Bachelor of Science in Computer and Information Sciences
INFORMATION TECHNOLOGY
2007 – 2008 (1st year: Fall 2006)

- Arrows indicate prerequisite course(s)
- All courses are 3 credit hours unless otherwise indicated

Exit Requirements:
- *Evaluation of two spoken presentations in CIS courses.*
- *54 upper level hours earned (may require 9.0 hrs of Upper level Free Electives).*
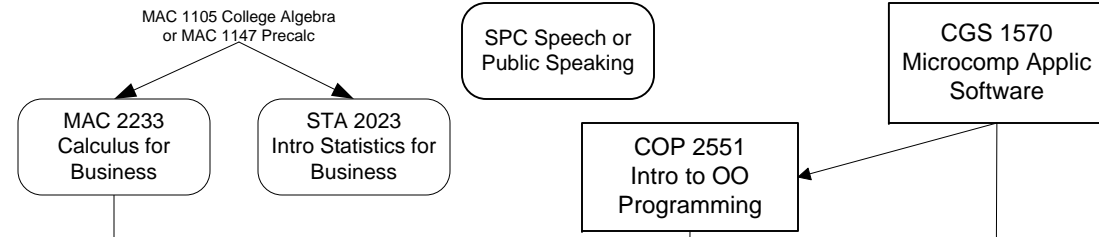- *120 total hours earned.*
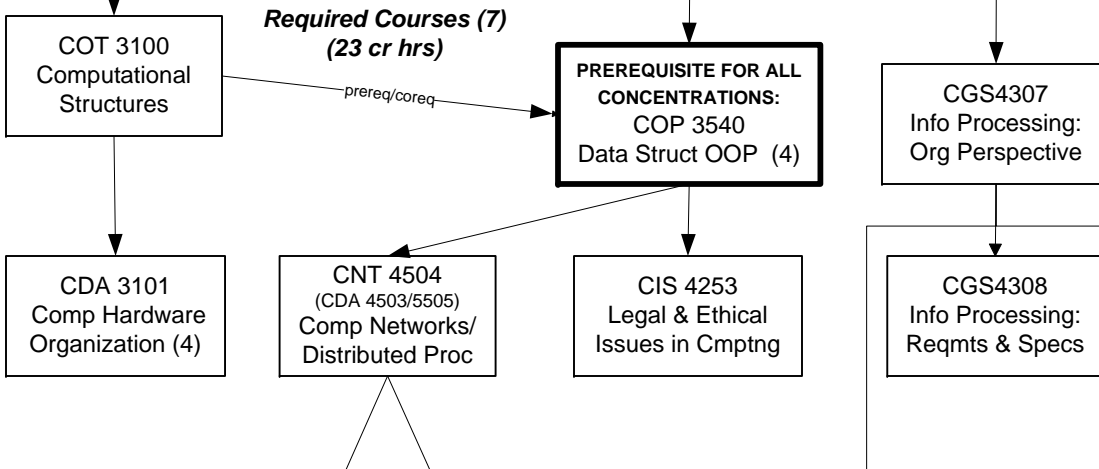

CGS 1100 Comp Apps - Business

COP 2120 Intro to COBOL Programming

(see SoC advisor for how these courses might fit into program)

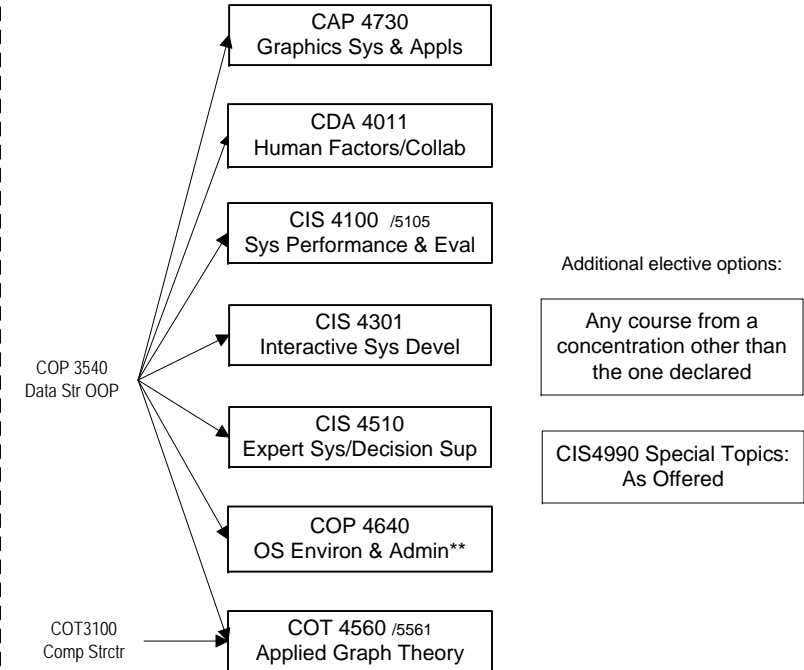
Prerequisites & lower-level Foundation (5 courses, 15 cr hrs)

