

Alphabetical by Last Name of Instructor

Professor Last Name	Course	Quantity	Course Name	Title	Author	Publisher	Edition
Tzavelis	CE 121	25	Structural Engineering I	Structural Analysis	Hibbeler	Prentice Hall	8, or latest
Yapijakis	CE141	20	Environmental System Engineering	Waste and Waste Water Technology	Hammer & Hammer	Pearson	7
Guido	CE331	15	Foundation Engineering	Principles of Foundation Engineering	Braja Das	Cengage	7
Ahmad	CE342	25	Design of Reinforced Concrete	Design of Reinforced Concrete	McCormac and Brown	Wiley	9
Guido	CE433	10	Adv Topics in Geotech Engr.	Principles of Foundation Engineering	Braja Das	Cengage	7
Cataldo	CE444	12	Hydraulics	Introduction to Hydrology	Viessman & Lewis	Prentice Hall	5
Viola	CE481	20	Bridge Engineering	Bridge Engineering	Zhao & Tonia	McGraw Hill	latest
Newmark	Ch110	100	General Chemistry	General Chemistry	Hill, Prentice, McCreary, and Per	Pearson	4
Newmark	Ch111	50	Chemistry Lab	Fundamentals of Analytical Chemistry	Skoog, West, Holler, and Crouch	Brooks/Cole	8
Topper	Ch160	50	Physical Princ of Chem	Physical Chemistry for the Chemical and Biological Sciences	Raymond Change	University Science Books	2000
Savizky	Ch231	30	Organic Chemistry I	Organic Chemistry	Klein	Wiley	1 or 2
Savizky	Ch251	30	Instrumental Analysis Lab	Principles of Instrumental Analysis	Skoog, Holler and Crouch	Thomson	6
Topper	Ch261	30	Physical Chem I	Quantum Chemistry	McQuarrie	University Science Books	2
Savizky	Ch340	16	Biochemistry	Biochemistry	Berg, Tymoczko, Stryer	Freeman	6 or 7
Brazinsky	ChE131	30	Advanced Chem Eng Thermo	The Principles of Chemical Equilibrium	Denbigh, Kenneth	Cambridge Univ Press	4
Davis	ChE142	23	Separation Process Principles	Separation Process Principles	Seader, Henley, and Roper	Wiley	3
Okorafor	ChE152	25	Process Dynamics and Control	Chemical and Bio-Process Control	Riggs and Karim	Ferret Publishing	latest
Stock	ChE161.1	26	Process Eval/Chem Sys Design	Analysis, Synthesis and Design of Chemical Processess	Turton, Bailie, Whiting, Shaeiwit	Prentice Hall	4
Davis	ChE421	7	Adv Chem Reaction Eng.	Chemical Reactor Design, Optimization, and Scaleup	Nauman	Wiley	2
Davis	ChE488/EID488	12	Convex Optimization	An Introduction to Optimization	Chong and Zak	Wiley	4
Kirtman	ECE193	30	Electrical & Computer Eng'g Projects	Art of Electronics Student Manual	Hayes & Horowitz	Cambridge Univ. Press	
Keene	ECE300	30	Communication Theory	Digital Communications	J Proakis	McGraw Hill	5
Shinners	ECE320	25	Control Systems	Modern Control System Theory and Design	Stanley Shinners	Wiley	2
Shinners	ECE332	20	Electromechanical Energy Conversion	Circuits, Devices, and Systems	Ralph Smith and Richard Dorf	Wiley	5
Keene	ECE414	25	Machine Learning	Pattern Recognition and Machine Learning	Bishop	Springer	1
Hausman	ECE431	10	Microwave Engineering	Microwave Engineering	Pozar	Wiley	4
Berenbaum	ECE453	7	Adv Computer Arch	Computer Architecture: A Quantitative Approach	John Hennessy and David Patters	Morgan Kaufmann	5
Tzavelis	EID 101	25	Engineering Design and Problem-Solving	Engineering Design Process	Haik and Shahin	Cengage Learning	2011 (or latest)
Wootton, Cumberbatch, P	EID 101C	75	Engineering Design and Problem-Solving	Engineering by Design	Gerard Volland	Pearson Prentice Hall	2
Barrett	EID170	30	Engineering Economy	Fundamentals of Engineering Economics	Park	Pearson/Prentice Hall	2
Tandon	EID327	10	Tissue Engineering	Supercells: building with Biology	Tandon & Joachim	TED books	
Barrett	EID370	30	Engineering Management	Management	Pearce and Robinson	McGraw Hill	
Synnott	EID374	10	Business Economics	How the Economy Works	Edmund A. Menis	NY Institute of Finance	2 (1999)
Wootton	ESC 140M	25	Fluid Mechanics and Flow Systems	Introduction to Fluid Mechanics	Fox, R.; McDonald, A.; Pritchard	John Wiley & Sons	6 or later
Panayotidi/TBD	ESC100C&M	60	Engineering Mechanics	Vector Mechanics: Statics and Dynamics	Beer/Johnston	McGraw Hill	10
Okorafor	ESC110.1	25	Material Sciences for Chem Eng.	Foundations of Material Sciences and Eng'g	Smith & Hashemi	McGraw Hill	latest
Ungar	ESC120K/121K	25	Principles of Electrical Engineering	Introduction to Electrical Engineering	CR Paul, SA Nassar, LE Unnewehr	McGraw Hill	1992
TBD	ESC130M	30	Engineeirng Thermodynamics	Thermodynamics: An Engineering Approach	Cengel, Boles	McGraw Hill	7
Cataldo	ESC140	30	Fluid Mechanics and Flow Systems	Mechanics of Fluids	Irving H. Shames	McGraw Hill	4
Okorafor	ESC170	25	Material and Energy Balances	Elementary Principles of Chemical Processes	Felder and Rousseau	Wiley	latest
Kumarsen/Slome	Ma 240	30	ODE/PDE	Differential Equations with Boundary-Value Problems	Zill, D; Cullen, M	Cengage	8, 2009
Slome/Kumarsen	Ma 240	50	ODE/PDE	Differential Equations with Boundary-Value Problems	Zill, D; Cullen, M	Cengage	8
Mintchev	Ma110	100	Intro to Linear Algebra	Elementary Linear Algebra	Anton	Wiley	10
Vulakh, Mintchev, Bailyn,	Ma111	100	Calculus I	Thomas' Calculus	Weir, Hass	Addison-Wesley	12
Vulakh	Ma113	30	Calculus II	Thomas' Calculus	Weir, Hass	Addison-Wesley	12
Agrawal	Ma224	60	Probability	Probability and Statistical Inference	Hogg, Tamis & Zimmerman	Prentice Hall	9
Mintchev	Ma326	25	Linear Algebra	Linear Algebra	Friedberg, Insel & Spence	Pearson	4
Agrawal	Ma336	15	Mathematical Statistics	Intro. To Mathematical Statistics	Hogg, McKean & Craig	Prentice Hall	7
Agrawal	Ma336	15	Mathematical Statistics	Statistical Inference	Casella & Berger	Cengage Learning	2
Luchtenberg	ME151	30	Feedback Control Systems	Feedback Systems: An Intro. For Scientists and Engineers	Astrom & Murray	Princeton Univ. Press	
Wei	ME312	30	Manufacturing Engineering	Manufacturing Engineering and Technology	Kalpajian and Schmid	Prentice Hall	7
Bondi	ME408	10	Intro to CAE	Finite Element Analysis: Theory and Applications with Ansys	S. Moaveni	Prentice Hall	4
Sidebotham	ME434	20	Rocket Science	Gas Dynamics	Zucker	Wiley	2
Wootton	ME440/ChE440/EID440	14	Advanced Fluids	Viscous Fluid Flow	White, Frank	McGraw Hill	3
Kreis	Ph165	20	Concepts of Physics	College Physics	Serway & Faughn	Thomson/Brooks Coile	5 or 6

