

ECE Course Textbook List

Monday, April 28, 2008

* X, XO, XE mean, respectively, taught each year, taught odd-numbered years, and taught even-numbered years. (For example, Spring 2002 is an even-numbered year.)

* MSH = "most students have"

* The most current edition is usually the only one available from the publisher. If a more current edition is available than the edition listed below, students should buy the newest edition.

* These texts should be exclusively available through the OSU Bookstore at 2009 Millikin Road.

<i>Course</i>	<i>Au</i>	<i>Wi</i>	<i>Sp</i>	<i>Su</i>	<i>Textbook</i>	<i>Author</i>	<i>Publisher</i>	<i>Supervisor</i>
205	X	X	X		Analysis and Design of Linear Circuits, 5th Ed. (NOT Laplace version) ISBN: 471760951 (For Prof. Coifman -- Reference Text: John O'Malley, Schaum's Outline Series- Basic Circuit Analysis, ISBN 0070478244 (come to lecture before purchasing)).	Thomas and Rosa	Wiley	Coifman
206	X	X	X	X	Notes from UniPrint			Ozguner, F
209	X	X	X		No text Students must purchase a Breadboard voucher from OSU bookstore			Bibyk
261	X	X	X		Logic and Computer Design Fundamentals, 4th Ed. ISBN: 013198926X	Mano and Kime	Prentice-Hall	Khan
265	X	X	X		Data Acquisition and Process Control with the M68HC11 Microcontroller, 2nd Ed. ISBN: 0-13-779976-4	Driscoll, Coughlin, and Villanucci	Prentice-Hall	Klein
293	X	X	X	X	No text			
300	X	X	X		Principles and Applications of Electrical Engineering, 5th Ed. (CD not necessary) ISBN: 0-07-322033-7	Rizzoni	McGraw-Hill	Rojas-Teran
301	X	X	X		The Analysis and Design of Linear Circuits, 5th Ed. ISBN: 471760951 (not Laplace version) (MSH from 205)	Thomas and Rosa	Wiley	Schniter
309	X	X	X		A Practical Introduction to Electronic Instrumentation, 3rd Ed., 1997 ISBN: 0-787-23576-8	Rizzoni	Kendall/Hunt	Bibyk
311	X	X	X		Fundamentals of Applied Electromagnetics, 5th Ed., 2007 ISBN-10: 0132413264 ISBN-13: 9780132413268	Ulaby, F.	Prentice-Hall	Teixeira
312	X	X	X		Fundamentals of Applied Electromagnetics, 5th Ed., 2007 (MSH from 311) ISBN-10: 0132413264 ISBN-13: 9780132413268	Ulaby, F.	Prentice-Hall	Teixeira
320	X	X	X		Principles and Applications of Electrical Engineering, 5th Ed. (CD not necessary) (MSH from 300) ISBN: 0-07-322033-7	Rizzoni	McGraw-Hill	Khan
323	X	X	X		Microelectronic Circuits, 5th Ed. (CD not necessary) ISBN 0-19-514251-9	Sedra and Smith	Oxford University Pre	Bibyk

