Spring blue

Bachelor of Science in Computing and Information Sciences
COMPUTER SCIENCE TRACK
Spring 2013 Schedule -- ver.0: 10/20/12

- Arrows indicate prerequisite course(s)
- All courses are 3 credit hours unless otherwise indicated
- Pattern of typical offering: F=Fall, Sp=Spring (subject to change)

Prerequisites & lower-level Foundation - (8) (30 cr. hrs.)

MWF 1:00-1:50 Littleton (10016)
TR 12:15-1:30 Asaithambi (10017)
TR 6:00-7:15 Leas (10018)

COP 2220 F, Sp **Computer Science I**

MAC1147 Precalc or (MAC1140 and MAC1114)

MAC 2311 Calculus I (4)

PHY 2048/2048L Univ Physics I with Lab (5)

MAC 2312 Calculus II (4)

PHY 2049/2049L Univ Physics II with Lab (5)

SPC Speech or Public Speaking

Science for science major

Additional sciences: link to more info

Science for science major

MAC 2313 Calc III

Requirements - (14) (48 cr. hrs.)

COT 3100 F, Sp **Computational Structures**

prereq or coreq

TR 4:30-5:45 Klostermeyer (10114)
TR 6:00-7:15 Balcar (13023)

Contextual courses:

STA 4321 Probability & Statistics (4)

MAS 3105 Linear Algebra (4)

F, Sp **COP 3503 Computer Science II**

TR 12:15-1:30 Martin (10019)

CDA 3101 F, Sp **Intro to Computer Hardware Org (4)**

MW 2:00-3:40 Schuller (10009)

F, Sp **COP 3530 Data Structures (4)**

TR 10:00-11:40 Martin (10020)

COT 3210 Sp **Computability & Automata**

TR 3:05-4:20 Klostermeyer (10115)

COP 3404 Sp (COP3601) **Intro to Systems Software (4)**

TR 12:00-1:40 Eggen (11944)

NOTE: Additional courses may be necessary to attain 120 hrs total, including 54 upper hrs, and any other university requirements, such as general education or foreign language. Check your degree evaluation.

Select one from (a) or (b):

(a) **CNT 4504** /5505 Sp (CDA 4503 /5505) **Cmptr Networks/ Distributed Proc**

TR 6:00-7:15 Ahuja (11105)

CIS 4253 F Legal & Ethical Issues in Cmptng

(New admits as of Fall 2006)

COP 4710 /5716 F Data Modeling

COP 4620 /5625 Sp **Constr of Lang Translators (4)**

TR 3:50-5:30 Eggen (10021)

COP4610 /5615 F Operating Systems

(b) **COP 4813** /5819 Sp **Internet Programming**

MW 3:00-4:15 Chuan (10113)

CEN4010 Sp CIS 4251 **Software Engineering**

MW 4:30-5:45 Roggio (12018)

***Exit Requirement* - Oral Communications requirement: - Evaluation of two spoken presentations in CS courses.**

Major Electives - (select 3 for 9-10 cr. hrs.)

Students in catalogs before 2006 need 4 major electives - check your program of study

COT 3210 Computability and Automata

COT 3100 Comp Structures

COP4710 Data Modeling

COP 3530 Data Structures

STA 4321 Prob and Stats

MAS 3105 Linear Algebra

COT 4400 /5405 F Analysis of Algorithms

COT 4560 /5561 F Applied Graph Theory

COP 4813 /5819 Sp **Internet Programming**

MW 3:00-4:15 Chuan (10113)

CAP 4630 /5605 F Intro to Artificial Intelligence

CNT 4504 /5505 Sp **Cmpt Netwrks/ Distrib Proc**

TR 6:00-7:15 Ahuja (11105)

CAP4831 Sp CAP5805 Discrete Sys Modeling & Sim

CAP 4710 /5715 Computer Graphics

COP 4710 /5716 Data Modeling

CAP 4770 /5771 Sp **Data Mining**

MW 7:30-8:45 Elfayoumy (12315)

COP 3530 & Statistics

CIS 4930 ST: Music Informatics & Computing

MW 6:00-7:15 Chuan (12322)

COP3530 Data Str & COT3100 Comp Str

CIS 4362 Computer Cryptography

TR 1:40-2:55 Klostermeyer (11103)

For ST: Special Topics -- see flyers for details.

Additional Elective Options:
Computer Science students can take up to two courses from one and only one IT concentration

Computer Networking

CIS 4100 Sys Perf & Eval

TR 4:30-5:45 Prodanoff (11782)

COP3530 Data Structures

COP4710

Security Administration

CIS 4360 Comp Security Admin

COP4640

MW 7:30-8:45 Al (11427)

Mobile

CNT 4514C Wireless Netwk/ Mobile-Cmpt (4)

TR 2:00-3:40 Prodanoff (12321)

CIS4366 Comp Forensics

F 4:30-7:15 Antal (11922)

CIS 4364 IS Intrusion Detection

MW 3:00-4:15 Al (11426)