

ECE Course #	Supervisor (usually not the same as instructor)	Author	Title	Edition	ISBN#	Publisher
2020 (also @ Marion campus)	Fernandez-Puentes	F. Ulaby and M. Maharbiz	Circuits (required)	3	9781934891223	NTS Press
2027	Chapman	F. Ulaby and M. Maharbiz	Circuits (required)	3	9781934891223	NTS Press
2050	Clymer	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	Chapman	Roth, Jr., Kinney	Fundamentals of Logic Design (required)	7	978 1133 62847 7	Cengage Learning
2193			no text			
2300	Fernandez-Puentes	G. Rizzoni	Principles and Applications of Electrical Engineering (required)	6	9780073529592	McGraw-Hill
2560	Ekici	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	Teixeira	F. Ulaby, E. Michielssen, and U. Ravaioli	Fundamentals of Applied Electromagnetics (required)	7	978 0133356816	Prentice-Hall
3020	Bibyk	A. Sedra and K. Smith	Microelectronic Circuits (required)	7	9780199339136	Oxford Univ. Press
3027	Bibyk		https://download.mikroe.com/documents/specials/educational/aslk-pro/aslk-pro-manual-v103.pdf%20(free)			mikroe.com
3030	Roblin	B. Streetman and S. Banerjee	Solid State Electronic Devices (required)	7	9780133356038	Pearson
3040	Illindala	M. El-Sharkawi	Electric Energy: An Introduction (required) http://library.ohio-state.edu/record=b8030599-S7 (free)	3	9781466503038	CRC Press
3047	Illindala		no text			
3050	Serrani/Potter	A. Oppenheim and A. Willsky	Signals and Systems (required)	2	978 0138147570	Prentice-Hall
3090	Anderson	J. Lannon and L. Gurak	Technical Communication (required)	14	9780134118499	Pearson
3551	Serrani	R. Dorf and R. Bishop	Modern Control Systems (required)	13	9780134407623	Prentice-Hall
3557	Passino	S. Yurkovich (K. Passino)	Control Systems Laboratory (required)	2013	9781256614760	Pearson Custom Pub
3561	Ekici	Roth, Jr., Kinney	Fundamentals of Logic Design (required)	7	978 1133 62847 7	Pearson
3567	Chapman		no text			
3900	Fought	R.M. Ford and C.S. Coulston	Design for Electrical and Computer Engineers: Theory, Concepts, and Practice (required)	2008	9780073380353	McGraw-Hill
4021	Fayed	T. Carusone, D. Johns, and K. Martin R. J. Baker	Analog Integrated Circuit Design (required) - also for 5021 https://library.ohio-state.edu/record=b7514852-S8 (free) 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			
4900	Fought	R.M. Ford and C.S. Coulston	Design for Electrical and Computer Engineers: Theory, Concepts, and Practice (required)	2008	9780073380353	McGraw-Hill
4900H	Clymer	R.M. Ford and C.S. Coulston	Design for Electrical and Computer Engineers: Theory, Concepts, and Practice (required)	2008	9780073380353	McGraw-Hill
4901	Fought	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			