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327	X	X	X	X	Notes from UniPrint			Bibyk
331	X	X	X		Materials Science and Engineering: an Introduction, 7th Ed. (WITHOUT software diskette) ISBN: 471736961	W. D. Callister, Jr.	Wiley	Ringel
	X	X	X		Fundamentals of Semiconductor Devices, 2005 ISBN: 0072369779	Anderson and Anderson	McGraw-Hill	Ringel
341	X	X	X		Electric Machinery Fundamentals, 4th Ed. ISBN: 0-072-46523-9	Chapman	McGraw-Hill	Kasten
351	X	X	X		Fundamentals of Signals and Systems Using MATLAB, 3rd Ed. ISBN: 0131687379	Kamen and Heck	Prentice-Hall	Yurkovich
352	X	X	X		Fundamentals of Signals and Systems Using MATLAB, 3rd Ed. (MSH from 351) ISBN: 0131687379	Kamen and Heck	Prentice-Hall	Yurkovich
432	X	X	X		Fundamentals of Semiconductor Devices, 2005 ISBN: 0072369779 Optional text: Solid State Electronic Devices, 6th Ed.; ISBN: 0-131-49726-X, by Streetman and Banerjee; Prentice-Hall Publishing	Anderson and Anderson	McGraw-Hill	Roblin
447	X	X	X	X	Notes from UniPrint			Kasten
481	X				Ethics in Engineering, 4th Ed. ISBN: 0-07-283115-4	Martin & Shinzinger	McGraw-Hill	Passino
489	X	X	X	X	No text			Klein
501	X	X			Introduction to Analog and Digital Communications, 2nd Ed. ISBN-13 978-0-471-43222-7	Haykin & Moher	Wiley	El-Gamal
508	X	X			Notes from UniPrint			Potter
517		X	X	X	No text			Lee, JF
551	X		X		Modern Control Systems, 11th Ed. ISBN-10: 0132270285 ISBN-13: 9780132270281	Dorf and Bishop	Pearson Custom Publ	Serrani
557	X	X		X	Control Systems Technology Lab, 2003 ISBN: 0-536-80757-4	Yurkovich and Abiakel	Pearson Custom Publ	Yurkovich
561	X	X	X		Digital Design Principles and Practices, 4th Ed. ISBN: 0-131-86389-4	Wakerly	Prentice-Hall	Orin
567	X	X	X	X	Notes from UniPrint			Klein
582	X	X	X		Pocket Book of Technical Writing for Engineers and Scientists, 3rd Ed. ISBN-13: 978-007-319159-1/MHID: 007-319159-0	Finkelstein Jr., L.	McGraw-Hill	Valco
	X	X	X		Design for Electrical and Computer Engineers, 2002 ISBN 0-471-39146-8	E. Salt and R. Rothery	Wiley	Valco

Course	Au	Wi	Sp	Su	Textbook	Author	Publisher	Supervisor
600	X	X			A Course in Digital Signal Processing, 1996 ISBN: 978-0-471-14961-3 *Bookstore: This is printed "ON DEMAND ONLY" so please order early.	B. Porat	Wiley	Potter
609			X		No text			Potter
613	X				Notes from UniPrint			Teixeira
614			X		Introduction to Electromagnetic Compatibility, 2nd Ed. ISBN: 0-471-75500-1	C. R. Paul	Wiley	Rojas-Teran
620			X		RF Microelectronics ISBN: 0-13-887571-5	Razavi, B	Prentice-Hall	Ismail
624	X				Power Electronics: Converters, Applications & Design, 3rd Ed. ISBN: 4-712-26939	Mohan, Undeland, Robbins	Wiley	Xu
628	X				No text			Xu
632	X				No text			Lu
637	X				The Science and Engineering of Microelectronic Fabrication, 2nd Ed., 2001	Campbell, S.A.	Oxford University Pre	Valco
640			X		Required Reference: "2008 National Electrical Code" from the National Fire Protection Assoc. (1 Batterymarch Park, P.O. Box 9101, Quincy, MA 02169-9101, ph: 800-344-3555)			Kasten
643	X				Electric Machinery, 6th Ed. ISBN: 0-07-366009-4	Fitzgerald, Kingsley, Umans	McGraw-Hill	Kasten
647		X			DSP-Based Electromechanical Motion Control ISBN: 0-8493-1918-8	Toliyat and Campbell	CRC Press LLC	Keyhani
650	X				Lessons in Estimation Theory for Signal Processing, Communications and Control, 2nd Ed. (textbook is printed "on demand" - please order early)	J. Mendel	Prentice-Hall	Serrani
662	X		X		Computer Organization, 5th Ed.	Hamacher, Vranesic, and Zaky	McGraw-Hill	Klein
667	X	X	X	X	Notes from UniPrint			DeGroat
668		X			No text			Khan
675	X				Fundamentals of Transportation and Traffic Operations, 1997	Daganzo, C.F.	Pergamon	Coifman
682	X	X	X		No text			Klein
683	X	X	X	X	No text			Klein
683H	X	X	X	X	No text			Clymer
693	X	X	X	X	No text			Klein

