

## COMPUTER SCIENCE ELECTIVES:

9 credits chosen from CS and CE upper division courses that are not in the CS core (CET and CTI courses are excluded, but students can take ENG 4040 and ISM 4133 for CS elective credit).

At least one elective must be one of these second programming language/advanced content courses

COP 4703	Applied Database Systems
COP 4593	Component Programming with .NET
CAP 4630	Intro to Artificial Intelligence
COP 4020	Programming Languages

## Suggested Groups of Concentration:

### Information Technology

CNT 4104	Intro to Data Communications
CNT 4403	Intro to Data and Network Security
COP 4814	Web Services
COP 4703	Applied Database Systems
COP 4593	Component Programming with .NET
CAP 4770	Intro to Data Mining and Mach Intelligence
COP 4854	Cutting Edge Web Tech

### Applications

CAP 4034	Computer Animation
CAP 4750	Computer Graphics Methods
CAP 4028	Intro to Game Programming
COP 4064	Graphical Application Development

### Software Engineering

CEN 4910	SW Engineering Project
ISM 4133	Adv. Systems Analysis & Design
COP 4331	Object-Oriented Design & Programming

### System Performance

MAP 4260	Intro to Queuing Theory ‡
CEN 4400	Intro to Computer System Perform

### System Programming

COP 4604	UNIX System Programming
COP 4020	Programming Languages

### Computer Architecture

CDA 4170/4204	CAD-Based Computer Design †
CDA 4210	Intro to VLSI
CDA 4630	Intro to Embedded System Design

† Cannot use same course as for core

‡ Cannot be used as both additional math & elective

## OTHER REQUIREMENTS:

### 4 year & Transfer students @ :

At least 120 credits  
At least 45 credits at a senior institution  
Last 30 upper division credits from FAU  
Foreign Language: 2nd semester course (any language)

### Second Degree Students @ :

At least 30 new FAU credits  
At least 25 credits upper division CS and CE courses at FAU  
Foreign Language not required

### Course Requirements for admission to MSCS program

\* required courses

\* prerequisites for required course

@ Grade of C or better required

# Bachelor of Science in Computer Science Curriculum

