

Text Book Listing

Winter 2014

CSE 1019 3.0	Discrete Math for Computer Science
Required Text:	<u>Discrete Mathematics and Its Applications</u> , by Kenneth.H. Rosen ISBN: 9780073383095; 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
Optional Text:	<u>Absolute Java, 5th Ed.</u> by Walter Savitch and Kenrick Mock ISBN: 9780132830317; 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:9781449672843; Publisher: Jones and Bartlett.
CSE 1541 3.0	Computing for the Physical Sciences
Required Text:	<u>MATLAB: A Practical Introduction to Programming and Problem Solving, 3rd Ed.</u> by Stormy Attaway ISBN: 9780124058767; Publisher: Elsevier
CSE 1560 3.0	Computing for Math and Statistics
Required Text:	<u>Mathematical Computing: An Introduction to Programming Using Maple</u> by David Betounes and Mylan Redfern ISBN: 978146126548; Publisher: Springer
CSE 1570 3.0	Introduction to Computing for Psychology
Required Text:	<u>Matlab for Psychologists</u> by Mauro Borgo, Alessandro Soranzo and Massimo Grassi ISBN: 9781461421962; Publisher: Springer
CSE 1720 3.0	Building Interactive Systems
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
Optional Text:	<u>Introduction to the Theory of Computation, 3rd Ed.</u> by Michael Sipser ISBN: 9781133187790; Publisher: Cengage Learning

CSE 2011 3.0	Fundamentals of Data Structures
Required Text:	<u>Data Structures and Algorithms Using Java, 5th Ed.</u> , by William McAllister ISBN: 9781118771334; Publisher: Wiley
CSE 2021 4.0	Computer Organization
Required Text:	<u>Computer Organization and Design: The Hardware/Software Interface, 5th Ed.</u> , by J. Hennessy & David A. Patterson ISBN: 0124077269; Publisher: 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 Software Series
CSE 2041 3.0	Net-Centric Computing
Required Text:	<u>Web Technologies: A Computer Science Perspective (2007)</u> by Jeffrey C. Jackson ISBN: 9780131856035; Publisher: Prentice Hall
CSE 3101 3.0	Design and Analysis of Algorithms
Optional Text:	<u>Introduction to Algorithms, 3rd Ed.</u> , by T.H. Cormen, C.E. Leiserson, R.L. Rivest and C. Stein ISBN: 9780262033848; Publisher: MIT Press
CSE 3213 3.0	Communication Networks
Required Text:	<u>Communication Networks: Fundamental Concepts and Key Architectures, 2nd Ed.</u> by Alberto Leon-Garcia and Indra Widjaja ISBN: 9780072463521; Publisher: McGraw-Hill
CSE 3214 3.0	Computer Network Protocols and Applications
Required Text:	<u>Computer Networking: A Top-Down Approach, 6th Ed.</u> by J. Kurose and K. Ross ISBN: 9780132856201; Publisher: Addison-Wesley
CSE 3215 3.0	Embedded Systems
Required Text:	<u>Embedded System Design: A Unified Hardware/Software Introduction, 1st Ed.</u> by Frank Vahid and Tony Givargis ISBN: 9780471386780; Publisher: Wiley
CSE 3221 3.0	Operating System Fundamentals
Required Text:	<u>Operating System Concepts, 9th Ed.</u> By A. Silberschatz, P. Galvin and G. Gagne ISBN: 9781118063330; Publisher: Wiley
CSE 3311 3.0	Software Design
Required Text:	<u>Object-Oriented Software Construction, 2nd Ed.</u> by Bertrand Meyer ISBN: 0136291554; Publisher: Prentice Hall
Optional Text:	<u>Touch of Class: Learning to Program Well with Objects and Contracts, 1st Ed.</u> by Bertrand Meyer ISBN: 9783540921448; Publisher: Springer
Optional Text:	<u>Object-Oriented Programming in Eiffel, 2nd Ed.</u> by Pete Thomas and Ray Weedon ISBN: 0201331314; Publisher: Addison-Wesley
Optional Text:	<u>Design Patterns: Elements of Reusable Object-Oriented Software, 1st Ed.</u> by Erich Gamma, Richard Helm, Ralph Johnson and John Vlissides ISBN: 0201633612; Publisher: Addison-Wesley
CSE 3342 3.0	System Specification and Refinement
Optional Text:	<u>Modeling in Event-B: System and Software Engineering</u> by Jean-Raymond Abrial ISBN: 9780521895569; Publisher: Cambridge University Press