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694	X	X	X		See individual 694 sections			
694A		X			Computer Organization, 5th ed. (MSH from ECE 662)	Hamacher, Vranesic, and Zaky	McGraw-Hill	Ozguner, F
694H	XE				Fundamentals of Optical Waveguides, 2nd Ed. ISBN: 0-12-525096-7	Okamoto	Academic Press	Reano
699	X	X	X	X	No text			Valco
700		X			No text			Schniter
701			X		Data Networks, 2nd Ed., 1992	Bertsekas & Gallager	Prentice-Hall	Ekici
702			X		Fundamentals of Communications Systems ISBN-10: 0071482806 ISBN-13: 978-0071482806	Fitz, M	McGraw-Hill	Schniter
706	X		X		Foundations of Medical Imaging, 1993	Z-H. Cho	Wiley	Clymer
707		X			Computer Vision: A Modern Approach, 2003 ISBN: 0-13-085198-1	Forsyth and Ponce	Prentice-Hall	Boyer
710	X		X		Microwave Engineering, 3rd Ed. (2004)	Pozar	John Wiley	Roblin
711		X			Antenna Theory: Analysis and Design, 3rd Ed. ISBN: 047166782X	C. Balanis	Wiley	Rojas-Teran
713			XE		Notes from UniPrint			Johnson
714		XE			Introduction to Radar Systems, 3rd Ed. ISBN: 0-07-288138-0	Skolnik	McGraw-Hill	Newman
715	X				Numerical Techniques in Electromagnetics, 2nd ed., 2000. ISBN: 0-849-31395-3	Sadiku, M.	CRC Press LLC	Volakis
		X			optional text: Finite Element Method for Electromagnetics, IEEE Press, 1998 ISBN: 0-780-33425-6	Volakis, Kempel, Chatterjee	Wiley	Volakis
716	XE				Notes from UniPrint			Anderson
719	X				No text			Lee, J-F
720		X			Analog Integrated Circuit Design	Johns and Martin	Wiley	Ismail
721			X		CMOS VLSI Design: A Circuits and Systems Perspective, 3rd Ed.	Weste and Harris	Addison Wesley	Bibyk
722	X				Design of Analog CMOS Integrated Circuits ISBN: 0-07-238032-2	Razavi, B.	McGraw-Hill	Ismail
723		X			Microwave Transistor Amplifiers, 2nd Ed., 1996	Gonzales, Guillermo	Prentice-Hall	Roblin
724		X			Power Electronics: Converters, Applications & Design, 3rd Ed. (MSH from 624)	Mohan, Undeland, Robbins	Wiley	Xu
730	X				Semiconductor Optoelectronic Devices, 2nd Ed., 1996	Pallab Bhattacharya	Prentice-Hall	Ringel

Course	Au	Wi	Sp	Su	Textbook	Author	Publisher	Supervisor
731			X		Fiber Optics and Optoelectronics, 2004 ISBN: 0-19-566930-4	Khare, R.P.	Oxford University Pre	Anderson
732	XO				Photonics: Optical electronics in modern communications, 6th Ed. ISBN-13: 978-0-19-517946-0 ISBN: 0-19-517946-3	A. Yraiv and P. Yeh	Oxford University Pre	Anderson
734			XO		Silicon VLSI Technology: Fundamentals, Practice and Modeling ISBN: 0-13-085037-3	Plummer, Deal, and Griffin	Prentice-Hall	Valco
735		XE			GaAs High-Speed Devices: Physics, Technology and Circuit Applications ISBN: 0-471-85641-X	C.Y. Chang, F. Kai	Wiley	Ringel
736		XO			Surfaces and Interfaces of Solid Materials, 4th Ed. ISSN: 1439-2674; ISBN: 3-540-42331-1	Luth, H.	Springer	Brillson
737		XO			Notes from UniPrint			Anderson
740	X				Power System Analysis, 1994	Grainger & Stevenson	McGraw-Hill	Keyhani
741		X			Power System Relaying, 2nd Ed. ISBN: 086 380 1854 Bookstore: 2nd edition is printed "ON DEMAND" so please order early. 3rd edition is due out July 2008.	Horowitz & Phadke	Wiley	Kasten
743			X		Notes from UniPrint			Keyhani
747		X			No text			Sebo
750	X				Fundamentals of Linear State Space Systems (Bookstore: must order from Primis custom publisher - entire book - PLEASE ORDER EARLY)	Bay, John	McGraw-Hill	Utkin
752			X		Introduction to Feedback Control Theory	Ozbay, H.	CRC Press LLC	Utkin
753					As listed for individual 753.xx sections			Yurkovich
753.01		XO			Digital Control of Dynamic Systems, 3rd Ed., 1997	Franklin, Powell, and Workman	Addison Wesley	Yurkovich
753.02		XE			No text			Ozguner, U
754		X			Nonlinear Systems, 3rd Ed.	Khalil, H.	Prentice-Hall	Serrani
755		X			Digital Control of Dynamic Systems, 3rd Ed., 2006 ISBN13: 9780979122606	Franklin, Powell, and Workman	Ellis-Kagle Press	Yurkovich
757			X		No text			Ozguner, U
758			XO		No text			Passino
759	X				Nonlinear Programming, 2nd Ed. ISBN: 1-886529-00-0	Dimitri P. Bertsekas	Athena Scientifica	Ozguner, U

