

Table 7

**Courses Offered to Graduate Students in the Past Three Years  
School of Computer Science, Carleton University**

| Course   | Title                          | 2010-11   | 2011-12    | 2012-13   | Instructor(1)           | Sessions |
|----------|--------------------------------|-----------|------------|-----------|-------------------------|----------|
| COMP2805 | Intro Theory of Computation    |           | 3G(2)/184U |           | Michiel Smid            | 11       |
| COMP3004 | Object-Oriented Software Engin |           |            | 1G/56U    | Christine A. Laurendeau | 12       |
| COMP3005 | Database Management Systems    | 1G/92U    | 1G/51U     |           | Leopoldo Bertossi       | 11       |
|          |                                |           |            |           | Louis D. Nel            | 10       |
| COMP3007 | Programming Paradigms          |           | 2G/68U     |           | Franz Oppacher          | 11       |
| COMP3203 | Principles of Computer Network |           |            | 2G/43U    | Evangelos Kranakis      | 12       |
| COMP3804 | Design & Analy of Algorithms I | 1G/68U    |            | 2G(1)/42U | Jorg-Rudiger Sack       | 12       |
|          |                                |           |            |           | Michiel Smid            | 10       |
| COMP4003 | Transaction Processing Systems | 1G/13U    |            | 1G/16U    | Leopoldo Bertossi       | 10       |
|          |                                |           |            |           | Mengchi Liu             | 12       |
| COMP4009 | Paralel Prog Cluster Core Proc |           |            | 1G/39U    | Frank Dehne             | 12       |
| COMP4106 | Artificial Intelligence        |           |            | 1G/47U    | John Oommen             | 12       |
| COMP4804 | Design & Analysis of Algor II  | 4G/27U    |            |           | Prosenjit Bose          | 10       |
| COMP4900 | Evolving Information Networks  | 3G(2)/3U  |            |           | Leopoldo Bertossi       | 10       |
| COMP4901 | Directed Studies               |           |            | 1G/2U     | Not Available           | 12       |
| COMP4905 | Honours Project                |           |            | 2G/72U    | Mark A. Lanthier        | 12       |
| COMP5001 | Foundations of Program & Lang. | 10G(6)/0U |            |           | Douglas J. Howe         | 10       |
| COMP5002 | Swarm Intelligence             | 7G(3)/3U  |            |           | Anthony White           | 10       |
| COMP5003 | Principles of Distributed Comp | 6G(4)/0U  | 8G(5)/0U   | 6G/0U     | Not Available           | 10,11,12 |
| COMP5004 | Fault Tolerance                | 2G/0U     |            | 2G(1)/0U  | Not Available           | 10,12    |
| COMP5005 | Learning Syst for Random Env   | 9G(5)/2U  |            |           | John Oommen             | 10       |
| COMP5104 | Computational Geometry         | 11G(8)/1U | 12G(9)/0U  |           | Michiel Smid            | 10,11    |
| COMP5100 | Topics in Artificial Intellig. |           | 1G/0U      |           | Not Available           | 11       |
| COMP5101 | Distributed Databases          |           |            | 3G(2)/0U  | Not Available           | 12       |
| COMP5102 | Distributed Operating Systems  | 7G(3)/0U  |            |           | Anil Somayaji           | 10       |
| COMP5103 | Wireless Ad Hoc Networking     | 1G/0U     | 3G(2)/0U   |           | Not Available           | 10,11    |
| COMP5104 | Object-Oriented Systems        |           | 6G(5)/0U   | 7G(6)/0U  | Jean-Pierre Corriveau   | 11,12    |
| COMP5107 | Stat & Syntactic Pattern Recog |           |            | 15G(8)/1U | John Oommen             | 12       |
| COMP5108 | Algorithms in Bioinformatics   | 6G(4)/1U  |            |           | Not Available           | 10       |
|          |                                |           |            |           | Evangelos Kranakis      | 10       |
| COMP5201 | Computer Animation             | 2G(1)/0U  |            | 4G(3)/0U  | Not Available           | 10,12    |
| COMP5202 | Advanced Computer Graphics     |           | 1G/0U      |           | Not Available           | 11       |
| COMP5204 | Computational Aspects of G.I.S |           | 2G(1)/0U   | 5G(3)/0U  | Jorg-Rudiger Sack       | 11,12    |
| COMP5205 | Virtual Environments           |           | 1G/0U      |           | Not Available           | 11       |
| COMP5206 | Evol. Comp. & Artificial Life  | 7G(3)/0U  |            | 4G(2)/2U  | Franz Oppacher          | 10,12    |
| COMP5207 | Software Engineering           | 14G(9)/0U | 10G(3)/0U  | 9G(6)/0U  | Not Available           | 10,11,12 |
| COMP5301 | Software Usability             | 7G(4)/0U  | 5G(4)/0U   |           | Not Available           | 10,11    |
| COMP5302 | Automated Verification & Valid | 2G/0U     |            |           | Not Available           | 10       |
| COMP5304 | Wireless Netwks & Mobile       | 16G(9)/0U | 3G/0U      | 6G(4)/2U  | Not Available           | 10,11    |
|          |                                |           |            |           | Evangelos Kranakis      | 10,12    |
| COMP5305 | Advanced Database Systems      | 10G(7)/0U | 4G(3)/0U   | 4G(3)/0U  | Mengchi Liu             | 10,11,12 |
| COMP5306 | Data Inegration                | 8G(3)/0U  |            | 2G(1)/0U  | Leopoldo Bertossi       | 10,12    |
| COMP5307 | Knowledge Representation       |           | 3G(1)/0U   |           | Leopoldo Bertossi       | 11       |
| COMP5309 | Digital Watermarking           |           | 1G/0U      |           | Not Available           | 11       |
| COMP5401 | Electronic Commerce Techno     |           | 5G(4)/0U   |           | Not Available           | 11       |
| COMP5402 | Protocols Mobile&Wireless Netw | 4G(3)/0U  |            |           | Michel Barbeau          | 10       |
| COMP5406 | Network Security & Cryptograph | 6G/0U     |            |           | Not Available           | 10       |

