

EECS: Fall 2010 Textbook Order

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| Catalog Nbr   | Section | Instructor Names                    | Title/Description  | Author                            | ISBN          | Edition    | Textbook Required Status | Publisher                     |
| 182   | 001     | Flinn,Jason<br>Nelson               | Using Google App Engine                                      | Severance, Charles R.             | 059680069X    |            | Optional                 | O'Reilly                      |
| 182   | 001     | Flinn,Jason<br>Nelson               | Python Programming, by Zelle, 2nd edition                    |                                   | 9781590282359 |            | Optional                 |                               |
| 203   | 001     | Boyapati,<br>Chandrasekhar          | Discrete Mathematics and Its Application                     | Kenneth Rosen                     | 0073352470    | UM VERSION | Required                 | McGraw Hill                   |
| 203   | 002     | Scott,Clayton D                     | Discrete Mathematics and Its Application                     | Kenneth Rosen                     | 0073352470    | UM VERSION | Required                 | McGraw Hill                   |
| 215   | 001     | Ulaby,Fawwaz T                      | Circuits   | Fawwaz T. Ulaby,<br>Michel M. Mah | 9781934891001 |            | Required                 | National Technology & Science |
| 215   | 001     | Ulaby,Fawwaz T                      | Circuits Make Sense by A Ganago, 7E, ISBN 9780470907122      |                                   |               |            | Required                 |                               |
| 215   | 002     | Ulaby,Fawwaz T                      | Circuits   | Fawwaz T. Ulaby,<br>Michel M. Mah | 9781934891001 |            | Required                 | National Technology & Science |
| 216   | 001     | Yagle,Andrew E                      | Continuous and discrete signals and systems                  | Samir S. Soliman,<br>Mandyam D. S | 0135184738    | 2nd ed.    | Required                 | Prentice Hall                 |
| 216   | 002     | Winick,Kim A                        | Continuous and discrete signals and systems                  | Samir S. Soliman,<br>Mandyam D. S | 0135184738    | 2nd ed.    | Required                 | Prentice Hall                 |
| 230   | 001     | Grbic,Anthony                       | Fundamentals of Applied Electromagnetics, by F Ulaby, 6th Ed |                                   | 0132139316    |            | Required                 |                               |
| 230   | 002     | Moghaddam,<br>Mahta                 | Fundamentals of Applied Electromagnetics, by F Ulaby, 6th Ed |                                   | 0132139316    |            | Required                 |                               |
| 270   | 001     | Sakallah,Karem<br>A; Sewell,Korey L | Digital design, with RTL design, VHDL, and Verilog           | Frank Vahid.                      | 9780470531082 | 2nd ed.    | Required                 | John Wiley                    |
| 270   | 002     | Sakallah,Karem<br>A; Sewell,Korey L | Digital design, with RTL design, VHDL, and Verilog           | Frank Vahid.                      | 9780470531082 | 2nd ed.    | Required                 | John Wiley                    |
| 280   | 001     | Chesney,David R                     | Absolute C++   | Walter Savitch.                   | 0321468937    | 3rd ed.    | Required                 | Pearson/Addison Wesley        |

