

Course #	Supervisor	Author	Title	Edition	ISBN#	Publisher
2020	McPherson	F. Ulaby and M. Maharbiz	Circuits (2nd or 3rd edition is okay)	2 3	9781934891193 9781934891223	NTS Press
2021	Valco	F. Ulaby and M. Maharbiz	Circuits (2nd or 3rd edition is okay)	2 3	978 1934891193 9781934891223	NTS Press
2027	Valco	F. Ulaby and M. Maharbiz	Circuits (2nd or 3rd edition is okay)	2 3	978 1934891193 9781934891223	NTS Press
2050	Clymer	J. Proakis and D. Manolakis	Digital Signal Processing (recommended)	4 (any)	9.78013E+12	Prentice-Hall
2060	McPherson	Roth, Jr., Kinney	Fundamentals of Logic Design (For the eBook: https://www.cengagebrain.com/shop/ProductDisplay?langId=-1&storeId=10151&catalogId=10057&productId=614907 For the Kindle version: https://www.amazon.com/Fundamentals-Logic-Design-Charles-Roth-ebook/dp/B00BF3VHUS/ref=sr_1_1_twi_kin_2?ie=UTF8&qid=1470926015&sr=8-1&keywords=roth+logic+design)	7	9.78113E+12	Cengage Learning
2061	Valco	Roth, Jr., Kinney	Fundamentals of Logic Design (For the eBook: https://www.cengagebrain.com/shop/ProductDisplay?langId=-1&storeId=10151&catalogId=10057&productId=614907 For the Kindle version: https://www.amazon.com/Fundamentals-Logic-Design-Charles-Roth-ebook/dp/B00BF3VHUS/ref=sr_1_1_twi_kin_2?ie=UTF8&qid=1470926015&sr=8-1&keywords=roth+logic+design)	7	978 1133 62847 7	Cengage Learning
2067	Valco	Roth, Jr., Kinney	Fundamentals of Logic Design (For the eBook: https://www.cengagebrain.com/shop/ProductDisplay?langId=-1&storeId=10151&catalogId=10057&productId=614907 For the Kindle version: https://www.amazon.com/Fundamentals-Logic-Design-Charles-Roth-ebook/dp/B00BF3VHUS/ref=sr_1_1_twi_kin_2?ie=UTF8&qid=1470926015&sr=8-1&keywords=roth+logic+design)	7	978 1133 62847 7	Cengage Learning
2193			no text			
2300	McPherson	G. Rizzoni	Principles and Applications of Electrical Engineering	6	9780073529592	McGraw-Hill
2560	DeGroat	J. Davies	MSP430 Microcontroller Basics (paperback)	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	7	978 0133356816	Prentice-Hall
3020	Bibyk	A. Sedra and K. Smith	Microelectronic Circuits	7	9780199339136	Oxford Univ. Press
3027	Bibyk		on-line manual: http://www.mikroe.com/eng/downloads/get/1741/analog_system_lab_pro_manual.pdf			mikroe.com
3030	Roblin	B. Streetman and S. Banerjee	Solid State Electronic Devices	7	0133356035 9780133356038	Pearson
3040	Illindala	M. El-Sharkawi	Electric Energy: An Introduction	3	9781466503038	CRC Press
3047	Illindala		no text			
3050	Serrani/Potter	A. Oppenheim and A. Willsky	Signals and Systems	2	978 0138147570	Prentice-Hall
3080	Passino	Martin and Schinzinger	Ethics in Engineering	4	9780072831153	McGraw-Hill
3090	Anderson	J. Lannon and L. Gurak	Technical Communication	14	9780134118499	Pearson
3551	Serrani	R. Dorf and R. Bishop	Modern Control Systems	13	9780134407623	Prentice-Hall
3557	Passino	S. Yurkovich	Control Systems Laboratory	2013	9781256614760	Pearson Custom Pub

Course #	Supervisor	Author	Title	Edition	ISBN#	Publisher
3561	Ekici	M. Mano and M. Ciletti	Digital Design: With an Introduction to the Verilog HDL, VHDL, and System Verilog	6 (2018)	9780134549897	Pearson
3567	DeGroat		no text - materials online at http://u.osu.edu/ece3567			
3900	Redmill	R.M. Ford and C.S. Coulston	Design for Electrical and Computer Engineers: Theory, Concepts, and Practice	2008	9780073380353	McGraw-Hill
4021	Fayed	T. Carusone, D. Johns, and K. Martin	Analog Integrated Circuit Design (required) - also for 5021 CMOS Circuit Design, Layout, and Simulation (recommended)	2 3	9780470770108 9780470881323	Wiley Wiley
4193			no text			