MAC 1105 College Algebra or MAC 1147 Precalc

MAC 2233 Calculus for Business

STA 2023 Intro Statistics for Business

SPC Speech or Public Speaking

CGS 1570 Microcomp Applic Software

COP 2551 Intro to OO Programming

Required Courses (7) (23 cr hrs)

COT 3100 Computational Structures

— prereq/coreq →

PREREQUISITE FOR ALL CONCENTRATIONS:
COP 3540 Data Struct OOP (4)

CGS4307 Info Processing: Org Perspective

CDA 3101 Comp Hardware Organization (4)

CNT 4504 (CDA 4503/5505) Comp Networks/ Distributed Proc

CIS 4253 Legal & Ethical Issues in Cmptng

CGS4308 Info Processing: Reqmts & Specs

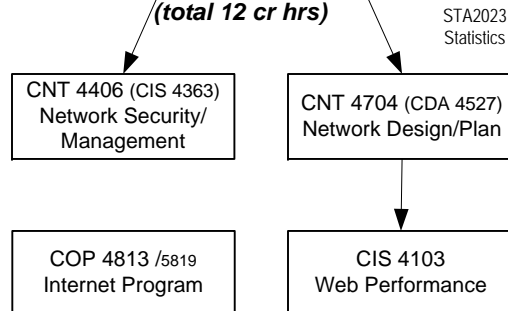## Technical Electives (minimum 10 cr hrs = 3-4 courses)
If in security concentration, select COP4640.

COP 3540 Data Str OOP

CAP 4730 Graphics Sys & Appls

CDA 4011 Human Factors/Collab

CIS 4100 /5105 Sys Performance & Eval

CIS 4301 Interactive Sys Devel

CIS 4510 Expert Sys/Decision Sup

COP 4640 OS Environ & Admin**

COT3100 Comp Strctr

COT 4560 /5561 Applied Graph Theory

Additional elective options:

Any course from a concentration other than the one declared
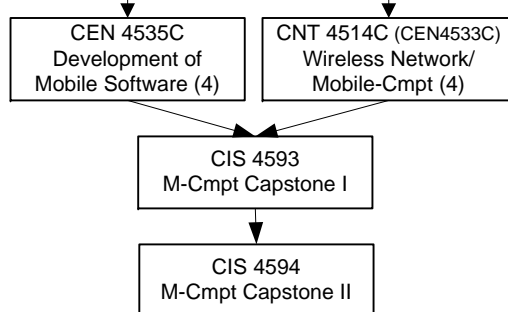
CIS4990 Special Topics: As Offered

Select one concentration.
COP3540 Data Structures Using OOP must be completed before taking any course in a concentration.

Concentration in Computer Networking
Four (4) required courses (total 12 cr hrs)

STA2023 Statistics

CNT 4406 (CIS 4363) Network Security/ Management

CNT 4704 (CDA 4527) Network Design/Plan

COP 4813 /5819 Internet Program

CIS 4103 Web Performance

Concentration in Mobile Computing
Four (4) required courses (total 14 cr hrs)

CEN 4535C Development of Mobile Software (4)

CNT 4514C (CEN4533C) Wireless Network/ Mobile-Cmpt (4)

CIS 4593 M-Cmpt Capstone I

CIS 4594 M-Cmpt Capstone II

Concentration in Computer Security Admin.
Three (3) required courses + one (1) security elective (total 12 cr hrs)

Required:

CIS 4360 Comp Security Admin

COP 4640 OS Envir & Admin

CIS 4615 Secure Software Dev

CIS 4365 Security Policies/ Disaster Prep

Select One Elective:

CIS 4362 Comp Cryptography

CIS 4366 Comp Forensics

CIS 4364 Info Sys Intrusn Detect