ECE Course #	Supervisor (usually not the same as instructor)	Author	Title	Edition	ISBN#	Publisher
4999.01			no text			
4999.01H			no text			
5000	Koksal	M. Fitz	Fundamentals of Communications Systems (recommended) https://library.ohio-state.edu/record=b6981475-S7 (free)	2007		McGraw-Hill
		R. Gallager	Principles of Digital Communication (recommended) http://www.mit.edu/~6.450/handouts/6.450book.pdf (free) or https://library.ohio-state.edu/record=b8583908-S7 (free)	2008		Cambridge University Press (MIT OpenCourseWare)
5007	Potter	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	Johnson	Levis, Johnson, and Teixeira	Radiowave Propagation: Physics and Applications (required) http://library.ohio-state.edu/record=b7487590-S7 (free)	2010	9780470542958	Wiley
5011	Volakis	C. A. Balanis	Antenna Theory: Analysis and Design (required) http://library.ohio-state.edu/record=b7966422-S7 (free)	4	9781118642061	Wiley
5012	Reano	K. Okamoto	Fundamentals of Optical Waveguides (required) http://library.ohio-state.edu/record=b7841671-S7 (free)	2	9780125250962	Academic Press
5013	Ertin	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	Roblin	D. Pozar	Microwave Engineering (required) https://library.ohio-state.edu/record=b8118203-S8 (free)	4	9780470631553	Wiley
5020	Bibyk	J. Rabaey, A. Chandrakasan, and B. Nikolic	Digital Integrated Circuits (required)	2	9780130909961	Prentice-Hall
5021	Fayed	T. Carusone, D. Johns, and K. Martin	Analog Integrated Circuit Design (required) - also for 4021 https://library.ohio-state.edu/record=b7514852-S8 (free)	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	Khalil	K. McClaning	Wireless Receiver Design for Digital Communications (required) https://library.ohio-state.edu/record=b8030306-S7 (free)	2	9781891121807	Scitech Publications
5023	Fayed	F. Maloberti	Data Converters (recommended) https://library.ohio-state.edu/record=b6821966-S8 (free)	2007	ASIN: B011DAZE4C	Springer
5025	Wang, J	Mohan, Undeland, and Robbins	Power Electronics: Converters, Applications, & Design (required)	3	9780471226932	Wiley
5027	Roblin	G. Gonzalez	Microwave Transistor Amplifiers (required)	2	9780132543354	Prentice-Hall
5031	W. Lu	S. A. Campbell	Fabrication Engineering at the Micro- and Nanoscale (required) https://library.ohio-state.edu/record=b7086944-S8 (free)	4	9780199861224	Oxford Univ. Press
5033	Brillson	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	Berger	S. A. Campbell	Fabrication Engineering at the Micro- and Nanoscale (required) https://library.ohio-state.edu/record=b7086944-S8	4	9780199861224	Oxford Univ. Press
5041	Xu	Krause, Wasynczuk, and Pekarek	Electromechanical Motion Devices (required) http://library.ohio-state.edu/record=b7149817-S7 (free)	2	9781118296127	Wiley-IEEE Press
5042	Wang, JK	Bergen and Vittal	Power Systems Analysis (required)	2	9780136919902	Prentice-Hall
5043	Conejo	A.J. Conejo and L. Baringo	Power System Operations (required) https://library.ohio-state.edu/record=b8412654-S8 (free)	2018	9783319694061	Springer
5047	Wang, J		no text			
5070	Guo		no text			
5078	Krishna, S	T. Byers, R. Dor, and A. Nelson	Technology Ventures: From Idea to Enterprise (required)	4	9780073523422	McGraw-Hill
5101	Shroff		no text			
5120	Bibyk	Burns and Roberts	An Introduction to Mixed-Signal IC Test and Measurement (required) https://library.ohio-state.edu/record=b7140038-S8 (free)	2	9780199796212	Oxford Univ. Press

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5127	Xu		no text			
5131	Anderson	J. Verdeyen	Laser Electronics (required)	3	978 0137066667	Prentice-Hall
5132	Anderson	B.E.A. Saleh and M.C. Teich	Fundamentals of Photonics (required) https://library.ohio-state.edu/record=b7855312-S8 (free)	2	9780471358329	Wiley
5194.09	Zhao, H	S. L. Chuang	Physics of Photonic Devices (recommended) <i>This text has been authorized for purchase of e-version by library. Will post URL when available.</i>	2	9780470293195	Wiley
		E. F. Schubert	Light-Emitting Diodes (recommended) https://library.ohio-state.edu/record=b7087196-S8 (free)	2	9780521865388	Cambridge University Press
5194.11	Ozbay, H		no text			
5194.14	Arafin, S	S. K. Schroder	Semiconductor Material and Device Characterization (required) https://library.ohio-state.edu/record=b8118156-S8 (free)	3	9780471739067	
5200	Schniter	A. Oppenheim and R. Schaffer	Discrete-Time Signal Processing (recommended)	3	9780131988422	Prentice-Hall
5206	Clymer	Z-H. Cho	Foundations of Medical Imaging (required)	1993	9780471545736	Wiley
5207	Potter	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	Fayed	R. Erickson and D. Maksimovic	Fundamentals of Power Electronics (required) http://library.ohio-state.edu/record=b8030300-S7 (free) <i>This text has been authorized for purchase of updated e-version by library. Will post URL when available.</i>	2	9781475705591	Springer
		Christopher Basso	Switch-Mode Power Supplies: Spice Simulations and Practical Designs (recommended)	2	9780071823463	McGraw-Hill
		Christopher Basso	Designing Control Loops for Linear and Switching Power Supplies (recommended) https://library.ohio-state.edu/record=b7501221-S7 (free)	2012	9781608075577	Artech House
5234	Agarwal	B. Jayant Baliga	Gallium Nitride and Silicon Carbide Power Devices (required) <i>This text has been authorized for purchase of e-version by library. Will post URL when available.</i>	2017	9789813109407	World Scientific Publishing Co.
5237	Berger		no text			
5300	Schniter	S. Raschka	Python Machine Learning (recommended) <i>This text has been authorized for purchase of e-version by library. Will post URL when available.</i>	2	9781787125933	Packt Publishing - ebooks Account
		G. James, D. Witten, T. Hastie, R. Tibshirani	An Introduction to Statistical Learning (recommended) https://library.ohio-state.edu/record=b8033232-S7 (free)	2013	9781461471370	Springer
5362	Wang, X	Hamacher, Vranesic, Zaky and Manjikian	Computer Organization and Embedded Systems (required)	6	9780073380650	McGraw-Hill
5400	Coifman	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	Martinez	Forsyth and Ponce	Computer Vision: A Modern Approach (required)	2	9780136085928	Pearson
5462	TBD	Z. Navabi	VHDL: Modular Design and Synthesis of Cores and Systems (required)	3	9780071475457	McGraw-Hill
5463	Zheng	K. Lynch and F. Park	Modern Robotics: Mechanics, Planning, and Control (required) http://hades.mech.northwestern.edu/index.php/Modern_Robotics (free)	1	9781107156302	Cambridge University Press
5465	Wang, X	Muhammad Ahr and Kashif	ARM Microprocessor Systems Cortex-M Architecture, Programming, and Interfacing (required) https://library.ohio-state.edu/record=b8762142-S7 (free)	1	9781482259389	CRC Press
5466	Wang, X	M. Wolf	Computers as Components: Principles of Embedded Computing System Design (required) https://library.ohio-state.edu/record=b8552292-S7 (free)	4	9780128053874	Morgan Kaufmann
5510	Lee, JF		no text			
5530	Berger	J. Davies	The Physics of Low-Dimensional Semiconductors (required) https://library.ohio-state.edu/record=b8407926-S7 (free)	2009	978052148491 6	Cambridge University Press
5550	Passino		no text			