4194.02	Schniter	S. Raschka G. James, D. Witten, T. Hastie, R. Tibshirani	Python Machine Learning An Introduction to Statistical Learning (optional)	2 2017	9781787125933 9781461671370	Packt Publishing - ebooks Account Springer
4900	Redmill	R.M. Ford and C.S. Coulston	Design for Electrical and Computer Engineers: Theory, Concepts, and Practice	2008	9780073380353	McGraw-Hill
4900H	Clymer	R.M. Ford and C.S. Coulston	Design for Electrical and Computer Engineers: Theory, Concepts, and Practice	2008	9780073380353	McGraw-Hill
4901	Redmill	R.M. Ford and C.S. Coulston	Design for Electrical and Computer Engineers: Theory, Concepts, and Practice	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	Koksal	Heath Jr., Robert Proakis and Salehi Madhow	on-line: Wireless Communications Digital Communications (recommended) Fundamentals of Digital Communication (recommended)	5 2008	9780072957167 9780521874144	McGraw-Hill Cambridge
5007	Potter	L. Potter and Y. Yang	A Digital Communication Laboratory: Acoustic Explorations with a Software-Defined Modem	2015		.pdf available free at Lulu.com
5010	Johnson	Levis, Johnson, and Teixeira	Radiowave Propagation: Physics and Applications	2010	9780470542958	Wiley
5011	Volakis	C. A. Balanis	Antenna Theory: Analysis and Design	4	9781118642061	Wiley
5012	Reano	K. Okamoto	Fundamentals of Optical Waveguides	2	9780125250962	Academic Press
5013	Smith	M. Richards, J. Scheer, and W. Holm	Principles of Modern Radar: Basic Principles	2010	9781891121524	SciTech (Stylus) Publishing
5017	Roblin	D. Pozar	Microwave Engineering	4	9780470631553	Wiley
5020	Bibyk	J. Rabaey, A. Chandrakasan, and B. Nikolic	Digital Integrated Circuits	2	9780130909961	Prentice-Hall
5021	Fayed	T. Carusone, D. Johns, and K. Martin R. J. Baker	Analog Integrated Circuit Design (required) - also for 4021 CMOS Circuit Design, Layout, and Simulation (recommended)	2 3	9780470770108 9780470881323	Wiley Wiley
5022	Khalil	K. McClaning	Wireless Receiver Design for Digital Communications	2	9781891121807	Scitech Publications
5025	Wang, J	Mohan, Undeland, and Robbins	Power Electronics: Converters, Applications, & Design	3	9780471226932	Wiley
5027	Roblin	G. Gonzalez	Microwave Transistor Amplifiers	2	9780132543354	Prentice-Hall
5031	W. Lu	S. A. Campbell	Fabrication Engineering at the Micro- and Nanoscale	4	9780199861224	Oxford Univ. Press
5033	Brillson	L. Brillson	An Essential Guide to Electronic Material Surfaces and Interfaces	2016	9781119027119	Wiley
5037	Valco	S. A. Campbell	Fabrication Engineering at the Micro- and Nanoscale	4	9780199861224	Oxford Univ. Press
5041	Xu	Krause, Wasynczuk, and Pekarek	Electromechanical Motion Devices	2	9781118296127	Wiley-IEEE Press

Course #	Supervisor	Author	Title	Edition	ISBN#	Publisher
5042	Wang, JK	Bergen and Vittal	Power Systems Analysis	2	9780136919902	Prentice-Hall
5043	Conejo	A. Gomez Esposito, A.J. Conejo, C. Canizares D.P. Kothari, I.J. Nagrath	Electric Energy Systems: Analysis and Operation (recommended) Modern Power System Analysis (recommended) - out of print	1 4	9780849373657 9780073404554	CRC Press McGraw-Hill
5047	Wang, J		no text			
5070	Guo		no text			
5101	Shroff		no text			
5120	Bibyk	Burns and Roberts	An Introduction to Mixed-Signal IC Test and Measurement	2	9780199796212	Oxford Univ. Press
5127	Xu		class notes and lab manual provided by department			
5131	Anderson	J. Verdeyen	Laser Electronics (paperback)	3	978 0137066667	Prentice-Hall
5132	Anderson	B.E.A. Saleh and M.C. Teich	Fundamentals of Photonics	2	9780471358329	Wiley
5137	Anderson		no text			
5194.07	Agarwal	B. Jayant Baliga	Gallium Nitride and Silicon Carbide Power Devices	2017	9789813109407	World Scientific Publishing Co.
