



Bachelor of Science INFORMATION TECHNOLOGY

(*See Lower Division Requirements prior to admission to this program)

Advisement Form 2009-2010

Name _____ ID _____

	Un.	Instit.	Course	Units	Grade	Term	Prerequisites, GE & Comments
Core Courses (25 units)							
COMP 151 Data Structures and Program Design	4						Prereq: COMP 150
COMP 262 Computer Organization and Architecture	3						Prereq: COMP 151 & 162
COMP 362 Operating Systems	3						Prereq: COMP 262
IT 280 Web Programming	3						Prereq: COMP 151 & MATH 300
IT 420 Database Theory and Design for IT	3						Prereq: MATH 300
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
Mathematics and Science Requirements (7 units)							
MATH 301 Discrete Mathematics for IT	3						<i>Can substitute MATH 300 per blanket sub</i>
Lab Science II (PHYS, BIOL or CHEM)	4						GE: B1 or B2 depending on science chosen
Electives (15 units) Select 15 units from courses listed below:							
NOTE: Nine units of the 15 units must be taken in IT courses							
ART 324 Communication Design Technology: Web Design	3						Prereq: ART 204 & 205; Repeatable
ART 326 Digital Media Art: 3D Computer Animation	3						Prereq: ART 206 & 312 or consent of instructor; Repeatable
COMP 232 Programming Languages	3						Prereq: COMP 151 & 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 & 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						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 & 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 & MATH 300
IT 469 Artificial Intelligence/Neural Networks for IT	3						Prereq: COMP 151 & MATH 300
IT 490 Special Topics for IT	3						Prereq: Senior standing; Repeatable by topic
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 MATH 300 GE: B3, INTD
Capstone (4 units)							
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 _____	Course 2 _____	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)
<i>Students must receive a grade of C or better in the Language and Multicultural Requirements</i>		
Language Requirement: GE C3a _____		
(one semester of college level language)		
Multicultural Requirement: GE C3b _____		
<u>Minimum total units to graduate: 120 of which 40 must be upper division. Please see catalog for a complete list of graduation requirements.</u>		
Advisor _____	Date Completed: _____	
Advisor Comments: _____		

*Lower Division Requirements

Students entering this program are expected to have completed an associate's degree (or equivalent) in a technology area, including:

1. Statistics
2. One semester of a Laboratory science (Physics, Chemistry, or Biology).
3. First course in a computer programming language such as C, Java or C++.
4. First course in Computer Architecture and Assembly Language.
5. CSU GE Certification or courses fulfilling the CSUCI lower division general education requirements.
6. A minimum of 10 units of lower division coursework in a technology area (computer technology, electronics technology, manufacturing technology, engineering, computer science, etc.).