Department of Electrical Engineering & Computer Science
Revised September 17, 2014
FALL 2014 TEXTBOOK LIST

Course	Title	Required Textbook (optional textbooks indicated by *)
MATH 1090 3.00 A	Introduction to Logic for Computer Science	Mathematical Logic, 2008. by George Tourlakis; ISBN: 9780470280744 (Wiley)
EECS 1019 3.00 C	Discrete Mathematics for Computer Science	Discrete Mathematics and Its Applications, 7th Ed. by Kenneth Rosen; ISBN: 0073383090 (McGraw-Hill)
EECS 1020 3.00 (all sections)	Introduction to Computer Science I	Java by Abstraction, 4th Ed. by Hamzeh Roumani ISBN: 9781269950305 (Pearson)
EECS 1030 3.00 E	Introduction to Computer Science II	Absolute Java, 5th Ed. by Walter Savitch ISBN: 0132830310 (Pearson) *optional text*
EECS 1520 3.00 (all sections)	Computer Use: Fundamentals	Computer Science Illuminated, 5th Ed. by Nell Dale and John Lewis ISBN: 9781449672843 (Jones and Bartlett)
EECS 1710 3.00 A	Programming for Digital Media	Java by Abstraction, 4th Ed. by Hamzeh Roumani ISBN: 9781269950305 (Pearson)
EECS 2001 3.00 E	Introduction to the Theory of Computation	Introduction to the Theory of Computation, 3rd Ed. by Michael Sipser ISBN: 9781133187790 (Course Technology)
EECS 2011 3.00 A	Fundamentals of Data Structures	Data Structures and Algorithms in Java, 6th Ed. by Michael T. Goodrich et al. ISBN: 9781118771334 (Wiley)
EECS 2021 3.00 E	Computer Organization	Computer Organization and Design: The Hardware/Software Interface, 5th Ed. by David A. Patterson and J. Hennessy ISBN: 9780124077263 (Morgan Kaufmann)
EECS 2031 3.00 E	Software Tools	The C Programming Language, 2nd Ed. by Brian W. Kernighan and Dennis M. Ritchie ISBN: 0131103628 (Prentice Hall)
EECS 2200 3.00 E	Electrical Circuits	Electric Circuits, 10th Ed. by Nilsson and Riedel ISBN: 9780133760033 (Prentice Hall)
EECS 3101 3.00 E	Design and Analysis of Algorithms	How to Think About Algorithms, May 2008. by Jeff Edmonds ISBN: 9780521614108 (Cambridge University Press) *optional text*
EECS 3121 3.00 B	Numerical Methods I	Numerical Analysis, 9th Ed. by R.L. Burden and J.D. Faires ISBN: 9780538733519 (Brooks Cole Publishing)
EECS 3201 4.00 E	Digital Logic Design	Digital Design with an Introduction to the Verilog HDL, 5th Ed. by Mano and Ciletti ISBN: 9780132774208 (Pearson) Fundamentals of Digital Logic with Verilog Design, 3rd Ed. by Brown and Vraesic ISBN: 9780073380544 (McGraw-Hill) *optional text*
EECS 3213 3.00 E	Communication Networks	Communication Networks, 2nd Ed. by Alberto Leon-Garcia ISBN: 9780072463521 (McGraw-Hill)
EECS 3221 3.00 A	Operating System Fundamentals	Operating System Concepts, 9th Ed. by A. Silberschatz, P.B. Galvin and G. Gagne ISBN: 9781118063330 (Wiley)

Course	Title	Required Textbook (optional textbooks indicated by *)
EECS 3311 3.00 A	Software Design	Object-Oriented Software Construction, 1997. by Bertrand Meyer ISBN: 0136291554 (Prentice Hall) *optional text*
EECS 3401 3.00 A	Introduction to Algorithm and Logic Programming	Prolog Programming for Artificial Intelligence, 4th Ed. by Ivan Bartko ISBN: 9780321417466 (Pearson)
EECS 3421 3.00 A	Introduction to Database Systems	Database Management Systems, 3rd Ed. by R. Ramakrishnan and J. Gehrke ISBN: 0072465638 (McGraw-Hill)
EECS 3431 3.00 A	Introduction to 3D Computer Graphics	Interactive Computer Graphic: A Top-Down Approach with Shader-Based OpenGL, 7th Ed. by Edward Angel and Dave Shreiner ISBN: 0132545233 (Pearson) *optional text*
EECS 3451 3.00 E	Signals and Systems	Continuous and Discrete Time Signals and Systems, 1st Ed. by M. Mandal and A. Asif ISBN: 0521854555 (Cambridge)
EECS 3481 3.00 A	Applied Cryptography	Introduction to Cryptography with Coding Theory, 2nd Ed. by Trappe and Washington ISBN: 9780131862395 (Prentice Hall) *optional text*
EECS 4115 3.00 A	Computational Complexity	Introduction to the Theory of Computation, 3rd Ed. by Michael Sipser ISBN: 9781133187790 (Course Technology) *note – the 2nd edition is also acceptable (ISBN: 9780534950972)*
EECS 4201 3.00 E	Computer Architecture	Computer Architecture: Quantitative Approach, 5th Ed. by David A. Patterson and J. Hennessy ISBN: 9780123838728 (Morgan Kaufmann)
EECS 4214 3.00 E	Digital Communications	Digital Communications: Fundamentals and Applications, 2nd Ed. by Bernard Sklar ISBN: 9780130847881 (Prentice Hall)
EECS 4422 3.00 A (cross-listed to GS/CSE 5323 3.00 A)	Computer Vision	Computer Vision Algorithms and Applications. by R. Szeliski ISBN: 9781848829343 (Springer)
EECS 4482 3.00 A	Computer Security Management	Management of Information Security, 3rd Ed. by M.E. Whitman and H.J. Mattord ISBN: 9781435488847 (Cengage Learning) Applied Information Security: A Hands-On Guide to Information Security Software, 1st Ed. by R. Boyle ISBN: 9780136122036 (Prentice Hall) *optional text*
GS CSE 6115 3.00 A	Computational Complexity	Computational Complexity: A Modern Approach, 1st Ed. by Sanjeev Arora and Boaz Barak ISBN: 97805211424264 (Cambridge University Press)
GS CSE 6329 3.00 A	Advanced Human-Computer Interaction	Human-Computer Interaction: An Empirical Research Perspective. by I. Scott MacKenzie ISBN: 9780124058651 (Morgan Kaufmann)
ENG 2001 3.00 Z	Engineering Projects: Management, Economics and Safety	Custom Pkg for Engineering Projects: Management, Economics and Safety with Project Management Connect Access Code Card, 2014. by Larson ISBN: 9781259462528 (McGraw-Hill)