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| 280   | 002     | Ringenberg,Jeff                            | Absolute C++   | Walter Savitch.                   | 0321468937    | 3rd ed.    | Required                 | Pearson/Addison Wesley     |
| 311   | 001     | Wentzloff,David<br>D                       | Microelectronic circuits   | Adel S. Sedra,<br>Kenneth C. Smit | 0195323033    | 6th ed.    | Required                 | Oxford University Press    |
| 312   | 001     | Dick,Robert                                | Digital integrated circuits : a design perspective   | Jan M. Rabaey;<br>Anantha Chandra | 0130909963    | 2. ed.     | Required                 | Prentice Hall              |
| 314   | 001     | Ganago,<br>Alexander O                     | Electrical engineering : principles and applications   | Allan R. Hambley.                 | 0131989227    | 4th ed.    | Optional                 | Pearson Prentice Hall      |
| 314   | 001     | Ganago,<br>Alexander O                     | Making Sense of Electrical Engineering 2nd Edition with EE Supplement for UMICH Set ,<br><a href="http://he-cda.wiley.com/WileyCDA/Section/id380918.html">http://he-cda.wiley.com/WileyCDA/Section/id380918.html</a> |                                   |               |            | Optional                 |                            |
| 314   | 001     | Ganago,<br>Alexander O                     | Making Sense of Electrical Engineering in the Lab, 2nd ,<br><a href="http://he-cda.wiley.com/WileyCDA/Section/id-380920.html">http://he-cda.wiley.com/WileyCDA/Section/id-380920.html</a>                            |                                   |               |            | Required                 |                            |
| 320   | 001     | Lu,Wei                                     | Semiconductor device fundamentals : [with computer-based exercises and homework problems]  | Robert F. Pierret.                | 0201543931    | Reprint. w | Required                 | Addison-Wesley             |
| 330   | 001     | Jarrahi,Mona                               | Fundamentals of Applied Electromagnetics, by F Ulaby, 6th Ed   |                                   | 0132139316    |            | Required                 |                            |
| 334   | 001     | Rand,Stephen C                             | Introduction to optics   | Frank L. Pedrotti,<br>Leno S. Ped | 0131499335    | 3rd ed. -- | Required                 | Pearson Prentice Hall      |
| 370   | 001     | Bertacco,Valeria M;<br>Winsor,<br>Donald C | Computer organization and design : the hardware/software interface   | David A. Patterson,<br>John L. He | 0123744938    | 4th ed.    | Required                 | Morgan Kaufmann Publishers |
| 370   | 002     | Winsor,Donald C;<br>Bertacco,<br>Valeria M | Computer organization and design : the hardware/software interface   | David A. Patterson,<br>John L. He | 0123744938    | 4th ed.    | Required                 | Morgan Kaufmann Publishers |
| 376   | 001     | Compton,Kevin J                            | Introduction to the theory of computation  | Michael Sipser.                   | 9780534950972 | 2nd ed.    | Required                 | Thomson Course Technology  |
| 381   | 001     | Kieras,David<br>Edward                     | C: a reference manual  | Samuel P. Harbison<br>and Guy L.  | 013089592X    | 5. ed.     | Optional                 | Prentice Hall              |
| 381   | 001     | Kieras,David<br>Edward                     | The C programming language   | Brian W. Kernighan;<br>Dennis M.  | 0131103628    | 2. ed., [N | Required                 | Prentice Hall              |

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| 381   | 001     | Kieras,David Edward   | The C++ standard library a tutorial and reference  | Nicolai M. Josuttis            | 0201379260    | 5. print.  | Optional                 | Addison-Wesley             |
| 381   | 001     | Kieras,David Edward   | The C++ programming language                       | Bjarne Stroustrup              | 0201889544    | 3. ed., 5. | Required                 | Addison-Wesley-Longman     |
| 398   | 001     | Halderman,J Alex      | No Required Textbook                               |                                |               |            |                          |                            |
| 401   | 001     | Liu,Mingyan           | Introduction to probability                        | Dimitri P. Bertsekas and John  | 9781886529236 | 2nd ed.    | Required                 | Athena Scientific          |
| 411   | 001     | Mortazawi,Amir        | Microwave engineering                              | David M. Pozar.                | 0471448788    | 3rd ed.    | Required                 | J. Wiley                   |
| 413   | 001     | Flynn,Michael         | Design of analog CMOS integrated circuits          | Behzad Razavi.                 | 9780072380323 |            | Required                 | McGraw-Hill                |
| 414   | 001     | Yoon,Euisik           | Foundations of MEMS                                | Chang Liu                      | 0131472860    |            | Optional                 | Prentice Hall              |
| 420   | 001     | Zhong,Zhaohui         | Solid state physics                                | Neil W. Ashcroft, N. David Mer | 0030839939    | 27. repr.  | Optional                 | Holt, Rinehart and Winston |
| 420   | 001     | Zhong,Zhaohui         | Introduction to solid state physics                | Charles Kittel.                | 9780471415268 | 8th ed.    | Required                 | John Wiley & Sons          |
| 420   | 001     | Zhong,Zhaohui         | Quantum transport : atom to transistor             | Supriyo Datta.                 | 9780521631457 | Repr. with | Optional                 | Cambridge University Press |
| 421   | 001     | Singh,Jasprit         | Semiconductor device physics and design            | by Umesh K. Mishra and Jasprit | 9781402064807 |            | Required                 | Springer                   |
| 423   | 001     | Pang,Stella W         | Fabrication engineering at the micro and nanoscale | Campbell, Stephen A., 1954-    | 0195320174    |            | Required                 | Oxford University Press    |
| 427   | 001     | Zhang,Zhengya         | Digital integrated circuits : a design perspective | Jan M. Rabaey; Anantha Chandra | 0130909963    | 2. ed.     | Required                 | Prentice Hall              |
| 434   | 001     | Islam,Mohammed Nazrul | Fundamentals of photonics                          | Bahaa E. A. Saleh; Malvin Carl | 9780471358329 | 2. ed.     | Required                 | Wiley-Interscience         |

