

**Requirements for a Major in Computer Science (BS) and (BLS)**  
**(Total Credits: 40)**  
**Effective Fall, 2003**

Required Courses

- CPSC 220 (4) Computer Science I
- CPSC 230 (4) Computer Science II: Data Structures
- CPSC 305 (4) Computer Systems Organization and Architecture
- CPSC 321 (3) Advanced Data Structures
- CPSC 390 (4) Software Engineering
- CPSC 326 (3) Theoretical Foundations of Computing
- CPSC 401 (3) Organization of Programming Languages
- CPSC 405 (3) Operating Systems
- MATH 300 or MATH 312 or MATH 351 (3)

Plus Nine (9) additional credits from

- Any 300 or 400 level CPSC electives
- Any 300 or 400 level MATH electives (excluding MATH 325)
- *6 of these 9 credits must be 400 level CPSC (excluding CPSC 499) and no more than 3 credits can be CPSC 499 Internship*

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Courses Offered Fall Only

CPSC 405

Courses Offered Spring Only

CPSC 401

Writing Intensive Courses

CPSC 321      CPSC 401  
CPSC 390

Speaking Intensive Courses

CPSC 390      CPSC 302

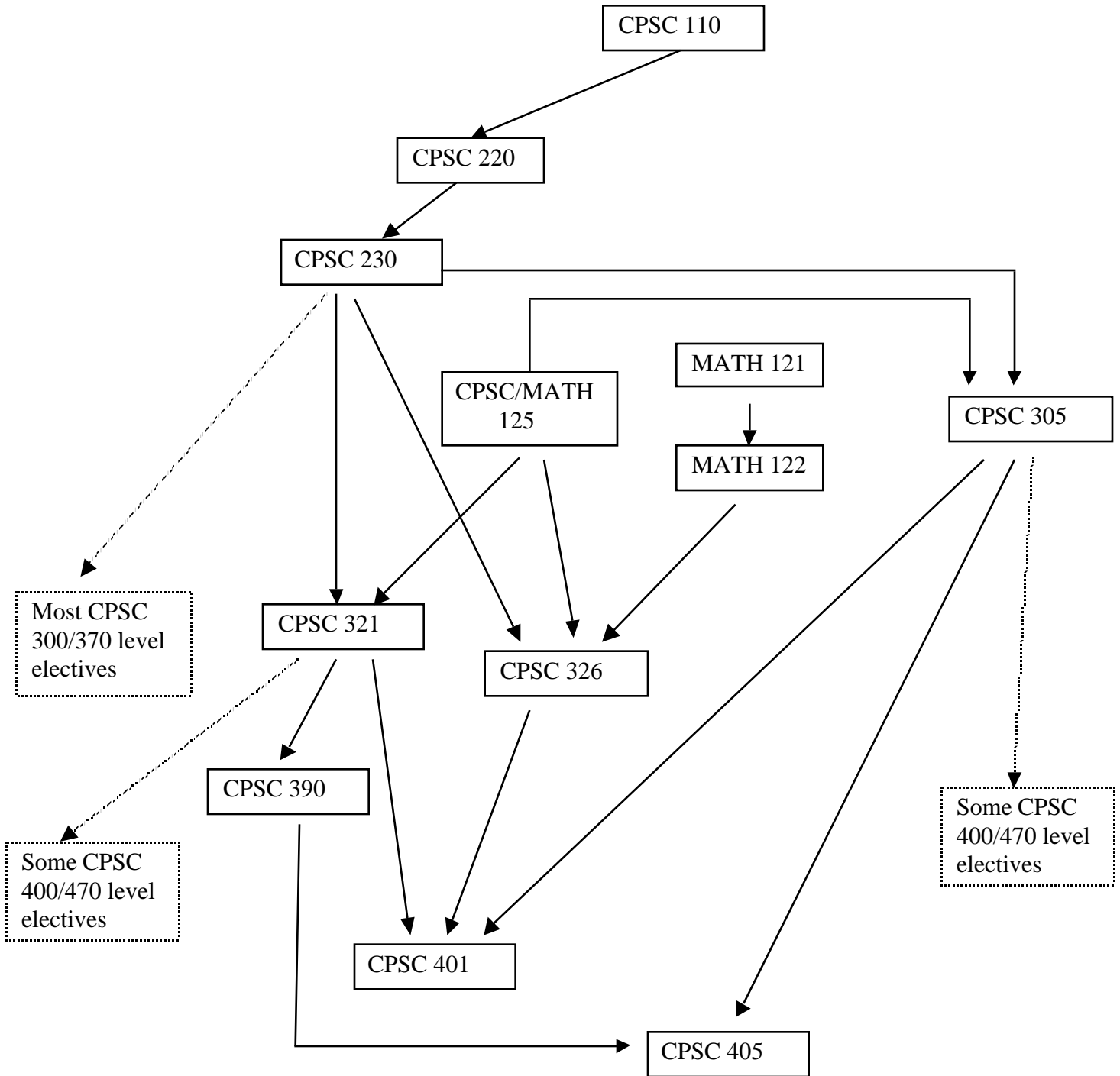
Recent and New Electives (offered on a rotating basis - check the prerequisites for each!)

- CPSC 302 - Computer Ethics
- CPSC 320 - Statistics for Computer Scientists
- CPSC 331 - Computer Graphics
- CPSC 370 - Computer Security
- CPSC 370 - Software Metrics
- CPSC 370 - Object Oriented Programming Using JAVA
- CPSC 410 - Database Principles and Design
- CPSC 414 - Network Principles and Applications
- CPSC 415 - Artificial Intelligence
- CPSC 420 - Simulation Techniques
- CPSC 425 - Parallel Processing
- CPSC 444 - 3-D Computer Graphics
- CPSC 470 - Using and Managing Internet Services

Possible Future Electives

- CPSC 370 Human Computer Interaction
- CPSC 470 E-Commerce

**CPSC Course Progression  
Effective, Fall 2003**



Note that MATH 300 (prerequisites CPSC/MATH 125 and MATH 122) OR MATH 312 (prerequisite MATH 122) OR MATH 351 (prerequisite MATH 312 or MATH 300 or CPSC 220) is also required.

Most CPSC electives (prerequisites determined by the instructor, and offered on a rotating basis) are listed on reverse side.

Good electives outside Computer Science: Technical Writing, 2-D Design, Intro. to Linguistics.

CPSC 104 is also a good elective (it does not count toward CPSC major).