

ECE Course #	Author	Title	Edition	ISBN#	Publisher
2020 (also @ Marion campus)	F. Ulaby and M. Maharbiz	Circuits (required)	3	9781934891223	NTS Press
2027	F. Ulaby and M. Maharbiz	Circuits (required)	3	9781934891223	NTS Press
2050	J. Proakis and D. Manolakis	Digital Signal Processing (recommended)	4 (any)	9780131873742	Prentice-Hall
2060 (also @ Marion campus)	Roth, Jr., Kinney	Fundamentals of Logic Design (required)	7	978 1133 62847 7	Cengage Learning
2067	Roth, Jr., Kinney	Fundamentals of Logic Design (required)	7	978 1133 62847 7	Cengage Learning
2193		no text			
2300	G. Rizzoni	Principles and Applications of Electrical Engineering (required)	6	9780073529592	McGraw-Hill
2560	J. Davies	MSP430 Microcontroller Basics (required) http://library.ohio-state.edu/record=b7519548~S7 (free)	1	978 0750682763	Newnes (Elsevier)
2998.01		no text			
2998.02		no text			
3010	F. Ulaby, E. Michielssen, and U. Ravaioli	Fundamentals of Applied Electromagnetics (required)	7	978 0133356816	Prentice-Hall
3020	A. Sedra and K. Smith	Microelectronic Circuits (required)	7	9780199339136	Oxford Univ. Press
3027		https://download.mikroe.com/documents/specials/educational/aslk-pro/aslk-pro-manual-v103.pdf%20 (free)			mikroe.com
3030	B. Streetman and S. Banerjee	Solid State Electronic Devices (required)	7	9780133356038	Pearson
3040	M. El-Sharkawi	Electric Energy: An Introduction (required) http://library.ohio-state.edu/record=b8030599~S7 (free)	3	9781466503038	CRC Press
3047		no text			
3050	A. Oppenheim and A. Willsky	Signals and Systems (required)	2	978 0138147570	Prentice-Hall
3090	J. Lannon and L. Gurak	Technical Communication (required)	14	9780134118499	Pearson
3551	R. Dorf and R. Bishop	Modern Control Systems (required)	13	9780134407623	Prentice-Hall
3557	S. Yurkovich (K. Passino)	Control Systems Laboratory (required)	2013	9781256614760	Pearson Custom Pub
3561	Roth, Jr., Kinney	Fundamentals of Logic Design (required)	7	978 1133 62847 7	Pearson
3567		no text			
3900	R.M. Ford and C.S. Coulston	Design for Electrical and Computer Engineers: Theory, Concepts, and Practice (required)	2008	9780073380353	McGraw-Hill
4021	T. Carusone, D. Johns, and K. Martin	Analog Integrated Circuit Design (required) - also for 5021 CMOS Circuit Design, Layout, and Simulation (recommended) https://library.ohio-state.edu/record=b8030298~S7 (free)	2 3	9780470770108 9780470881323	Wiley Wiley
4193		no text			

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4900	R.M. Ford and C.S. Coulston	Design for Electrical and Computer Engineers: Theory, Concepts, and Practice (required)	2008	9780073380353	McGraw-Hill
4900H	R.M. Ford and C.S. Coulston	Design for Electrical and Computer Engineers: Theory, Concepts, and Practice (required)	2008	9780073380353	McGraw-Hill
4901	R.M. Ford and C.S. Coulston	Design for Electrical and Computer Engineers: Theory, Concepts, and Practice (required)	2008	9780073380353	McGraw-Hill
4998.01		no text			
4998.01H		no text			
4998.02		no text			
4999.01		no text			
4999.01H		no text			
5000	M. Fitz	Fundamentals of Communications Systems (recommended) https://library.ohio-state.edu/search-S8?/aFitz%2C+Michael+P/afitz+michael+p/-3,-1,0,B/browse (free)	2007		McGraw-Hill
	R. Gallager	Principles of Digital Communication (recommended) http://www.mit.edu/~6.450/handouts/6.450book.pdf (free)	2008		Cambridge University Press (MIT OpenCourseWare)
5007	L. Potter and Y. Yang	A Digital Communication Laboratory: Acoustic Explorations with a Software-Defined Modem (free .pdf at Lulu.com)	2015		.pdf available free at Lulu.com
5010	Levis, Johnson, and Teixeira	Radiowave Propagation: Physics and Applications (required) http://library.ohio-state.edu/record=b7487590-S7 (free)	2010	9780470542958	Wiley
5011	C. A. Balanis	Antenna Theory: Analysis and Design (required) http://library.ohio-state.edu/record=b7966422-S7 (free)	4	9781118642061	Wiley
5012	K. Okamoto	Fundamentals of Optical Waveguides (required) http://library.ohio-state.edu/record=b7841671-S7 (free)	2	9780125250962	Academic Press
5013	M. Richards, J. Scheer, and W. Holm	Principles of Modern Radar: Basic Principles (required) http://library.ohio-state.edu/record=b7086524-S7 (free)	2010	9781891121524	SciTech (Stylus) Publishing
5017	D. Pozar	Microwave Engineering (required)	4	9780470631553	Wiley
5020	J. Rabaey, A. Chandrakasan, and B. Nikolic	Digital Integrated Circuits (required)	2	9780130909961	Prentice-Hall
5021	T. Carusone, D. Johns, and K. Martin	Analog Integrated Circuit Design (required) - also for 4021	2	9780470770108	Wiley
	R. J. Baker	CMOS Circuit Design, Layout, and Simulation (recommended) https://library.ohio-state.edu/record=b8030298-S7 (free)	3	9780470881323	Wiley
5022	K. McClaning	Wireless Receiver Design for Digital Communications (required) https://library.ohio-state.edu/record=b8030306-S7 (free)	2	9781891121807	Scitech Publications
5023	F. Maloberti	Data Converters (recommended)	2007	ASIN: B011DAZE4C	Springer
5025	Mohan, Undeland, and Robbins	Power Electronics: Converters, Applications, & Design (required)	3	9780471226932	Wiley
5027	G. Gonzalez	Microwave Transistor Amplifiers (required)	2	9780132543354	Prentice-Hall
5031	S. A. Campbell	Fabrication Engineering at the Micro- and Nanoscale (required)	4	9780199861224	Oxford Univ. Press

