

# FALL 2015 TEXTBOOK LIST

Course	Title	Required Textbook ( <i>optional textbooks indicated by *</i> )
EECS 1011 E&Z 3.00	<b>Computational Thinking</b>	E-book: <a href="http://site.ebrary.com/lib/oculyork/detail.action?docID=10483436">http://site.ebrary.com/lib/oculyork/detail.action?docID=10483436</a>
EECS 1012C 3.00	<b>Introduction to Computer Science</b>	<u>Web Programming: Step by Step, 2<sup>nd</sup> Ed.</u> by Stepp, Miller and Kirst ISBN: 9781105578786
EECS 1019C 3.00	<b>Discrete Math for Computer Science</b>	<u>Discrete Mathematics and Its Applications, 7<sup>th</sup> Ed.</u> by Kenneth Rosen ISBN: 9780073383095  <u>Student Solutions Manual for Discrete Mathematics and its Applications</u> by Kenneth Rosen ISBN: 9780073107813
EECS 1520 (all sections) 3.0	<b>Computer Use Fundamentals</b>	<u>Computer Science Illuminated 6<sup>th</sup> Ed.</u> by Nell Dale ISBN: 9781284055917
EECS 1710A 3.0	<b>Programming for Digital Media</b>	<u>Java by Abstraction, 4<sup>th</sup> Ed.</u> by H. Roumani ISBN: 9781269950305
EECS 2001E 3.0	<b>Introduction to the Theory of Computation</b>	<u>Introduction to Automata Theory, Languages, and Computation</u> by J.E. Hopcroft, R. Motwani, and J. Ullman ISBN: 9780321455369
EECS 2011A 3.0	<b>Fundamentals of Data Structures</b>	<u>Data Structures and Algorithms in Java, 6<sup>th</sup> Ed.</u> by Goodrich, Tamassia and Goldwasser ISBN: 9781118771334
EECS 2021E 4.0	<b>Computer Organization</b>	<u>Computer Organization and Design: the Software/Hardware Interface, 5<sup>th</sup> Ed.</u> by Patterson and Hennessy ISBN: 9780124077263
EECS 2030E 3.0	<b>Advanced Object Oriented Programming</b>	<u>Absolute Java, 6<sup>th</sup> Ed.</u> by Walter Savitch ISBN: 9780134243931
EECS 2031A 3.0	<b>Software Tools</b>	<u>C Programming Language, 2<sup>nd</sup> Ed.</u> by Kernighan and Ritchie ISBN: 9780131103627
EECS 2200E 3.0	<b>Electrical Circuits</b>	<u>Electric Circuits, 10<sup>th</sup> Ed.</u> by James Nilsson and Susan Riedel ISBN: 9780133760033  <u>Microelectronic Circuits, 7<sup>th</sup> Ed.</u> by Sedra and Smith ISBN: 9780199339136  *optional text*