5194.08	Zhang, X	K.K. Parhi	VLSI Digital Signal Processing Systems: Design and Implementation	1999	9780471241867	Wiley
5194.09	Zhao, H	S. L. Chuang E. F. Schubert	Physics of Photonic Devices (recommended) Light-Emitting Diodes (recommended)	2 2	9780470293195 9780521865388	Wiley Cambridge University Press
5194.10	Krishna, S	E.L. Dereniak and G.D. Boreman	Infrared Detectors and Systems (NEEDS NEW TEXT FOR NEXT OFFERING - NO LONGER AVAILBLE)	1996	9780471122098	Wiley
5194.11	Ozbay, H		no text			
5194.12	Fayed	T. Carusone, D. Johns, and K. Martin	Analog Integrated Circuit Design (required) - also for 4021 and 5021 CMOS Circuit Design, Layout, and Simulation (recommended)	2 3	9780470770108 9780470881323	Wiley Wiley
5194.13	Krishna, S	T. Byers, R. Dor, and A. Nelson	Technology Ventures: From Idea to Enterprise	4	9780073523422	McGraw-Hill
5200	Schniter	A. Oppenheim and R. Schafer	Discrete-Time Signal Processing	3	9780131988422	Prentice-Hall
5206	Clymer	Z-H. Cho	Foundations of Medical Imaging	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	2015		available via course page
5227	Fayed	R. Erickson and D. Maksimovic Christopher Basso Christopher Basso	Fundamentals of Power Electronics Switch-Mode Power Supplies: Spice Simulations and Practical Designs (recommended) Designing Control Loops for Linear and Switching Power Supplies (recommended)	2 2 2012	9781475705591 9780071823463 9781608075577	Springer McGraw-Hill Artech House
5237	Berger		no text			
5362	Wang, X	Hamacher, Vranesic, Zaky and Manjkian	Computer Organization and Embedded Systems	6	9780073380650	McGraw-Hill
5400	Coifman	C. F. Dagnazo	Fundamentals of Transportation and Traffic Operations	1997	9780080427850	Emerald Group Pub
5460	Martinez	Forsyth and Ponce	Computer Vision: A Modern Approach	2	9780136085928	Pearson
5462	DeGroat	Z. Navabi	VHDL: Modular Design and Synthesis of Cores and Systems	3	9780071475457	McGraw-Hill
5463	Zheng	K. Lynch and F. Park	Modern Robotics: Mechanics, Planning, and Control (Prior to Sp18: Introduction to Robotics: Mechanics and Control by J.J. Craig, 4th ed, 9780133489798)	1	9781107156302	Cambridge University Press
5465	Wang, X		no text			
5510	Lee, JF		no text			
5530	Berger	J. Davies	The Physics of Low-Dimensional Semiconductors	2009	978052148491 6	Cambridge University Press
5550	Passino		no text			

Course #	Supervisor	Author	Title	Edition	ISBN#	Publisher
5551	Zhang, W	Franklin, Powell, and Workman	Digital Control of Dynamic Systems	3	9780979122613	Ellis-Kagle Press
5553	Redmill	U. Ozguner, T. Acarman and K. Redmill	Autonomous Ground Vehicles	2011	9781608071920	Artech House ITS Library
5554	Rizzoni	Jurgen Franklin, Powell, and Workman	Automotive Electronics (recommended) Digital Control of Dynamic Systems (required)	1994 3	978 0070331891 978 0979122613	McGraw-Hill Ellis-Kagle Press
5557	Passino		no text			
5759	Gupta	D. Bertsekas	Nonlinear Programming	2	9781886529007	Athena Scientifica
5832	Ringel	J. Nelson	The Physics of Solar Cells (optional)	2003	9781860943492	Imperial College Press
5833	Berger	G. Nisato, D. Lupo, and S. Ganz	Organic and Printed Electronics: Fundamentals and Applications	2016	9789814669740	Pan Stanford
6001	Ekici	D. Bertsekas and J. Tsitsiklis	Introduction to Probability	2	9781886529236	Athena Scientifica
6010	Teixeira	C. A. Balanis	Advanced Engineering Electromagnetics	2	9780470589489	Wiley
6030	Ghalichechian		no text			
6070	Fiorentini / 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)	4 5	9780982800331 9781935589679	