ECE Course #	Author	Title	Edition	ISBN#	Publisher
5033	L. Brillson	An Essential Guide to Electronic Material Surfaces and Interfaces (required) https://library.ohio-state.edu/record=b8027925-S7 (free)	2016	9781119027119	Wiley
5037	S. A. Campbell	Fabrication Engineering at the Micro- and Nanoscale (required)	4	9780199861224	Oxford Univ. Press
5041	Krause, Wasynczuk, and Pekarek	Electromechanical Motion Devices (required) http://library.ohio-state.edu/record=b7149817-S7 (free)	2	9781118296127	Wiley-IEEE Press
5042	Bergen and Vittal	Power Systems Analysis (required)	2	9780136919902	Prentice-Hall
5043	A.J. Conejo and L. Baringo	Power System Operations (required) https://link.springer.com/book/10.1007/978-3-319-69407-8 (free)	2018	9783319694061	Springer
5047		no text			
5070		no text			
5078	T. Byers, R. Dor, and A. Nelson	Technology Ventures: From Idea to Enterprise (required)	4	9780073523422	McGraw-Hill
5101		no text			
5120	Burns and Roberts	An Introduction to Mixed-Signal IC Test and Measurement (required)	2	9780199796212	Oxford Univ. Press
5127		no text			
5131	J. Verdeyen	Laser Electronics (required)	3	978 0137066667	Prentice-Hall
5132	B.E.A. Saleh and M.C. Teich	Fundamentals of Photonics (required)	2	9780471358329	Wiley
5194.09	S. L. Chuang E. F. Schubert	Physics of Photonic Devices (recommended) Light-Emitting Diodes (recommended)	2 2	9780470293195 9780521865388	Wiley Cambridge University Press
5194.11		no text			
5194.14	S. K. Schroder	Semiconductor Material and Device Characterization (required)	3	9780471739067	
5200	A. Oppenheim and R. Schafer	Discrete-Time Signal Processing (recommended)	3	9780131988422	Prentice-Hall
5206	Z-H. Cho	Foundations of Medical Imaging (required)	1993	9780471545736	Wiley
5207	A. Rich, L. Potter, and M. Riedl	Real-time Digital Signal Processing: Laboratory Exercises Using Simulink Support for the Raspberry Pi (free via course page)	2015		
5227	R. Erickson and D. Maksimovic Christopher Basso Christopher Basso	Fundamentals of Power Electronics (required) http://library.ohio-state.edu/record=b8030300-S7 (free) Switch-Mode Power Supplies: Spice Simulations and Practical Designs (recommended) Designing Control Loops for Linear and Switching Power Supplies (recommended) https://library.ohio-state.edu/record=b7501221-S7 (free)	2 2 2012	9781475705591 9780071823463 9781608075577	Springer McGraw-Hill Artech House
5234	B. Jayant Baliga	Gallium Nitride and Silicon Carbide Power Devices (required)	2017	9789813109407	World Scientific Publishing Co.
5237		no text			
5300	S. Raschka G. James, D. Witten, T. Hastie, R. Tibshirani	Python Machine Learning (recommended) An Introduction to Statistical Learning (recommended)	2 2017	9781787125933 9781461471370	Packt Publishing - ebooks Account Springer