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EECS 3000A 3.00	<b>Professional Practice in Computing</b>	<u>Ethics for the Information Age, 6<sup>th</sup> Ed.</u> by Michael J. Quinn ISBN: 9780133741629
EECS 3101E 3.0	<b>Design and Analysis of Algorithms</b>	<u>Introduction to Algorithms, 3<sup>rd</sup> Ed.</u> by Cormen, Leiserson, Rivest & Stein ISBN: 9780262033848
EECS 3201E 3.0	<b>Digital Logic Design</b>	<u>Fundamentals of Digital Logic with Verilog Design, 3<sup>rd</sup> Ed.</u> by Brown & Vranesic ISBN: 9780073380544
EECS 3213E 3.0	<b>Communication Networks</b>	<u>Data Communications and Networking, 5<sup>th</sup> Ed.</u> by Behrouz A. Forouzan ISBN: 9780073376226
EECS 3221A 3.0	<b>Operating System Fundamentals</b>	<u>Operating System Concepts, 9<sup>th</sup> Ed.</u> by A. Silberschatz, P.B. Galvin & G. Gagne ISBN: 9781118063330
EECS 3311A 3.0	<b>Software Design</b>	<u>Object Oriented Software Construction, 2<sup>nd</sup> Ed.</u> by Bertrand Meyer ISBN: 9780136291558
EECS 3401A 4.0	<b>Introduction to AI and Logic Programming</b>	<u>Prolog Programming for Artificial Intelligence, 4<sup>th</sup> Ed.</u> by Ivan Bratko ISBN: 9780321417466
EECS 3421A 3.0	<b>Introduction to Database Systems</b>	<u>Database Management Systems, 3<sup>rd</sup> Ed.</u> by Ramakrishnan & Gehrke ISBN: 9780072465631
EECS 3431A 3.0	<b>Introduction to 3D Computer Graphics</b>	<u>Interactive Computer Graphics: A Top-Down Approach with WebGL, 7<sup>th</sup> Ed.</u> by Edward Angel ISBN: 9780133574845
EECS 3451E 3.0	<b>Signals and Systems</b>	<u>Signals and Systems for Dummies.</u> by Mark Wickert ISBN: 9781118475812
EECS 3602E 3.0	<b>Systems and Random Processes</b>	<u>Continuous and Discrete Time Signals and Systems</u> by M. Mandal & A. Asif ISBN: 9780521854559
EECS 3603E 3.0	<b>Electromechanical Energy Conversion</b>	<u>Electric Machinery Fundamentals, 5<sup>th</sup> Ed.</u> by Stephen Chapman ISBN: 9780073529547  <u>Electric Machinery and Transformers, 3<sup>rd</sup> Ed.</u> by Guru & Hiziroglu ISBN: 9780195138900 <b>*optional text*</b>  <u>Principles of Electric Machines and Power Electronics, 3<sup>rd</sup> Ed.</u> by P.C. Sen ISBN: 9781118078877 <b>*optional text*</b>

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EECS 4111A 3.0	<b>Automata and Computability</b>	<u>Introduction to the Theory of Computation, 3<sup>rd</sup> Ed.</u> by Michael Sipser ISBN: 9781133187790
EECS 4201E 3.0	<b>Computer Architecture</b>	<u>Computer Architecture: A Quantitative Approach, 5<sup>th</sup> Ed.</u> by Patterson & Hennessy ISBN: 9780123838728
EECS 4214E 3.0	<b>Digital Communications</b>	<u>Digital Communications: Fundamentals and Applications, 2<sup>nd</sup> Ed.</u> by B. Sklar ISBN: 9780130847881
EECS 4314E 3.0	<b>Advanced Software Engineering</b>	<u>Software Engineering, 10<sup>th</sup> Ed.</u> by Ian Sommerville ISBN: 9780133943030 <b>*optional text*</b>  <u>Refactoring: Improving the Design of Existing Code</u> by Fowler et al. ISBN: 9780201485677 <b>*optional text*</b>
EECS 4422A 3.0	<b>Computer Vision</b>	<u>Computer Vision: A Modern Approach, 2<sup>nd</sup> Ed.</u> by Forsyth and Ponce ISBN: 9780136085928
EECS 4482A 3.0	<b>Computer Security Management</b>	<u>Information and Information Technology Assurance for IT Managers, 1<sup>st</sup> Ed.</u> by David Chan ISBN: 9781772210286
ENG 2001E&Z 3.0	<b>Engineering Projects: Management, Economics and Safety</b>	<u>Engineering Economics: Financial Decision Making for Engineers, 5<sup>th</sup> Ed.</u> by Niall M. Fraser ISBN: 9780132379250  <u>Basics of Engineering Economy, 2<sup>nd</sup> Ed.</u> by Blank ISBN: 9780073376356 <b>*optional text*</b>
MATH 1090A 3.0	<b>Introduction to Logic for Computer Science</b>	<u>Mathematical Logic</u> by George Tourlakis ISBN: 9780470280744