**Source:** Course Master Records - 2010 to 2012; Teaching Evaluation Records - 2010 to 2012

**Notes:** 1. 'Not Available' appears when an instructor name is not in the Teaching Evaluation Database.  
 2. Numbers in '( )' are the graduate student enrolments in the reported program, when less than the total graduate enrolment.  
 3. Excludes students officially withdrawn.

Office of Institutional Research & Planning: Jan. 24, 2014  
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|----------|--------------------------------|------------|------------|------------|--------------------|----------------------|
| COMP5407 | Authentication & Software Sec  | 8G(3)/1U   | 5G(2)/1U   |            | Paul Van Oorschot  | 10,11                |
| COMP5408 | Advanced Data Structures       | 6G(4)/0U   | 10G(7)/0U  | 11G(7)/1U  | Patrick R. Morin   | 10,11,12             |
| COMP5409 | Applied Computational Geometry | 5G(2)/0U   |            |            | Prosenjit Bose     | 10                   |
| COMP5501 | Software Quality Engineering   |            | 4G(3)/0U   | 4G/0U      | Not Available      | 11,12                |
| COMP5503 | Database Analysis & Design     | 5G(3)/0U   |            | 8G(4)/0U   | Not Available      | 10,12                |
| COMP5505 | Natural Language Processing    | 1G/0U      |            | 3G(2)/0U   | Not Available      | 10,12                |
| COMP5604 | Validation Meth Distri Sys     | 3G(2)/0U   |            |            | Not Available      | 10                   |
| COMP5703 | Algorithm Analysis & Design    | 5G/0U      | 7G(5)/0U   | 4G(1)/0U   | Not Available      | 10,11,12             |
|          |                                |            |            |            | Anil Maheshwari    | 10,11                |
| COMP5704 | Parallel Algor & Applic in Bio | 4G(2)/0U   |            | 10G(7)/0U  | Frank Dehne        | 10,12                |
| COMP5706 | Data Mining & Concept Learning | 2G(1)/0U   |            | 3G(2)/0U   | Not Available      | 10,12                |
| COMP5707 | Prin Formal Software Devel     | 4G/0U      | 3G(2)/0U   | 4G(3)/0U   | Not Available      | 10,11,12             |
| COMP5709 | Combinatorial Algorithms       |            | 1G/0U      |            | Not Available      | 11                   |
| COMP5801 | Topics in Machine Learning     | 6G(3)/0U   | 4G(3)/0U   | 6G/0U      | Not Available      | 10,11,12             |
| COMP5805 | Appli. of Combinatorial Optim  |            |            | 6G(5)/0U   | Not Available      | 12                   |
| COMP5900 | Computational Complexity       | 23G(15)/5U | 33G(21)/3U | 24G(13)/0U | Anil Somayaji      | 10,11,12             |
|          |                                |            |            |            | David R. Mould     | 12                   |
|          |                                |            |            |            | Doron Nussbaum     | 10,11,12             |
|          |                                |            |            |            | Dwight Deugo       | 10                   |
|          |                                |            |            |            | Evangelos Kranakis | 11                   |
|          |                                |            |            |            | Robert Biddle      | 10,11,12             |
|          |                                |            |            |            | Sonia A. Chiasson  | 11,12                |
| COMP5901 | Directed Studies (M.C.S.)      | 2G(1)/0U   | 2G/0U      | 3G(2)/0U   | Not Available      | 10s,11,11s,12,12s    |
| COMP5903 | Intensive Grad Project (M.C.S) | 6G/0U      | 6G(5)/0U   | 13G(11)/0U | Not Available      | 10,10s,11,11s,12,12s |
| COMP5904 | Master's Seminar               | 41G(38)/0U | 35G/0U     | 26G(25)/0U | Not Available      | 10,11,12             |
| COMP5905 | M.C.S. Thesis                  | 98G(92)/0U | 87G(85)/0U | 63G(61)/0U | Not Available      | 10,10s,11,11s,12,12s |
| COMP5906 | Master's Co-op Workterm I      |            | 9G/0U      | 1G/0U      | Irwin Reichstein   | 11,11s,12s           |
| COMP5907 | Master's Co-op Workterm 2      |            | 4G(3)/0U   | 3G/0U      | Irwin Reichstein   | 11,12s               |
| COMP5913 | Master's Co-op Workterm        |            |            | 1G/0U      | Irwin Reichstein   | 12                   |
| COMP6605 | Adv. Topics in Comp. Systems   | 4G/0U      | 1G/0U      |            | Not Available      | 10,11                |

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