Advisement Form 2014-2015

Name__________________________________________ID________________________________

Students must obtain a grade of C- or better in all prerequisite courses in the IT major.

<table>
<thead>
<tr>
<th>Units</th>
<th>Course</th>
<th>Grade Term</th>
<th>Prerequisites, GE &amp; Comments</th>
</tr>
</thead>
</table>

**Lower Division Requirements (17 units)**

**Statistics: Select one of the following:**

- MATH 201 Elementary Statistics 3
  - Prereq: Passing score on ELM Exam or MATH 101 or 105; GE: B3
- MATH/PSY 202 Biostatistics 3
  - Prereq: Passing score on ELM Exam or MATH 105; GE: B3
- MATH 329 Statistics for Business and Economics 3
  - Prereq: MATH 101 or 105; GE: B3

**Two Semesters Laboratory Science: Physics, Chemistry or Biology (8 units)**

- BIOL 200 Principles of Organismal and Population Biology 4
  - GE: B2
- BIOL 201 Principles of Cell and Molecular Biology 4
  - Prereq: CHEM 105 or 121; GE: B2
  - OR
  - CHEM 121 General Chemistry I 4
  - Prereq: Passing score on CHEM placement exam or CHEM 105; GE: B1
  - OR
  - CHEM 122 General Chemistry II 4
  - Prereq: CHEM 121 with a C or better; GE: B1
  - OR
  - PHYS 100 Introduction to Physics I 4
  - GE: B1
  - PHYS 101 Introduction to Physics II 4
  - Prereq: PHYS 100; GE: B1

**First Course in Programming (3 units)**

- COMP 105 Computer Programming Introduction 3
  - Prereq: Passing score on ELM Exam; GE: B4

**First Course in Computer Architecture and Assembly Language (3 units)**

- COMP 162 Computer Architecture and Assembly Language 3
  - Prereq: COMP 121 or COMP 150 or IT 151

**Core Courses (27 units)**

- IT 151 IT Programming 3
  - Prereq: MATH 301 and COMP 105 or equivalent
- IT/COMP 221 Unix System Programming I 3
  - Prereq: COMP 151 or IT 151
- IT/COMP 420 Database Theory and Design 3
  - Prereq: MATH 300 or MATH 301 and COMP 151 or IT 151
- IT 421 Unix System Programming II 3
  - Prereq: COMP/IT 221
- IT/COMP 424 Computer System Security 3
  - Prereq: COMP 151 or IT 151 required, COMP 362 or IT 421 recommended
- IT/COMP 429 Computer Networks 3
  - Prereq: COMP 232 and COMP 362 or IT 221 and IT 421
- MATH 300 Discrete Mathematics or MATH 301 Discrete Mathematics for IT 3
  - Prereq (MATH 300): MATH 230
- MGT 307 Management of Organizations 3
  - Prereq: COMP 101 or equivalent
- MIS 310 Management Information Systems 3
  - Prereq: COMP 101 or equivalent
### Upper Division Electives (18 units)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Units</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP/MATH/PHYS 345</td>
<td>Digital Image Processing</td>
<td>3</td>
<td>Junior Standing or Consent of instructor; GE: B1, B4, UDIGE</td>
</tr>
<tr>
<td>COMP 350</td>
<td>Introduction to Software Engineering</td>
<td>3</td>
<td>COMP 232 &amp; 262</td>
</tr>
<tr>
<td>COMP 362</td>
<td>Operating Systems</td>
<td>4</td>
<td>COMP 151, 162, 232, and 262</td>
</tr>
<tr>
<td>COMP 425</td>
<td>Computer Game Programming</td>
<td>3</td>
<td>COMP 151</td>
</tr>
<tr>
<td>IT 380</td>
<td>Web Programming</td>
<td>3</td>
<td>COMP/IT 151 &amp; MATH 300 or 301; formerly IT 280</td>
</tr>
<tr>
<td>IT 400</td>
<td>eCommerce</td>
<td>3</td>
<td>IT 380 and COMP/IT 420</td>
</tr>
<tr>
<td>IT 401</td>
<td>Web Intelligence</td>
<td>3</td>
<td>IT 402</td>
</tr>
<tr>
<td>IT 402</td>
<td>Advanced Web Programming</td>
<td>3</td>
<td>COMP 151 or IT 151 or IT 152</td>
</tr>
<tr>
<td>IT/ART/COMP 464</td>
<td>Computer Graphics Systems and Design I</td>
<td>3</td>
<td>COMP 350 and MATH 240 or COMP 221 and MATH 301</td>
</tr>
<tr>
<td>IT 490</td>
<td>Special Topics for IT</td>
<td>3</td>
<td>Senior standing in BSIT program; Repeatable by topic up to 9 units</td>
</tr>
<tr>
<td>IT 492</td>
<td>Internship</td>
<td>1-3</td>
<td>Upper-Division Standing and Program approval of written proposal</td>
</tr>
<tr>
<td>IT 494</td>
<td>Independent Research</td>
<td>1-3</td>
<td>Upper-Division Standing and Program approval of written proposal. Repeatable by topic up to 9 units</td>
</tr>
<tr>
<td>IT 497</td>
<td>Directed Studies</td>
<td>3</td>
<td>Program approval of written proposal</td>
</tr>
</tbody>
</table>

### Technology Electives (9 units)

See the BSIT faculty advisor for a listing of suitable CI courses.

### Capstone (4 units)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Units</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>IT 491</td>
<td>Capstone Preparation</td>
<td>1</td>
<td>COMP 362 or IT 421 and Senior Standing in the IT Program</td>
</tr>
<tr>
<td>IT 499</td>
<td>Capstone</td>
<td>3</td>
<td>IT 491</td>
</tr>
</tbody>
</table>

### Additional University Graduation Requirements

9 Units Upper Division Interdisciplinary GE (UDIGE) at CSUCI (courses numbered 330-349 or 430-449)

- **C or better grade requirement. Upper Division standing required for these courses**
- (may choose COMP 345)
- (outside major)

**American Institutions Requirements:**

- **US History**
  (choose HIST 270, 271, 272, 275 or 350)
- **State and Local Gov’t**
  (choose POLS 150)

*Students must receive a grade of C or better in the Language and Multicultural Requirements*

**Language Requirement:** GE C3a

(one semester of college level language)

**Multicultural Requirement:** GE C3b

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Minimum total units to graduate: 120 of which 40 must be upper division. See catalog for a complete list of graduation requirements.