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5551	Zhang, W	Franklin, Powell, and Workman	Digital Control of Dynamic Systems (required)	3	9780979122613	Ellis-Kagle Press
5553	Guvenc		no text			
5554	Rizzoni	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)	Passino		no text			
5560	Zhang, X	K.K. Parhi	VLSI Digital Signal Processing Systems: Design and Implementation (required)	1999	9780471241867	Wiley
5759	Gupta	D. Bertsekas	Nonlinear Programming (required)	3	9781886529052	Athena Scientifica
5832	Ringel	O. Isabella, K. Jager, A. Smets, R. vanSwaaij, M. Zern	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	Berger	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	Ekici	D. Bertsekas and J. Tsitsiklis	Introduction to Probability (required)	2	9781886529236	Athena Scientifica
6010	Teixeira	C. A. Balanis	Advanced Engineering Electromagnetics (required)	2	9780470589489	Wiley
6011	Kiourti	C. Furse, D. Christensen, C. Durney, and J. Nagel	Basic Introduction to Bioelectromagnetics (required) https://library.ohio-state.edu/record=b8484092-S7 (free)	3	9781498780018	CRC Press
6030	Ghalichechian		no text			
6070	Florentini / Villarroel	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) https://library.ohio-state.edu/record=b8539240-S7 (free)	4 5	9780982800331 9781935589679	
6101	Shroff	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	Ekici		no text			
6193			no text			
6194.05	Guo		no text			
6194.08	Agarwal		no text			
6194.09	Zhao, H	N. Kimizuka, S. Yamazaki	Physics and Technology of Crystalline Oxide Semiconductor CAAC-IGZO: Fundamentals (required) https://library.ohio-state.edu/record=b8082508-S7 (free)	2016	9781119247401	Wiley
6194.10	Arafin, S	L. Coldren, S. Corzine, and M. Masanovic	Diode Lasers and Photonic Integrated Circuits (required) https://library.ohio-state.edu/record=b7128505-S7 (free)	2	9780470484128	Wiley
6202	Schniter	M. Hayes	Statistical Digital Signal Processing and Modeling (recommended)	1996	9780471594314	Wiley
6234	Agarwal		no text			
6511	Reano	R. Boyd	Nonlinear Optics (required) https://library.ohio-state.edu/record=b7519811-S8 (free)	3	978 0123694706	Elsevier Science
6531	Rajan	U. Mishra and J. Singh	Semiconductor Device Physics and Design (required) https://library.ohio-state.edu/record=b6568915-S7 (free)	2008	9781402064807	Springer
6532	Lu	M. Ventra, S. Evoy, J.R. Heflin	Introduction to Nanoscale Science and Technology (required) https://library.ohio-state.edu/record=b7624984-S8 (free)	2004	9781402077203	Springer
6533	Krishna, S	E.L. Dereniak and G.D. Boreman	Infrared Detectors and Systems (required)	1996	9780471122098	Wiley

