



# Bachelor of Science INFORMATION TECHNOLOGY

**Advisement Form 2008-2009**

Name \_\_\_\_\_ ID \_\_\_\_\_

|   | Un. | Instit. | Course | Units | Grade | Term | Prerequisites, GE & Comments   |
|---|-----|---------|--------|-------|-------|------|--|
| <b>Core Courses (25 units)</b>  |     |         |        |       |       |      |  |
| COMP 151 Data Structures and Program Design                                   | 4   |         |        |       |       |      | Prereq: COMP 150   |
| COMP 262 Computer Organization and Architecture                               | 3   |         |        |       |       |      | Prereq: COMP 151 and 162   |
| IT 280 Web Programming  | 3   |         |        |       |       |      | Prereq: COMP 151 and MATH 301  |
| COMP 362 Operating Systems  | 3   |         |        |       |       |      | Prereq: COMP 262   |
| IT 420 Database Theory and Design for IT                                      | 3   |         |        |       |       |      | Prereq: MATH 301   |
| IT 429 Computer Networks for IT   | 3   |         |        |       |       |      | Prereq: COMP 362   |
| MGT 307 Management of Organizations   | 3   |         |        |       |       |      |  |
| MIS 310 Management Information Systems  | 3   |         |        |       |       |      | Prereq: Comp 101 or equivalent   |
| <b>Mathematics and Science Requirements (7 units)</b>                         |     |         |        |       |       |      |  |
| MATH 301 Discrete Mathematics for IT  | 3   |         |        |       |       |      |  |
| Lab Science II (PHYS, BIOL or CHEM)   | 4   |         |        |       |       |      | GE: B1 or B2 depending on science chosen                                   |
| <b>Electives (15 units)</b> <i>Select 15 units from courses listed below:</i> |     |         |        |       |       |      |  |
| <b>NOTE: Nine units of the 15 units must be taken in IT courses</b>           |     |         |        |       |       |      |  |
| ART 324 Communication Design Technology: Web Design                           | 3   |         |        |       |       |      | Prereq: ART 204 and 205; Repeatable up to 6 units                          |
| ART 326 Digital Media Art: 3D Computer Animation                              | 3   |         |        |       |       |      | Prereq: ART 206 and 312 or consent of instructor; Repeatable up to 6 units |
| COMP 232 Programming Languages  | 3   |         |        |       |       |      | Prereq: COMP 151 and 162   |
| COMP 337 Survey of Computer Gaming  | 3   |         |        |       |       |      | GE: B4, INTD   |
| COMP/PHYS/MATH 345 Digital Image Processing                                   | 3   |         |        |       |       |      | Prereq: Consent of instructor; GE: B1, B4, INTD                            |
| COMP 350 Introduction to Software Engineering                                 | 3   |         |        |       |       |      | Prereq: COMP 232 and 262   |
| COMP 425 Computer Game Programming  | 3   |         |        |       |       |      | Prereq: COMP 429, 464  |
| COMP 447 Societal Issues in Computing   | 3   |         |        |       |       |      | Prereq: Senior standing; GE: B4, D, INTD                                   |
| COMP/PSY 449 Human-Computer Interaction                                       | 3   |         |        |       |       |      | Prereq: Programming experience or consent of instructor; GE: B4, E, INTD   |
| COMP/MATH 452 Computational Bioinformatics                                    | 4   |         |        |       |       |      | Prereq: Programming experience and statistics, or consent of instructor    |
| IT 400 eCommerce  | 3   |         |        |       |       |      | Prereq: IT 280 and 420   |
| IT 401 Web Intelligence   | 3   |         |        |       |       |      | Prereq: IT 402   |
| IT 402 Advanced IT Programming  | 3   |         |        |       |       |      | Prereq: IT 280   |

| Electives, cont.                                      | Un. | Instit. | Course | Units | Grade | Term | Prerequisites, GE & Comments                                |
|---|-----|---------|--------|-------|-------|------|---|
| IT 424 Computer System Security for IT                | 3   |         |        |       |       |      | Prereq: IT 429  |
| IT 464 Computer Graphics for IT                       | 3   |         |        |       |       |      | Prereq: COMP 151 and MATH 301                               |
| IT 469 Artificial Intelligence/Neural Networks for IT | 3   |         |        |       |       |      | Prereq: COMP 151 and MATH 301                               |
| IT 490 Special Topics for IT                          | 3   |         |        |       |       |      | Prereq: Senior standing                                     |
| MATH 137 Strategies and Game Design                   | 3   |         |        |       |       |      | Prereq: A passing score on the ELM; GE: B3                  |
| MATH 330 Mathematics and Fine Arts                    | 3   |         |        |       |       |      | Prereq: A passing score on the ELM or MATH 95; GE: B3, INTD |
| MATH 437 Mathematics for Game Development             | 3   |         |        |       |       |      | Prereq: MATH 137 or 301; GE: B3, INTD                       |
| <b>Capstone (4 units)</b>                             |     |         |        |       |       |      |   |
| MGT 471 Project Management                            | 3   |         |        |       |       |      | Prereq: MGT 307   |
| IT 499 BSIT Capstone Project                          | 1   |         |        |       |       |      | Prereq: MGT 471 and senior standing                         |

### Additional University Graduation Requirements

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

Course 1 (in major) \_\_\_\_\_ Course 2 (in major) \_\_\_\_\_ Course 3 \_\_\_\_\_  
 (choose COMP 337, 345, 447, 449; MATH 330, or 437) (outside major)

**American Institutions Requirements:** US History \_\_\_\_\_ State and Local Gov't \_\_\_\_\_  
 (choose HIST 270, 271, 272, 275 or 350) (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 \_\_\_\_\_

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

Advisor \_\_\_\_\_ Date Completed: \_\_\_\_\_

Advisor Comments: \_\_\_\_\_

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