# York University
Department of Computer Science & Engineering
Revised September 5, 2012

## Text Book Listing

### Fall 2012

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Required Text</th>
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</thead>
</table>
| MATH 1090 3.0 | Introduction to Logic for Computer Science | Mathematical Logic by George Tourlakis  
ISBN: 9780470280744; Publisher: Wiley |
ISBN: 0073383090; Publisher: McGraw-Hill |
| CSE 1020 3.0 | Introduction to Computer Science I | Java By Abstraction: A Client-View Approach, 3rd Ed, by Hamzeh Roumani  
ISBN: 9780558819835; Publisher: Pearson Ed. |
| CSE 1030 3.0 | Introduction to Computer Science II | Absolute Java, 5th Ed, by Walter Savitch  
ISBN:978-0-13-283031-7; Publisher: Addison Wesley |
| CSE 1520 3.0 | Computer Use: Fundamentals | Computer Science Illuminated, 5th Ed, by Nell Dale and John Lewis  
ISBN:9780763757564; Publisher: Jones and Bartlett. |
| CSE 1710 3.0 | Programming for Digital Media | Java By Abstraction: A Client-View Approach, 3rd Ed, By Hamzeh Roumani  
ISBN: 9780558819835; Publisher: Pearson Ed. |
ISBN: 9781133187790; Publisher: Cengage Learning (Nelson Canada) |
ISBN: 9780763757564; Publisher: Jones and Bartlett |
| CSE 2021 4.0 | Computer Organization | Computer Organization and Design, 4th Ed, by Hennessy & Patterson  
ISBN: 9780123747501; Publisher: Elsevier (Morgan Kaufmann) |
| CSE 2031 3.0 | Software Tools | The C Programming Language, 2nd Ed, by Brian Kernighan and Dennis Ritchie  
ISBN: 0131103628; Publisher: Prentice Hall |
|             |                                     | Practical Programming in the UNIX Environment by Wolfgang Sturzlinger  
CSE 2041 3.0  Net-Centric Computing
ISBN: 0131856030; Publisher: Pearson-Prentice Hall

CSE 2501 3.0  Fortran and Scientific Computing
Required Text: Fortran and Scientific Computing, CK F12 by Mike McNamee
Publisher: York University

CSE 3000 3.0  Professional Practice in Computing
Required Text: Ethics in Information Technology, 4th Ed. By G. Reynolds
ISBN: 9781111534127; Publisher: Course Technology (Nelson Canada)

CSE 3101 3.0  Design and Analysis of Algorithms
Required Text: How to Think about Algorithms by Jeff Edmonds
ISBN: 9780521614108; Publisher: Cambridge UP

CSE 3121 3.0  Numerical Methods I
Required Text: Numerical Methods I, CK F12 by Mike McNamee
Publisher: York University

CSE 3201 3.0  Digital Logic Design
ISBN: 0077211642; Publisher: McGraw

CSE 3213 3.0  Communication Networks
Required Text: Communication Networks, 2nd Ed. by Alberto Leon-Garcia and Indra Widjaja
ISBN: 9780072463521; Publisher: McGraw Hill

CSE 3221 3.0  Operating System Fundamentals
ISBN: 0470128720: Publisher: Wiley

CSE 3301 3.0  Programming Language Fundamentals
Required Text: Concepts of Programming Languages, 10th Ed. By Robert W. Sebesta
ISBN: 0131395319; Publisher: Addison Wesley

CSE 3311 3.0  Software Design
Required Text: Object-Oriented Software Construction by Bertrand Meyer
ISBN: 0136291554; Publisher: Prentice Hall

Optional Text: Object-Oriented Programming in Eiffel, 2nd Ed. By Pete Thomas and Ray Weedon
ISBN: 0201331314; Publisher: Addison Wesley

CSE 3401 3.0  Functional and Logic Programming
Required Text: Artificial Intelligence: A Modern Approach, 3rd Ed. By Stuart Russell and Peter Norvig
ISBN: 9780136042594; Publisher: Pearson-Prentice Hall