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| 451   | 001     | Yagle,Andrew E                   | Digital signal processing : [principles, algorithms, and applications]                 | John G. Proakis;<br>Dimitris G. M | 0131873741    | 4. ed.     | Required                 | Pearson/Prentice Hall      |
| 455   | 001     | Stark,Wayne E                    | No Required Textbook   |                                   |               |            |                          |                            |
| 458   | 001     | Fan,Xudong                       | Medical instrumentation : application and design                                       | John G. Webster.                  | 9780471676003 | 4th ed.    | Optional                 | Wiley                      |
| 460   | 001     | Meerkov,Semyon M                 | Automatic control systems  | Benjamin C. Kuo,<br>Farid Golnara | 0471134767    | 8th ed.    | Required                 | J. Wiley                   |
| 475   | 001     | Compton,Kevin J                  | Cryptography and Network Security.   | William Stallings.                | 0136097049    | 5th ed.    | Required                 | Prentice Hall              |
| 478   | 001     | Markov,Igor L                    | Logic synthesis and verification algorithms  | by Gary D. Hachtel;<br>Fabio Some | 0387310045    | 1st softco | Optional                 | Springer                   |
| 482   | 001     | Chen,Peter M                     | Modern operating systems   | Andrew S.<br>Tanenbaum.           | 0136006639    | 3rd ed.    | Optional                 | Pearson Prentice Hall      |
| 484   | 001     | Lefevre,Kristen R                | Database management systems  | Ramakrishnan<br>Raghu, Johannes G | 0072465638    | 3. bs.     | Required                 | Mcgraw Hill                |
| 492   | 001     | Kuipers,Benjamin                 | Artificial Intelligence.   |                                   | 9780136042594 |            | Required                 | Prentice Hall              |
| 494   | 001     | Laird,John E                     | Fundamentals of game design  | Ernest Adams,<br>Andrew Rollings. | 0321643372    | 2nd ed.    | Required                 | New Riders                 |
| 497   | 001     | Dorf,Mary Lou;<br>Soloway,Elliot | Crossing the chasm : marketing and selling disruptive products to mainstream customers | Geoffrey A. Moore ;<br>with a for | 0060517123    | Rev. ed.,  | Required                 | CollinsBusiness Essentials |
| 497   | 001     | Dorf,Mary Lou;<br>Soloway,Elliot | The mythical man month essays on software engineering                                  | Frederick P. Brooks               | 9780201835953 | Anniversar | Required                 | Addison-Wesley             |
| 498   | 005     | Ku,PC                            | A coursepack will be available later.  |                                   |               |            | Required                 |                            |
| 498   | 009     | Hofmann,Heath                    | Power electronics : converters, applications, and design                               | Ned Mohan, Tore M.<br>Undeland, W | 9780471226932 | 3rd ed.    | Required                 | John Wiley & Sons          |