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5362	Hamacher, Vranesic, Zaky and Manjikian	Computer Organization and Embedded Systems (required)	6	9780073380650	McGraw-Hill
5400	C. F. Dagnazo	Fundamentals of Transportation and Traffic Operations (required) https://library.ohio-state.edu/record=b8030301-S7 (free)	1997	9780080427850	Emerald Group Pub
5460	Forsyth and Ponce	Computer Vision: A Modern Approach (required)	2	9780136085928	Pearson
5462	Z. Navabi	VHDL: Modular Design and Synthesis of Cores and Systems (required)	3	9780071475457	McGraw-Hill
5463	K. Lynch and F. Park	Modern Robotics: Mechanics, Planning, and Control (required)	1	9781107156302	Cambridge University Press
5465	Muhammad Ahr and Kashif	ARM Microprocessor Systems Cortex-M Architecture, Programming, and Interfacing (required)	1	9781482259389	CRC Press
5466	M. Wolf	Computers as Components: Principles of Embedded Computing System Design (required)	4	9780128053874	Morgan Kaufmann
5510		no text			
5530	J. Davies	The Physics of Low-Dimensional Semiconductors (required) https://library.ohio-state.edu/search/X?SEARCH=9780521484916&SORT=D&searchscope=7&submit=Submit (free)	2009	978052148491 6	Cambridge University Press
5550		no text			
5551	Franklin, Powell, and Workman	Digital Control of Dynamic Systems (required)	3	9780979122613	Ellis-Kagle Press
5553		no text			
5554	Jurgen Franklin, Powell, and Workman	Automotive Electronics (recommended) Digital Control of Dynamic Systems (required)	1994 3	9780070331891 9780979122613	McGraw-Hill Ellis-Kagle Press
5557 (in limbo)		no text			
5560	K.K. Parhi	VLSI Digital Signal Processing Systems: Design and Implementation (required)	1999	9780471241867	Wiley
5759	D. Bertsekas	Nonlinear Programming (required)	3	9781886529052	Athena Scientifica
5832	O. Isabella, K. Jager, A. Smets, R. vanSwaaaij, M. Zerkov	Solar Energy: The Physics and Engineering of Photovoltaic Conversion Technologies and Systems - available via Kindle (free) or paperback (required) https://www.amazon.com/Solar-Energy-Engineering-Photovoltaic-Technologies-ebook-dp-B01CPN481G/dp/B01CPN481G/ref=mt_kindle?_encoding=UTF8&me=&qid=1559225095	2016	9781906860325 ASIN: B01CPN481G	UIT Cambridge Ltd. or Amazon Digital Services (free Kindle)
5833	G. Nisato, D. Lupo, and S. Ganz	Organic and Printed Electronics: Fundamentals and Applications (required) https://library.ohio-state.edu/record=b8030303-S7 (free)	2016	9789814669740	Pan Stanford
6001	D. Bertsekas and J. Tsitsiklis	Introduction to Probability (required)	2	9781886529236	Athena Scientifica
6010	C. A. Balanis	Advanced Engineering Electromagnetics (required)	2	9780470589489	Wiley
6011	C. Furse, D. Christensen, C. Durney, and J. Nagel	Basic Introduction to Bioelectromagnetics (required)	3	9781498780018	CRC Press
6030		no text			

