the first year. All other GE courses can be taken in any semester. If appropriate, English and Math can be taken in the same semester.

Students who feel they need additional support in order to be successful in English and math should see a counselor for information about support courses, tutoring services, and boot camps.
<table>
<thead>
<tr>
<th>SUGGESTED ADDITIONAL COURSES FOR FULL CSU GE OR IGETC</th>
</tr>
</thead>
</table>
| (a) PHILOS 005 CRITICAL THINKING AND COMPOSITION  
  **Prerequisite:** ENGLISH 101  
  to meet  
  IGETC Area 1B |
| (b) MATH 260 PRECALCULUS  
  **Prerequisite:** MATH 240 or 258 or placement by multiple measures  
  or MATH 261 CALCULUS I  
  **Prerequisite:** MATH 260 or placement by multiple measures  
  to meet  
  IGETC Area 2 |
| (c) Additional SOC SCI, HUMAN, and sciences courses to meet the 7-course pattern for UCs |