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| 501   | 001     | Hero III,Alfred O         | Probability and random processes for electrical and computer engineers  | John A. Gubner.                | 0521864704    |         | Required                 | Cambridge University Press     |
| 503   | 001     | Michielssen,Eric          | Computational methods for electromagnetics  | Andrew F. Peterson, Scott L. R | 0780311221    |         | Required                 | IEEE Press                     |
| 516   | 001     | Xu,Zhen                   | No Required Textbook  |                                |               |         |                          |                                |
| 517   | 001     | Kushner,Mark              | Principles of plasma discharges and materials processing  | Michael A. Lieberman, Allan J. | 9780471720010 | 2nd ed. | Required                 | Wiley-Interscience             |
| 517   | 001     | Kushner,Mark              | Plasma physics and engineering  | Fridman, Alexander A., 1953-   | 9781560328483 |         | Optional                 | Taylor & Francis               |
| 523   | 001     | Sylvester,Dennis Michael  | Fundamentals of modern VLSI devices   | Yuan Taur, Tak H. Ning.        | 9780521832946 | 2nd ed. | Required                 | Cambridge University Press     |
| 529   | 001     | Bhattacharya, Pallab K    | Semiconductor optoelectronic devices  | Pallab Bhattacharya.           | 9780138057480 |         | Required                 | Prentice Hall                  |
| 538   | 001     | Galvanauskas, Almantas    | Optical waves in crystals : propagation and control of laser radiation  | Amnon Yariv, Pochi Yeh.        | 0471091421    |         | Required                 | Wiley                          |
| 540   | 001     | Steel,Duncan G            | Introductory Quantum Mechanics Davydov, Quantum Mechanics, out of print, copy at DollarBill, South Univ. At least one text book is strongly advised. Davydov or |                                |               |         | Required                 |                                |
| 543   | 001     | Durfee,Edmund H           | Prolog programming for artificial intelligence  | Ivan Bratko.                   | 0201403757    | 3rd ed. | Required                 | Addison Wesley                 |
| 543   | 001     | Durfee,Edmund H           | Paradigms of artificial intelligence programming : case studies in Common Lisp  | Norvig, Peter.                 | 9781558601918 |         | Required                 | Morgan Kaufman Publishers      |
| 551   | 001     | Nadakuditi,Rajesh Rao     | Matrix analysis for scientists and engineers  | Alan J. Laub.                  | 0898715768    |         | Required                 | Society for Industrial and App |
| 551   | 001     | Nadakuditi,Rajesh Rao     | Matrix methods in data mining and pattern recognition   | Lars Elden.                    | 9780898716269 |         | Required                 | Society for Industrial and App |
| 554   | 001     | Anastasopoulos, Achilleas | Digital communications  | John G. Proakis, Masoud Salehi | 9780072957167 | 5th ed. | Required                 | McGraw-Hill                    |

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| 560   | 001     | Grizzle,Jessy W          | Linear state-space control systems  | Robert L. Williams II ;<br>Dougl  | 9780471735557 | [Online-Au | Optional                 | Wiley              |
| 568   | 001     | Eustice,Ryan M           | Probabilistic Robotics  | S. Thrun, W.<br>Burgard, and D. F | 0262201623    | 3RD PRINT  | Required                 | MIT Press          |
| 574   | 001     | Shi,Yaoyun               | No Required Textbook  |                                   |               |            |                          |                    |
| 579   | 001     | Hayes,John<br>Patrick    | Essentials of electronic testing for digital, memory and mixed-signal VLSI circuits | Michael L. Bushnell;<br>Vishwani  | 9780792379911 | 2. print.  | Required                 | Kluwer Acad. Publ. |
| 598   | 002     | Raieszadeh,Mina          | RF MEMS : theory, design, and technology  | Gabriel M. Rebeiz. --             | 9780471201694 |            | Optional                 | Wiley-Interscience |
| 634   | 001     | Winful,Herbert<br>Graves | Nonlinear optics  | by Robert W. Boyd.                | 0123694701    | 3rd ed.    | Optional                 | Academic           |