# 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 421** Computer Architecture
- ( ) **CSCE 456** Real-Time Computing
- ( ) **CSCE 462** Microcomputer Systems
- ( ) **CSCE 463** Networks & Distributed Prog.
- ( ) **CSCE 469** Advanced Computer Architecture

## Track 3: Software

- ( ) **CSCE 431** Software Engineering
- ( ) **CSCE 432** Programming Language Design
- ( ) **CSCE 434** Compiler Design
- ( ) **CSCE 437** Engineering Software Products
- ( ) **CSCE 438** Distributed Objects Programming

## Track 4: Information and intelligent Systems

- ( ) **CSCE 409** Database Systems
- ( ) **CSCE 420** Artificial Intelligence
- ( ) **CSCE 436** Computer-Human Interaction
- ( ) **CSCE 441** Computer Graphics
- ( ) **CSCE 444** Structures of Interactive Information
- ( ) **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.
- 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.
- **CSCE 410 taken before Spring 2009 will not fill this requirement.** See the advising office first.
- **This course number is not yet finalized and may change.** See the advising office.