6101	Shroff	M. Schwartz A. Leon-Garcia and I. Widjaja	Telecommunication Networks: Protocols, Modeling and Analysis Communication networks: Fundamental Concepts and Key Architectures	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	2016	9781119247401	Wiley
6202	Schniter	M. Hayes	Statistical Digital Signal Processing and Modeling	1996	978-0471594314	Wiley
6511	Reano	R. Boyd	Nonlinear Optics	3	978 0123694706	Elsevier Science
6531	Rajan	U. Mishra and J. Singh	Semiconductor Device Physics and Design	2007	978 1402064807	Springer
6532	Lu	M. Ventra, S. Evoy, J.R. Heflin	Introduction to Nanoscale Science and Engineering	2004	978 1402077203	Springer
6541	Wang/Xu	G. Masters	Renewable and Efficient Electric Power Systems	2	9781118140628	Wiley-IEEE Press
6750	Serrani	Antsaklis and Michel	A Linear Systems Primer	2007	978 0817644604	Birkhauser
6754	Utkin	H.K. Khalil	Nonlinear Systems	3	978 0130673893	Prentice-Hall
6999			no text			
7001	Koksal	V. Poor	An Introduction to Signal Detection and Estimation	2010	978 1441928375	Springer
7003	ElGamal	D. Tse and P. Viswanath	Fundamentals of Wireless Communication	2005	9780521845274	Cambridge University Press
7005	ElGamal	T. Cover and J. Thomas	Elements of Information Theory	2	9780471241959	Wiley-Interscience
7010	Teixeira		no text			
7011	Lee, JF		no text			

Course #	Supervisor	Author	Title	Edition	ISBN#	Publisher
7013 (in limbo)	Smith	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	Chen, V	M. Pelgrom	Analog-to-Digital Conversion	3	9783319449715	Springer
7022	Khalil	T. Lee	The Design of CMOS Radio-Frequency Integrated Circuits	2	9780521835398	Cambridge University Press
7027	Fayed	F. Maloberti Carusone, Johns, and Martin	Data Converters Integrated Circuit Design (recommended)	1 2	9780387324852 9780470770108	Springer Wiley
7032	White		no text			
7080	Passino	Martin and Shinzinger	Ethics in Engineering	4	9780072831153	McGraw-Hill
7100	Eryilmaz		no text			
7103	Koksai, Baker	R. Gallager	Stochastic Processes: Theory for Applications	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 (on-line @ http://fourierandwavelets.org) Fourier and Wavelet Signal Processing (on-line @ http://fourierandwavelets.org)			
7531	Myers	U. Pohl	Epitaxy of Semiconductors: Introduction to Physical Principles	2013	on-line at osu.worldcat.org	Springer
7811	Lee, JF	C. R. Paul	Introduction to Electromagnetic Compatibility	2	9780471755005	Wiley
7813	Volakis	C. A. Balanis	Antenna Theory: Analysis and Design	4	9781118642061	Wiley
7814	Johnson	A. Ishimaru	Wave Propagation and Scattering in Random Media	1999	9780780347175	Wiley-IEEE Press
7821	Bibyk		no text			
7822	Roblin	P. Roblin	Nonlinear RF Circuits and Nonlinear Vector Network Analyzers	2011	9780521889957	Cambridge University Press
7831	Roblin	P. Roblin	High Speed Heterostructure Devices	2006	9780521024235	Cambridge University Press
7841	Wang, J		no text			
7842	Xu		no text			
7843	Illindala		no text			
7850	Zhang, W		no text			
7854	Serrani	H.K. Khalil	Nonlinear Systems	3	9780130673893	Prentice-Hall
7855	Ozguner		no text			
7858	Passino	K. Passino	Biomimicry for Optimization, Control, and Automation	2005	9781852338046	Springer
7859	Utkin	Utkin, Guldner, and Shi	Sliding Mode Control in Electromechanical Systems	2	9781420065602	CRC Press
7861	Catalyurek		no text			
7864	Ozguner, F		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	3	9780123884367	Morgan Kaufman

Course #	Supervisor	Author	Title	Edition	ISBN#	Publisher
8194.04	White, M		no text			
8195.05	Rajan					
8201	Potter		no text			
8250	Utkin		no text			
8861 (in limbo)	Martinez		no text			
8862	Ozguner, F		no text			
8891			no text			
8898			no text			
8999			no text			