

CSUCI INFORMATION TECHNOLOGY B.S. DEGREE CHART

Lower Division Coursework (CSUCI or Community College)

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

1. Elementary Statistics
2. Semester I of Laboratory Science (Physics, Chemistry, or Biology).
3. First course in Programming with High-Level Language (C, C++, Java, etc.).
4. First course in Computer Architecture and Assembly Language.
5. CSU GE Certification or courses fulfilling the CI 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.).

Total 60 Lower Division Units

C- or better grade required in all major courses.

Core Courses

COMP 151	Data Structures and Program Design
COMP 262	Computer Organization and Architecture
COMP 362	Operating Systems
COMP 420	Database Theory and Design
IT 280	Web Programming
IT 429	Computer Networks for IT
MIS 310	Management Information Systems
MGT 307	Management of Organizations

Total 26 Units

Upper Division Coursework (CSUCI)

Mathematics and Science Requirements	7
Core Courses	26
Upper Division Interdisciplinary GE	9
Upper Division Electives	15
Capstone	4

Total 61 Upper Division Units

Upper Division Interdisciplinary GE

Total 7 Units

Mathematics and Science Requirements

MATH 301 Discrete Mathematics for IT
Lab Science II (Physics, Chemistry or Biology)

Total 7 Units

Technical Electives

ART 324	Communication Design Technology: Web Design
ART 326	Digital Media Art: 3D Computer Animation
COMP 232	Programming Languages
COMP 337	Survey of Computer Gaming
COMP 345	Digital Image Processing (MATH/PHYS)
COMP 350	Introduction to Software Engineering
COMP 425	Computer Game Programming
COMP 447	Societal Issues in Computing
COMP 449	Human Computer Interaction (PSY)
COMP 452	Computational Bioinformatics (MATH)
IT 400	e-Commerce
IT 401	Web Intelligence
IT 402	Advanced IT Programming
IT 424	Computer System Security for IT
IT 464	Computer Graphics for IT
IT 469	Artificial Intelligence/Neural Networks for IT
IT 490	Special Topics for IT
MATH 137	Strategies and Game Design
MATH 330	Mathematics and Fine Arts
MATH 437	Mathematics for Game Programming

Total 15 Units

Capstone

MGT 471	Project Management
IT 499	BSIT Capstone Project

Total 4 Units