FLORIDA ATLANTIC UNIVERSITY
Bachelor of Science in **Computer Science** Curriculum 2004-2005

Computer Science Electives (any 3)

*Internet Technology

CDA 4500	Intro to Data Communications
COP 4331	Object-Oriented Design & Prog ℘
COP 4020	Programming Languages ℘
COP 4703	Applied Database Systems ℘

* Applications

CAP 4630	Intro to Artificial Intelligence ℘
COP 4311	Logic Programming ℘
CAP 4750	Computer Graphics Methods

*Software Engineering

CEN 4910	SW Engineering Project
ISM 4133	Adv. Systems Analysis & Design

* System Performance

MAP 4260	Intro to Queueing Theory ‡
COP 4301	Modeling & Simulation of Systems
CEN 4410	Intro to Computer System Performance

* System Programming

COP 4020	Programming Languages ℘
CDA 4500	Introduction to Data Communications
COP 4604	UNIX System Programming
COP 4620	Computer Language Translation

* Computer Architecture

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

* Other

EGN 4040	Inventive Problem-Solving

† Cannot use same course as for core
‡ Cannot be used as both additional math & elective
℘ One elective must use a language other than C/C++

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
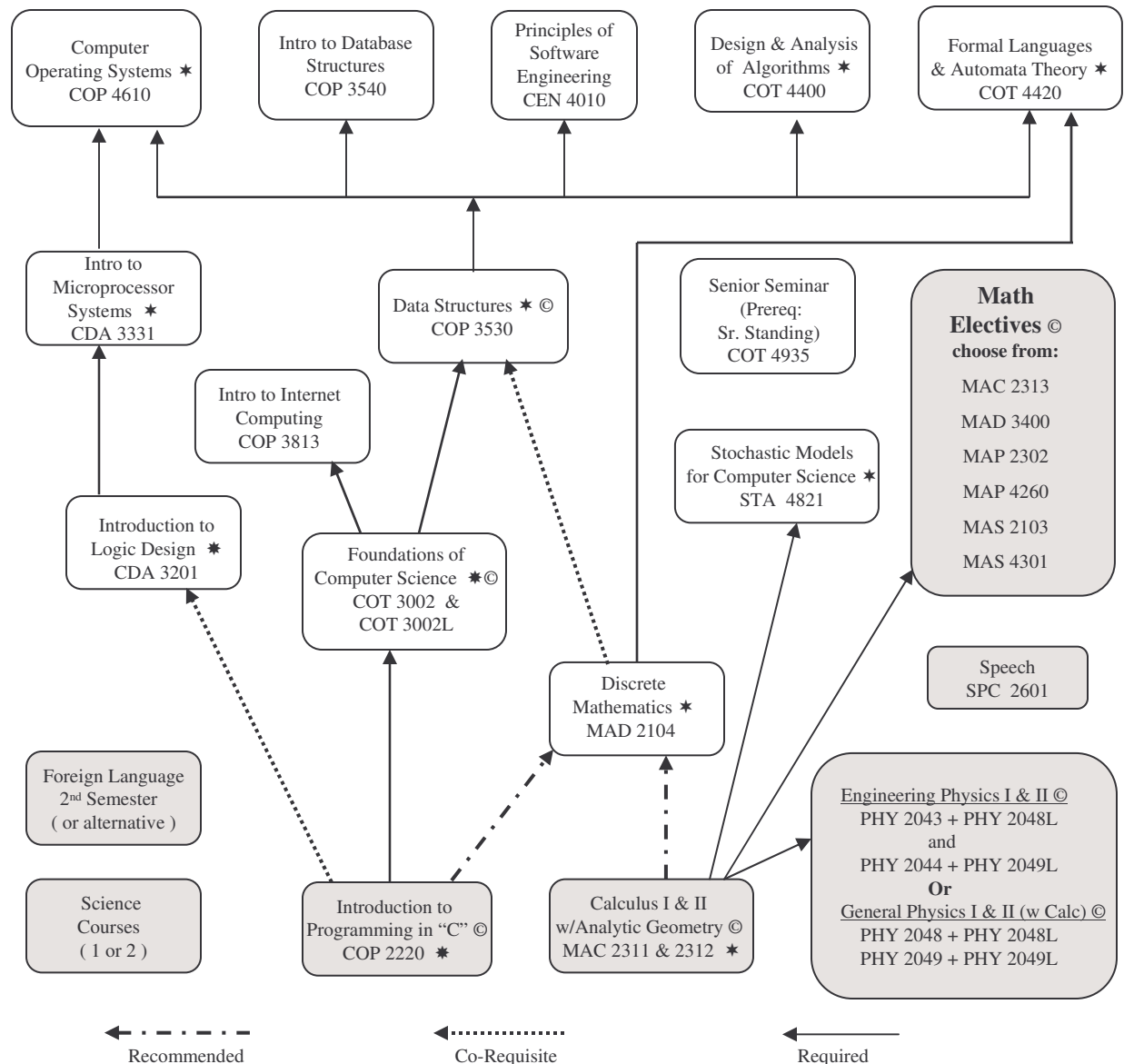Foreign Language: 2nd semester course (any language)

Second Degree Students © :
At least 30 new FAU credits
At least 25 credits upper division CSE 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

Computer Operating Systems ✱ — COP 4610

Intro to Database Structures — COP 3540

Principles of Software Engineering — CEN 4010

Design & Analysis of Algorithms ✱ — COT 4400

Formal Languages & Automata Theory ✱ — COT 4420

Intro to Microprocessor Systems ✱ — CDA 3331

Data Structures ✱ © — COP 3530

Senior Seminar (Prereq: Sr. Standing) — COT 4935

Math Electives ©
choose from:
MAC 2313
MAD 3400
MAP 2302
MAP 4260
MAS 2103
MAS 4301

Intro to Internet Computing — COP 3813

Stochastic Models for Computer Science ✱ — STA 4821

Introduction to Logic Design ✱ — CDA 3201

Foundations of Computer Science ✱© — COT 3002 & COT 3002L

Discrete Mathematics ✱ — MAD 2104

Speech — SPC 2601

Foreign Language 2nd Semester (or alternative)

Science Courses (1 or 2)

Introduction to Programming in "C" © — COP 2220 ✱

Calculus I & II w/Analytic Geometry © — MAC 2311 & 2312 ✱

Engineering Physics I & II ©
PHY 2043 + PHY 2048L
and
PHY 2044 + PHY 2049L
Or
General Physics I & II (w Calc) ©
PHY 2048 + PHY 2048L
PHY 2049 + PHY 2049L

Recommended ◄— — —
Co-Requisite ◄·······
Required ◄———

NOTE: shaded courses are department "prerequisites" - often taken as part of a student's AA degree.

Revised 7/19/04