## CPSC Upper Level Track

### Track 1: Algorithms and Theory

- [✓] CSCE 411: Analysis of Algorithms
- ( ) CSCE 433: Formal Languages and Automata
- ( ) CSCE 440: Quantum Algorithms
- ( ) CSCE 442: Scientific Programming

### Track 2: Systems

- ( ) CSCE 410: Operating Systems
- ( ) CSCE 456: Real-Time Computing
- ( ) CSCE 462: Microcomputer Systems
- ( ) CSCE 463: Networks & Distributed Prog.
- ( ) CSCE 464: Wireless and Mobile Systems
- ( ) CSCE 465: Computer & Network Security
- ( ) CSCE 469: Advanced Computer Architecture

### Track 3: Software

- ( ) CSCE 431: Software Engineering
- ( ) CSCE 432: Programming Language Design
- ( ) CSCE 434: Compiler Design
- ( ) CSCE 435: Parallel Computing
- ( ) CSCE 438: Distributed Objects Programming

### Track 4: Information and intelligent Systems

- ( ) CSCE 310: Database Systems
- ( ) CSCE 420: Artificial Intelligence
- ( ) CSCE 436: Computer-Human Interaction
- ( ) CSCE 441: Computer Graphics
- ( ) CSCE 443: Game Development
- ( ) CSCE 444: Structures of Interactive Information
- ( ) CSCE 445: Computers and New Media
- ( ) CSCE 452: Robotics and Spatial Intelligence
- ( ) CSCE 470: Information Storage and Retrieval

### Notes:
- Students must take CSCE 411 and six additional courses from the list above.
- At least one course from each track must be taken.
- At least three courses from one track (of the student’s choosing) must be taken.
- The seventh course can be from any track.
- Options for the seventh course include CSCE 491 (independent research) or co-op/EPICS credits (co-op: ENGR 385; EPICS: ENGR 270, or 470). If co-op/EPICS credits are used exactly 3 credits are required. Fewer than 3 cannot be used and excess credits above 3 cannot be used.
- The required course CSCE 411 (Analysis of Algorithms) counts as one of the courses from the Algorithms and Theory track.
- Prerequisites will still prevail for all courses. Consult the undergraduate catalog for details.
- Approved special topics course (CSCE 489) and graduate courses may be used to fulfill these requirements; each such course will be classified with respect to the tracks; see advisor.
- *This course number is not yet finalized and may change. See the advising office.
- **CSCE 410 taken before Spring 2009 will not fill this requirement.
- #This course is not being taught on a regular basis.