ECE Course #	Author	Title	Edition	ISBN#	Publisher
6070	K. Schwalbe The Project Management Institute	An Introduction to Project Management, Revised (recommended) A Guide to the Project Management Body of Knowledge - PMBOK guide (recommended)	4 5	9780982800331 9781935589679	
6101	M. Schwartz A. Leon-Garcia and I. Widjaja	Telecommunication Networks: Protocols, Modeling and Analysis (required) Communication networks: Fundamental Concepts and Key Architectures (required)	1987 2	978 0201164237 978 0072463521	Prentice-Hall McGraw Hill
6102		no text			
6193		no text			
6194.05		no text			
6194.08		no text			
6194.09	N. Kimizuka, S. Yamazaki	Physics and Technology of Crystalline Oxide Semiconductor CAAC-IGZO: Fundamentals (required)	2016	9781119247401	Wiley
6194.10	L. Coldren, S. Corzine, and M. Masanovic	Diode Lasers and Photonic Integrated Circuits (required)	2	9780470484128	Wiley
6202	M. Hayes	Statistical Digital Signal Processing and Modeling (recommended)	1996	9780471594314	Wiley
6234		no text			
6511	R. Boyd	Nonlinear Optics (required)	3	978 0123694706	Elsevier Science
6531	U. Mishra and J. Singh	Semiconductor Device Physics and Design (required) https://library.ohio-state.edu/record=b6568915-S7 (free)	2008	9781402064807	Springer
6532	M. Ventra, S. Evoy, J.R. Heflin	Introduction to Nanoscale Science and Engineering (required)	2004	978 1402077203	Springer
6533	E.L. Dereniak and G.D. Boreman	Infrared Detectors and Systems (required)	1996	9780471122098	Wiley
6541	G. Masters	Renewable and Efficient Electric Power Systems (required) https://library.ohio-state.edu/record=b8030305-S7 (free)	2	9781118140628	Wiley-IEEE Press
6750	Antsaklis and Michel	A Linear Systems Primer (required) https://library.ohio-state.edu/record=b6523062-S7 (free)	2007	9780817644604	Birkhauser
6754	H.K. Khalil	Nonlinear Systems (required)	3	978 0130673893	Prentice-Hall
6999		no text			
7001	V. Poor	An Introduction to Signal Detection and Estimation (required)	2010	9781441928375	Springer
7003	D. Tse and P. Viswanath	Fundamentals of Wireless Communication (required)	2005	9780521845274	Cambridge University Press
7005	T. Cover and J. Thomas	Elements of Information Theory (required) https://library.ohio-state.edu/record=b7841669-S7 (free)	2	9780471241959	Wiley-Interscience
7010		no text			
7011		no text			

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7013 (in limbo)	F. Gini, A. DeMaio and L. Patton P. Stoica and J. Li	Waveform Design and Diversity for Advanced Radar Systems MIMO Radar Signal Processing	2011 2008	9781849192651 9780470178980	IET Wiley-IEEE Press
7020	M. Pelgrom	Analog-to-Digital Conversion (required)	3	9783319449708	Springer
7022	T. Lee	The Design of CMOS Radio-Frequency Integrated Circuits (required)	2	9780521835398	Cambridge University Press
7023		no text			
7027	F. Maloberti Carusone, Johns, and Martin	Data Converters (required) https://library.ohio-state.edu/record=b6821966-S7 (free) Integrated Circuit Design (recommended)	1 2	9780387324852 9780470770108	Springer Wiley
7032 (in limbo)		no text			
7100		no text			
7103	R. Gallager	Stochastic Processes: Theory for Applications (required)	2014	9781107039759	Cambridge University Press
7200	M. Vetterli, J. Kovacevic, and V. Goyal J. Kovacevic, V. Goyal, and M. Vetterli	Foundations of Signal Processing, and; Fourier and Wavelet Signal Processing (required) http://fourierandwavelets.org (free)			
7531	U. Pohl	Epitaxy of Semiconductors: Introduction to Physical Principles (required) https://library.ohio-state.edu/record=b7201207-S7 (free)	2013	9783642329692	Springer
7811	C. R. Paul	Introduction to Electromagnetic Compatibility (required) https://library.ohio-state.edu/record=b7966462-S7 (free)	2	9780471755005	Wiley
7813	C. A. Balanis	Antenna Theory: Analysis and Design (required) http://library.ohio-state.edu/record=b7966422-S7 (free)	4	9781118642061	Wiley
7814	A. Ishimaru	Wave Propagation and Scattering in Random Media (required)	1999	9780780347175	Wiley-IEEE Press
7821		no text			
7822	P. Roblin	Nonlinear RF Circuits and Nonlinear Vector Network Analyzers (required) http://library.ohio-state.edu/record=b7560618-S7 (free)	2011	9780521889957	Cambridge University Press
7831	P. Roblin	High Speed Heterostructure Devices (required) https://library.ohio-state.edu/record=b7560606-S7 (free)	2006	9780521024235	Cambridge University Press
7841		no text			
7842		no text			
7843		no text			
7850		no text			
7854	H.K. Khalil	Nonlinear Systems (required)	3	9780130673893	Prentice-Hall
7855 (in limbo)		no text			
7858		no text			
7859	Utkin, Guldner, and Shi	Sliding Mode Control in Electromechanical Systems (required)	2	9781420065602	CRC Press
7861 (in limbo)		no text			

ECE Course #	Author	Title	Edition	ISBN#	Publisher
7864		no text			
7866		no text			
7868		no text			
8001		no text			
8019		no text			
8101		no text			
8193		no text			
8194.03	M. Wolf	Computers as Components: Principles of Embedded Computing System Design (required)	3	9780123884367	Morgan Kaufman
8194.04		no text			
8201		no text			
8250	D. Kirk	Optimal Control Theory; An Introduction (required)	2004	9780486434841	Dover
8851		no text			
8861 (in limbo)		no text			
8862		no text			
8891		no text			
8898		no text			
8999		no text			