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6541	Wang/Xu	G. Masters	Renewable and Efficient Electric Power Systems (required) https://library.ohio-state.edu/record=b8030305-S7 (free)	2	9781118140628	Wiley-IEEE Press
6750	Serrani	Antsaklis and Michel	A Linear Systems Primer (required) https://library.ohio-state.edu/record=b6523062-S7 (free)	2007	9780817644604	Birkhauser
6754	Utkin	H.K. Khalil	Nonlinear Systems (required)	3	978 0130673893	Prentice-Hall
6999			no text			
7001	Koksal	V. Poor	An Introduction to Signal Detection and Estimation (required) <i>This text has been authorized for purchase of e-version by library. Will post URL when available.</i>	2010	9781441928375	Springer
7003	ElGamal	D. Tse and P. Viswanath	Fundamentals of Wireless Communication (required)	2005	9780521845274	Cambridge University Press
7005	ElGamal	T. Cover and J. Thomas	Elements of Information Theory (required) https://library.ohio-state.edu/record=b8572642-S7 (free)	2	9780471241959	Wiley-Interscience
7010	Teixeira		no text			
7011	Lee, JF		no text			
7013 (in limbo)	TBD	F. Gini, A. DeMaio and L. Patton	Waveform Design and Diversity for Advanced Radar Systems https://library.ohio-state.edu/record=b7176011-S7 (free)	2011	9781849192651	IET
		P. Stoica and J. Li	MIMO Radar Signal Processing https://library.ohio-state.edu/record=b8572640-S7 (free)	2008	9780470178980	Wiley-IEEE Press
7020	TBD	M. Pelgrom	Analog-to-Digital Conversion (required) https://library.ohio-state.edu/record=b8138595-S7 (free)	3	9783319449708	Springer
7022	Khalil	T. Lee	The Design of CMOS Radio-Frequency Integrated Circuits (required)	2	9780521835398	Cambridge University Press
7023	Musah		no text			
7027	Fayed	F. Maloberti	Data Converters (required) https://library.ohio-state.edu/record=b6821966-S7 (free)	1	9780387324852	Springer
		Carusone, Johns, and Martin	Integrated Circuit Design (recommended)	2	9780470770108	Wiley
7032	White		no text			
7100	Eryilmaz		no text			
7103	Koksal, Baker	R. Gallager	Stochastic Processes: Theory for Applications (required)	2014	9781107039759	Cambridge University Press
7200	Schniter	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	Myers	U. Pohl	Epitaxy of Semiconductors: Introduction to Physical Principles (required) https://library.ohio-state.edu/record=b7201207-S7 (free)	2013	9783642329692	Springer
7811	Lee, JF	C. R. Paul	Introduction to Electromagnetic Compatibility (required) https://library.ohio-state.edu/record=b7966462-S7 (free)	2	9780471755005	Wiley
7813	TBD	C. A. Balanis	Antenna Theory: Analysis and Design (required) http://library.ohio-state.edu/record=b7966422-S7 (free)	4	9781118642061	Wiley
7814	Johnson	A. Ishimaru	Wave Propagation and Scattering in Random Media (required) https://library.ohio-state.edu/record=b8118332-S7 (free)	1999	9780780347175	Wiley-IEEE Press
7821	Bibyk		no text			
7822	Roblin	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	Roblin	P. Roblin	High Speed Heterostructure Devices (required) https://library.ohio-state.edu/record=b7560606-S7 (free)	2006	9780521024235	Cambridge University Press
7841	Wang, J		no text			
7842	Xu		no text			
7843	Illindala		no text			
7850	Zhang, W		no text			

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7854	Serrani	H.K. Khalil	Nonlinear Systems (required)	3	9780130673893	Prentice-Hall
7855 (in limbo)	Ozguner		no text			
7858	Passino		no text			
7859	Utkin	Utkin, Guldner, and Shi	Sliding Mode Control in Electromechanical Systems (required)	2	9781420065602	CRC Press
7861 (in limbo)	Catalyurek		no text			
7864	TBD		no text			
7866	Martinez		no text			
7868	Martinez		no text			
8001	Schniter		no text			
8019	Teixeira		no text			
8101	Eryilmaz		no text			
8193			no text			
8194.03	Wang, X	M. Wolf	Computers as Components: Principles of Embedded Computing System Design (required) https://library.ohio-state.edu/record=b8552292-S7 (free)	3	9780123884367	Morgan Kaufman
8194.04	White, M		no text			
8201	Potter		no text			
8250	Utkin	D. Kirk	Optimal Control Theory: An Introduction (required) https://library.ohio-state.edu/record=b7391147-S7 (free)	2004	9780486434841	Dover
8851	Gupta		no text			
8861 (in limbo)	Martinez		no text			
8862	Wang, X		no text			
8891			no text			
8898			no text			
8999			no text			

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