Required Text: Programming in Prolog, 5th Ed. By W.F.Clocksin and C.S. Mellish
ISBN: 9783540006787; Publisher: Springer-Verlag

CSE 3421 3.0  Introduction to Database Systems
Required Text: Database Management Systems, 3rd Ed. By Raghu Ramakrishnan and Johannes Gehrke
ISBN: 9780072465631; Publisher: McGraw-Hill

CSE 3431 3.0  Introduction to 3D Computer Graphics
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<tr>
<td>CSE 3451 3.0</td>
<td>Signals and Systems</td>
<td>Required Text: Continuous-Time and Discrete-Time Signals and Systems by M. Mandal and A. Asif ISBN: 9780521854559; Publisher: Cambridge University Press</td>
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<td>CSE 3461 3.0</td>
<td>User Interfaces</td>
<td>Optional Text: The Design of Everyday Things by Donald A. Norman ISBN: 0465067107; Publisher: Basic Books</td>
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<td>CSE 3481 3.0</td>
<td>Applied Cryptography</td>
<td>Optional Text: The Inmates Are Running the Asylum by Alan Cooper ISBN: 0672316498; Publisher: Sams Publishing (Pearson Ed)</td>
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<td>CSE 4080 3.0</td>
<td>Computer Science Project</td>
<td>Required Text: N/A</td>
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<td>CSE 4081 6.0</td>
<td>Intelligent Systems Project</td>
<td>Required Text: N/A</td>
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<tr>
<td>CSE 4082 6.0</td>
<td>Interactive Systems Project</td>
<td>Required Text: N/A</td>
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<td>CSE 4084 6.0</td>
<td>Communication Networks Project</td>
<td>Required Text: N/A</td>
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<td>CSE 4088 6.0</td>
<td>Computer Science Capstone Project</td>
<td>Required Text: N/A</td>
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<td>CSE 4090 6.0</td>
<td>Software Engineering Project</td>
<td>Required Text: N/A</td>
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| CSE 4404 3.0 | Machine Learning and Pattern Recognition         | Machine Learning by Kevin Murphy  
ISBN: 0262018020; Publisher: MIT Press                                                         |
| CSE 4412 3.0 | Data Mining                                      | Data Mining: Concepts and Techniques, 3rd Ed. By Han, Kamber and Pei  
ISBN: 9780123814791; Publisher: Elsevier (Morgan Kaufmann Publishers) |
| CSE 4422 3.0 | Computer Vision                                  | Computer Vision Algorithms and Applications by Richard Szeliski  
ISBN: 9781848829343; Publisher: Springer                                                        |
| CSE 4480 3.0 | Computer Security Project                        | N/A                                                                                             |
ISBN: 9780763759940; Publisher: Jones and Bartlett Publishers                                |
| GS/CSE 5323 3.0 | Computer Vision                               | Computer Vision Algorithms and Applications by Richard Szeliski  
ISBN: 9781848829343; Publisher: Springer                                                        |
| GS/CSE 5327 3.0 | Machine Learning and Pattern Recognition       | Machine Learning by Kevin Murphy  
ISBN: 0262018020; Publisher: MIT Press                                                         |
| GS/CSE 5910 3.0 | Software Foundations                            | Problem Solving with C++, 8th Ed. By Walter Savitch  
ISBN: 9780132162739; Publisher: Addison Wesley                                                  |
| GS/CSE 6118 3.0 | Combinatorial Optimization                      | Convex Optimization, 2004 Ed. By Stephen Boyd and Lieven Vandenberghe  
ISBN: 9780521833783; Publisher: Cambridge University Press  
ISBN: 9780691102870; Publisher: Princeton University Press  
Combinatorial Optimization: Algorithms and Complexity by Papadimitriou and Steiglitz  
ISBN: 0486402584; Publisher: Courier Dover, 1998                                                |
| GS/CSE 6390A 3.0 | Special Topics: Knowledge and Representation | Knowledge Representation and Reasoning by Ronald Brachman and Hector Levesque  
ISBN: 9781558609327; Publisher: Elsevier                                                        |