

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

Text Book Listing
Fall 2012

MATH 1090 3.0	Introduction to Logic for Computer Science
Required Text:	<u>Mathematical Logic</u> by George Tourlakis ISBN: 9780470280744; Publisher: Wiley
CSE 1019 3.0	Discrete Math for Computer Science
Required Text:	<u>Discrete Mathematics and Its Applications</u> , by Kenneth.H. Rosen ISBN: 0073383090; Publisher: McGraw-Hill
CSE 1020 3.0	Introduction to Computer Science I
Required Text:	<u>Java By Abstraction: A Client-View Approach, 3rd Ed.</u> by Hamzeh Roumani ISBN: 9780558819835; Publisher: Pearson Ed.
CSE 1030 3.0	Introduction to Computer Science II
Required Text:	<u>Absolute Java, 5th Ed.</u> by Walter Savitch ISBN:978-0-13-283031-7; Publisher: Addison Wesley
CSE 1520 3.0	Computer Use: Fundamentals
Required Text:	<u>Computer Science Illuminated, 5th Ed.</u> by Nell Dale and John Lewis ISBN:9780763757564; Publisher: Jones and Bartlett.
CSE 1710 3.0	Programming for Digital Media
Required Text:	<u>Java By Abstraction: A Client-View Approach, 3rd Ed.</u> By Hamzeh Roumani ISBN: 9780558819835; Publisher: Pearson Ed.
CSE 2001 3.0	Introduction to the Theory of Computation
Required Text:	<u>Introduction to the Theory of Computation, 3rd Ed.</u> by Michael Sipser ISBN: 9781133187790; Publisher: Cengage Learning (Nelson Canada)
CSE 2011 3.0	Fundamentals of Data Structures
Required Text:	<u>Data Structures and Algorithms Using Java, 5th Ed.</u> by William McAllister ISBN: 9780763757564; Publisher: Jones and Bartlett
CSE 2021 4.0	Computer Organization
Required Text:	<u>Computer Organization and Design, 4th Ed.</u> by Hennessy & Patterson ISBN: 9780123747501; Publisher: Elsevier (Morgan Kaufmann)
CSE 2031 3.0	Software Tools
Required Text:	<u>The C Programming Language, 2nd Ed.</u> by Brian Kernighan and Dennis Ritchie ISBN: 0131103628; Publisher: Prentice Hall
Required Text:	<u>Practical Programming in the UNIX Environment</u> by Wolfgang Sturzlinger ISBN 0536749965; Pearson Custom Publishing, 2003

CSE 2041 3.0	Net-Centric Computing
Required Text:	<u>Web Technologies: A Computer Science Perspective, 2006 Ed.</u> By Jeffrey C. Jackson ISBN: 0131856030; Publisher: Pearson-Prentice Hall
CSE 2501 3.0	Fortran and Scientific Computing
Required Text:	<u>Fortran and Scientific Computing, CK F12</u> by Mike McNamee Publisher: York University
CSE 3000 3.0	Professional Practice in Computing
Required Text:	<u>Ethics in Information Technology, 4th Ed.</u> By G. Reynolds ISBN: 9781111534127; Publisher: Course Technology (Nelson Canada)
CSE 3101 3.0	Design and Analysis of Algorithms
Required Text:	<u>How to Think about Algorithms</u> by Jeff Edmonds ISBN: 9780521614108; Publisher: Cambridge UP
CSE 3121 3.0	Numerical Methods I
Required Text:	<u>Numerical Methods I, CK F12</u> by Mike McNamee Publisher: York University
CSE 3201 3.0	Digital Logic Design
Required Text:	<u>Fundamentals of Digital Logic with Verilog Design, 2nd Ed.</u> By Brown ISBN: 0077211642; Publisher: McGraw
CSE 3213 3.0	Communication Networks
Required Text:	<u>Communication Networks, 2nd Ed.</u> by Alberto Leon-Garcia and Indra Widjaja ISBN: 9780072463521; Publisher: McGraw Hill
CSE 3221 3.0	Operating System Fundamentals
Required Text:	<u>Operating System Concepts, 8th Ed.</u> By A. Silberschatz, P. Galvin and G. Gagne ISBN: 0470128720; Publisher: Wiley
CSE 3301 3.0	Programming Language Fundamentals
Required Text:	<u>Concepts of Programming Languages, 10th Ed.</u> By Robert W. Sebesta ISBN: 0131395319; Publisher: Addison Wesley
CSE 3311 3.0	Software Design
Required Text:	<u>Object-Oriented Software Construction</u> by Bertrand Meyer ISBN: 0136291554; Publisher: Prentice Hall
Optional Text:	<u>Object-Oriented Programming in Eiffel, 2nd Ed.</u> By Pete Thomas and Ray Weedon ISBN: 0201331314; Publisher: Addison Wesley
CSE 3401 3.0	Functional and Logic Programming
Required Text:	<u>Artificial Intelligence: A Modern Approach, 3rd Ed.</u> By Stuart Russell and Peter Norvig ISBN: 9780136042594; Publisher: Pearson-Prentice Hall
Required Text:	<u>Programming in Prolog, 5th Ed.</u> By W.F.Clocksinn and C.S. Mellish ISBN: 9783540006787; Publisher: Springer-Verlag
CSE 3421 3.0	Introduction to Database Systems
Required Text:	<u>Database Management Systems, 3rd Ed.</u> By Raghu Ramakrishnan and Johannes Gehrke ISBN: 9780072465631; Publisher: McGraw-Hill
CSE 3431 3.0	Introduction to 3D Computer Graphics

