

CPSC Upper Level Track

Track 1: Algorithms and Theory

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|-------------------------------------|----------|-------------------------------|
| <input checked="" type="checkbox"/> | CPSC 411 | Analysis of Algorithms |
| <input type="checkbox"/> | CPSC 433 | Formal Languages and Automata |
| <input type="checkbox"/> | CPSC 440 | Quantum algorithms |
| <input type="checkbox"/> | CPSC 442 | Scientific Programming |

Track 2: Systems

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|--------------------------|------------|--------------------------------|
| <input type="checkbox"/> | CPSC 410** | Operating Systems |
| <input type="checkbox"/> | CPSC 421* | Computer Architecture |
| <input type="checkbox"/> | CPSC 456 | Real-Time Computing |
| <input type="checkbox"/> | CPSC 462 | Microcomputer Systems |
| <input type="checkbox"/> | CPSC 463 | Networks & Distributed Prog. |
| <input type="checkbox"/> | CPSC 469 | Advanced Computer Architecture |

Track 3: Software

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|--------------------------|-----------|---------------------------------|
| <input type="checkbox"/> | CPSC 431 | Software Engineering |
| <input type="checkbox"/> | CPSC 432* | Programming Language Design |
| <input type="checkbox"/> | CPSC 434 | Compiler Design |
| <input type="checkbox"/> | CPSC 437 | Engineering Software Products |
| <input type="checkbox"/> | CPSC 438 | Distributed Objects Programming |

Track 4: Information and intelligent Systems

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|--------------------------|-----------|---------------------------------------|
| <input type="checkbox"/> | CPSC 409* | Database Systems |
| <input type="checkbox"/> | CPSC 420 | Artificial Intelligence |
| <input type="checkbox"/> | CPSC 436 | Computer-Human Interaction |
| <input type="checkbox"/> | CPSC 441 | Computer Graphics |
| <input type="checkbox"/> | CPSC 444 | Structures of Interactive Information |
| <input type="checkbox"/> | CPSC 452 | Robotics and Spatial Intelligence |
| <input type="checkbox"/> | CPSC 470 | Information Storage and Retrieval |

Notes:

- Students must take CPSC 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, CPSC 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 (CPSC 489) and graduate courses may be used to fulfill these requirements; each such course will be classified with respect to the tracks; see advisor.
- **CPSC 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.