CSE 3401 3.0	Introduction to Artificial Intelligence and Logic Programming
Required Text:	<u>Prolog Programming for Artificial Intelligence, 4th Ed.</u> By Ivan Bratko ISBN: 9780321417466; Publisher: Pearson Ed
CSE 3421 3.0	Introduction to Database Systems
Required Text:	<u>Database Management Systems, 3rd Ed.</u> by R. Ramakrishnan and J. Gerke ISBN: 9780072465631; Publisher: McGraw-Hill
CSE 3482 3.0	Introduction to Computer Security
Required Text:	<u>Computer Security: Principles and Practices, 2nd Ed.</u> by W. Stallings and L. Brown ISBN: 9780132775069; Publisher: Pearson Ed.
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 4101 3.0	Advanced Data Structures
Optional Text:	<u>Introduction to Algorithms, 3rd Ed.</u> by T.H. Cormen, C.E. Leiserson, R.L. Rivest and C. Stein ISBN: 9780262033848; Publisher: MIT Press
CSE 4111 3.0	Automata and Computability
Required Text:	<u>Theory of Computation</u> by George Tourlakis ISBN: 9781118014783; Publisher: Wiley
CSE 4210 3.0	Architecture and Hardware for Digital Signal Processing
Required Text:	<u>VLSI Digital Signal Processing Systems: Design and Implementation</u> by Keshab K. Parhi ISBN: 9780471241867; Publisher: Wiley
CSE 4215 3.0	Mobile Communications
Required Text:	<u>Introduction to Wireless Systems, 1st Ed.</u> by Black, Di Piazza, Ferguson, Voltmer and

ISBN: 9780132782241; Publisher: Prentice Hall

Optional Text: Mobile Communications, 2nd Ed. by Jochen Schiller
ISBN: 9780321123817; Publisher: Addison-Wesley

CSE 4313 3.0 Software Engineering Testing

Required Text: Software Testing: A Craftman's Approach, 4th Ed. by Paul C. Jorgensen
ISBN: 9781466560680; Publisher: Auerbach Publications

CSE 4352 3.0 Real-Time Systems Practice

Optional Text: Real-Time Systems Design Principles for Distributed Embedded Applications, 2nd Ed. by H. Kopetz
ISBN: 9781441982360; Publisher: Springer

CSE 4411 3.0 Database Management Systems

Required Text: Database Management Systems, 3rd Ed. by R. Ramakrishnan and J. Gerke
ISBN: 9780072465631; Publisher: McGraw-Hill

CSE 4421 3.0 Introduction to Robotics

Required Text: Computational Principles of Mobile Robotics, 2nd Ed. by Gregory Dudek and Michael Jenkin
ISBN: 9780521692120; Publisher: Cambridge University Press

CSE 4480 3.0 Computer Security Project

Required Text: N/A

CSE 4491 3.0 Computer Games: Simulation and Animation

Optional Text: Computer Animation, 3rd Ed. by Rick Parent
ISBN: 9780124158429; Publisher: Elsevier

GS/CSE 5101 3.0 Advanced Data Structures

Optional Text: Introduction to Algorithms, 3rd Ed. by T.H. Cormen, C.E. Leiserson, R.L. Rivest and C. Stein
ISBN: 9780262033848; Publisher: MIT Press

GS/CSE 5111 3.0 Automata and Computability

Required Text: Theory of Computation by George Tourlakis
ISBN: 9781118014783; Publisher: Wiley

GS/CSE 5910 3.0 Software Foundations

Required Text: Java By Abstraction: A Client-View Approach, 3rd Ed. By Hamzeh Roumani
ISBN: 9780558819835; Publisher: Pearson Ed.

GS/CSE 6115 3.0 Computational Complexity

Required Text: Computational Complexity: A Modern Approach by Sanjeev Arora and Boaz Barak
ISBN: 9780521424264; Publisher: Cambridge University Press

GS/CSE 6421 3.0 Advanced Data Systems

Optional Text: Database Management Systems, 3rd Ed. by R. Ramakrishnan and J. Gehrke
ISBN: 9780072465631; Publisher: McGraw-Hill

Optional Text: Materials Science and Engineering: An Introduction, 8th Ed. by W.D. Callister and D.G. Rethwisch
ISBN: 9780470419977; Publisher: Wiley

Optional Text: Statistics and Mechanics of Materials: An Integrated Approach, 2nd Ed. by W.F. Riley, L.D. Sturges and D.H. Morris
ISBN: 9780471434467; Publisher: Wiley

ENG 2210 3.0 **Electronic Circuits and Devices**

Required Text: Microelectronic Circuits, 6th Ed. by Sedra and Smith
ISBN: 9780195323030; Publisher: Oxford University Press