Required Text: Interactive Computer Graphic: A Top-Down Approach with Shader-Based Open GL, 6th Ed. By Edward Angel and Dave Shreiner
ISBN: 0132545233; Publisher: Addison Wesley

CSE 3451 3.0 Signals and Systems

Required Text: Continuous-Time and Discrete-Time Signals and Systems by M. Mandal and A. Asif
ISBN: 9780521854559; Publisher: Cambridge University Press

CSE 3461 3.0 User Interfaces

Optional Text: The Design of Everyday Things by Donald A. Norman
ISBN: 0465067107; Publisher: Basic Books

Optional Text: The Inmates Are Running the Asylum by Alan Cooper
ISBN: 0672316498; Publisher: Sams Publishing (Pearson Ed)

CSE 3481 3.0 Applied Crptography

Required Text: Introduction to Cryptography with Coding Theory by Trappe and Washington
ISBN: 9780131862395; Publisher: Pearson Prentice-Hall

CSE 4080 3.0 Computer Science Project

Required Text: N/A

CSE 4081 6.0 Intelligent Systems Project

Required Text: N/A

CSE 4082 6.0 Interactive Systems Project

Required Text: N/A

CSE 4084 6.0 Communication Networks Project

Required Text: N/A

CSE 4088 6.0 Computer Science Capstone Project

Required Text: N/A

CSE 4090 6.0 Software Engineering Project

Required Text: N/A

CSE 4115 3.0 Computational Complexity

Required Text: Introduction to the Theory of Computation, 2nd Ed. By Michael Sipser
ISBN: 9781133187790; Publisher: Course Technology (Nelson Canada)

CSE 4201 3.0 Computer Architecture

Required Text: Computer Architecture Quantitative Approach, 5th Ed. By Hennessy and Patterson
ISBN: 9780521854559; Publisher: Elsevier (Morgan Kaufmann)

CSE 4214 3.0 Digital Communications

Required Text: Digital Communications: Fundamentals and Applications, 2nd Ed. By Bernard Sklar
ISBN: 9780130847881; Publisher: Prentice Hall

CSE 4404 3.0	Machine Learning and Pattern Recognition
Required Text:	<u>Machine Learning</u> by Kevin Murphy ISBN: 0262018020; Publisher: MIT Press
CSE 4412 3.0	Data Mining
Required Text:	<u>Data Mining: Concepts and Techniques, 3rd Ed.</u> By Han, Kamber and Pei ISBN: 9780123814791; Publisher: Elsevier (Morgan Kaufmann Publishers)
CSE 4422 3.0	Computer Vision
Required Text:	<u>Computer Vision Algorithms and Applications</u> by Richard Szeliski ISBN: 9781848829343; Publisher: Springer
CSE 4480 3.0	Computer Security Project
Required Text:	N/A
CSE 4482 3.0	Computer Security Management
Required Text:	<u>Computer Security – Protecting Digital Resources, 2010</u> by Robert C. Newman ISBN: 9780763759940; Publisher: Jones and Bartlett Publishers
GS/CSE 5323 3.0	Computer Vision
Required Text:	<u>Computer Vision Algorithms and Applications</u> by Richard Szeliski ISBN: 9781848829343; Publisher: Springer
GS/CSE 5327 3.0	Machine Learning and Pattern Recognition
Required Text:	<u>Machine Learning</u> by Kevin Murphy ISBN: 0262018020; Publisher: MIT Press
GS/CSE 5910 3.0	Software Foundations
Required Text:	<u>Problem Solving with C++, 8th Ed.</u> By Walter Savitch ISBN: 9780132162739; Publisher: Addison Wesley
GS/CSE 6118 3.0	Combinatorial Optimization
Optional Text:	<u>Convex Optimization, 2004 Ed.</u> By Stephen Boyd and Lieven Vandenberghe ISBN: 9780521833783; Publisher: Cambridge University Press
Optional Text:	<u>Optimization: Insights and Applications, 2005 Ed.</u> By Brinkhuis and Tikhomirov ISBN: 9780691102870; Publisher: Princeton University Press
Optional Text:	<u>Combinatorial Optimization: Algorithms and Compexity</u> by Papadimitriou and Steiglitz ISBN: 0486402584; Publisher: Courier Dover, 1998
GS/CSE 6390A 3.0	Special Topics: Knowledge and Representation
Optional Text:	<u>Knowledge Representation and Reasoning</u> by Ronald Brachman and Hector Levesque ISBN: 9781558609327; Publisher: Elsevier