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761	X				Computer Aided Logical Design with Emphasis on VLSI, 4th Ed. ISBN: 0-471-57527-5 (told by publisher this is still available)	Hill and Peterson	Wiley	Ozguner, F
762			X		VHDL: Analysis & Modeling of Digital Systems, 2nd Ed.	Navabi	McGraw-Hill	DeGroat
763	XO				Introduction to Robotics: Mechanics & Control, 3rd Ed. ISBN: 0-201-54361-3	J. Craig	Prentice-Hall	Orin
764			X		Writing Testbenches: Functional Verification of HDL Models, 2nd Ed.	Bergeron, J.	Kluwer	DeGroat
765	X				Microprocessor System Design: 68000 Hardware, Software, and Interfacing, 3rd Ed., 1997 ISBN-10: 0534948227 ISBN-13: 978-0534948221	Clements, Alan	Thomson-Engineerin	DeGroat
766		X			Data Communications and Networking, 4th Ed. (also includes Dictionary of Computing & Communications, FREE) ISBN: 0073430978	Forouzan, B.	McGraw-Hill	Ekici
767			XO		Use Case Driven Object Modeling with UML-Theory and Practice (Hardcover - Jan 11, 2007) ISBN-10: 1590597745 ISBN-13: 978-1590597743	Rosenberg and Stephens	apress	Khan
769			XE		No text			Khan
776	X	X			As listed for individual 776.xx sections			
776.01	X				ME teaches - they will order notes if needed.			Aldemir, T (ME)
776.02		X			No text			Aldemir, T (ME)
776.03		X			No text			Aldemir, T (ME)
779		X			Neural and Adaptive Systems: Fundamentals through Simulations ISBN: 0-471-35167-9	J. Principe	Wiley	Krishnamurthy
783H	X	X	X	X	No text			Clymer
793	X	X	X	X	No text			Klein
800			XO		Spectral Analysis of Signals, 2005	Stoica and Moses	Prentice-Hall	Moses
801					As listed for individual 801.xx sections.			
801.01	XO				Adaptive Filter Theory, 4th Ed., 2002 ISBN: 0-130-90126-1	Haykin	Prentice-Hall	Schniter
801.02		XO			Elements of Information Theory, 2nd Ed, 2006. ISBN: 0-471-24195-4	Cover & Thomas	Wiley	El-Gamal
		XO			Mathematical Theory of Communication, 1963. (Optional) ISBN 0-252-72548-4	Shannon & Weaver	Univ of Illinois Press	El-Gamal

<i>Course</i>	<i>Au</i>	<i>Wi</i>	<i>Sp</i>	<i>Su</i>	<i>Textbook</i>	<i>Author</i>	<i>Publisher</i>	<i>Supervisor</i>
802	XE				Spoken Language Processing: A Guide to Theory, Algorithm, and System Development, 2001 ISBN: 0-130-22616-5	X. Huang, A. Acero, and H-W. Hon	Prentice-Hall	Krishnamurthy
	XE				Notes from UniPrint			Krishnamurthy
803		XE			Error Control Systems for Digital Communication and Storage, 1995	Wicker, Stephen B.	Prentice-Hall	Takeshita
804	X				Probability, Random Variables and Stochastic Processes, 4th Ed., 2002 ISBN: 0-07-366011-6	Papoulis and Pillai	McGraw-Hill	Koksal
805		X			Probability, Random Variables and Stochastic Processes, 4th Ed., 2002 ISBN: 0-07-366011-6 (MSH from 804)	Papoulis and Pillai	McGraw-Hill	Moses
806			X		An Introduction to Signal Detection and Estimation, 2nd Ed.	H. V. Poor	Springer	Moses
807			XO		Fundamentals of Wireless Communication	Tse and Viswanath	Cambridge University	El-Gamal
808	XE				Elements of Information Theory, 1991	Cover, Thomas M.	Wiley	Potter
809			X		Principals of Digital Transmission Theory (Text change being considered for next offering.)	Benedeto	Kluwer	El-Gamal
810		X			No text			Lee, R
811			X		No text			Pathak
812			XO		No text			Rojas-Teran
813		XE			No text			Lee, R
814			XE		No text			Newman
815	XE				Antenna Theory, 2nd Ed., 1996	Balanis	Harper & Row	Lee, JF
816			XO		Wave Propagation and Scattering in Random Media, 1999 ISBN: 0-7803-4717-X (Wiley-IEEE)	Ishimaru	Wiley	Johnson
817			XO		Computational Electromagnetics (Texts in Applied Mathematics), 2005	Bondeson, Rylander, and Ingelstrom	Springer	Teixeira
819		XO			No text			Pathak
820			X		Notes from UniPrint			Ismail
831		XE			Fundamentals of Modern VLSI Devices, 1998 ISBN: 0-521-55959-6	Taur and Ning	Cambridge University	Valco
832			XE		High Speed Heterostructure Devices	P. Roblin and H. Rohdin	Cambridge University	Roblin
833		XO			Notes from UniPrint			Anderson

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835					As listed for individual 835.xx sections			Ringel
835.01		XO			No text			Ringel
835.02		XE			No text			Berger
835.03		XO			No text			Lu
842	XO				Dynamic Simulation of Electric Machinery Using Matlab / Simulink	Ong, C-M.	Prentice-Hall	Keyhani
844			XE		No text			Xu
845			XE		No text			Keyhani
850		XE			Fundamentals of Linear State Space Systems (MSH from 750) (Bookstore: must order from Primis custom publisher - entire book)	Bay, John	McGraw-Hill	Ozbay
851		XE			Dynamic Programming and Optimal Control, Vol. 1, 3rd Ed. ISBN: 1-886529-26-4	Bertsekas, D.	Athena Scientifica	Cruz
852			XE		No text			Passino
854		XO			Dynamic Optimization, 1999 (this text is optional)	A. Bryson, Jr.	Addison Wesley	Utkin
855		XE			No text			Ozguner, U
856		XO			Essentials of Robust Control, 1998	K. Zhou and J. Doyle	Prentice-Hall	Ozbay
857			XO		Nonlinear Systems, 3rd Ed. (MSH from 754) ISBN: 0-13-067389-7	Khalil, H.	Prentice-Hall	Serrani
858			XO		No text			Passino
859		XO			Sliding Modes in Control of Electromechanical Systems, 1999	Utkin, Guldner, and Shi	Taylor & Francis	Utkin
863			X		Computer Vision: A Modern Approach, 2003 ISBN: 0-13-085198-1 (MSH from 707)	Forsyth and Ponce	Prentice-Hall	Boyer
864			X		"Parallel Computer Architecture: A Hardware/Software Approach," 1999	Culler and Singh	Morgan Kaufmann	Ozguner, F
866		XE			No text			Zheng
867		XO			No text			Ekici
874			XO		Pattern Classification, 2nd Ed. ISBN: 0-471-05669-3	Duda, Hart & Stork	Wiley	Martinez
880					No text			
881	X	X	X	X	No text			
888	X	X	X	X	No text			Ahalt

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891					No text			Clymer
891.01	X	X	X		No text			Clymer
894	X	X	X		See individual 894 sections			
894G		X			Telecommunication Networks: Protocols, Modeling, and Analysis, 1987	M. Schwartz	Addison Wesley	Shroff, Ness
		X			Communication Networks, Fundamental Concepts and Key Architectures, 2nd Ed.	A. Leon-Garcia and I. Widjaja	McGraw-Hill	Shroff, Ness
894J			X		Communication Networks, Fundamental Concepts and Key Architectures, 2nd Ed. (MSH from 894G)	A. Leon-Garcia and I. Widjaja	McGraw-Hill	Shroff, Ness
			X		Telecommunication Networks: Protocols, Modeling, and Analysis, 1987 (MSH from 894G)	M. Schwartz	Addison Wesley	Shroff, Ness
894L		XO			No text			Xu
894P		XO			No text			Lee, JF
894R	XE				No text			Eryilmaz
894X			XE		No text			Ekici
894Z		XE			Analog Behavioral Modeling with the Verilog-A Language ISBN: 0-7923-8044-4	Fitzpatrick and Miller	Kluwer	Biby
910		XE			No text			Munk
917		XO			No text			Collins
993	X	X	X	X	No text			
999	X	X	X	X	No text			