RECOMMENDED TEXTS

Kirtman	ECE193	30	Electrical & Computer Eng'g Projects	Art of Electronics	Horowitz & Hill	Cambridge Univ. Press	2
Kirtman	ECE161	30	Programming Languages	The C Programming Language	Kernighan & Ritchie	Prentice Hall	2
Luchtenberg	ME151	30	Feedback Control Systems	Feedback Control of Dynamic Systems	Franklin, Powell & Emani-Naeini	Prentice Hall	6

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Agrawal	Ma336	15	Mathematical Statistics	Intro. To Mathematical Statistics	Hogg, McKean & Craig	Prentice Hall	7
Agrawal	Ma336	15	Mathematical Statistics	Statistical Inference	Casella & Berger	Cengage Learning	2
Agrawal	Ma224	60	Probability	Probability and Statistical Inference	Hogg, Tamsis & Zimmerman	Prentice Hall	9
Ahmad	CE342	25	Design of Reinforced Concrete	Design of Reinforced Concrete	McCormac and Brown	Wiley	9
Barrett	EID170	30	Engineering Economy	Fundamentals of Engineering Economics	Park	Pearson/Prentice Hall	2
Barrett	EID370	30	Engineering Management	Management	Pearce and Robinson	McGraw Hill	
Berenbaum	ECE453	7	Adv Computer Arch	Computer Architecture: A Quantitative Approach	John Hennessy and David Patterson	Morgan Kaufmann	5
Bondi	ME408	10	Intro to CAE	Finite Element Analysis: Theory and Applications with Ansys	S. Moaveni	Prentice Hall	4
Brazinsky	ChE131	30	Advanced Chem Eng Thermo	The Principles of Chemical Equilibrium	Denbigh, Kenneth	Cambridge Univ Press	4
Cataldo	ESC140	30	Fluid Mechanics and Flow Systems	Mechanics of Fluids	Irving H. Shames	McGraw Hill	4
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Kreis	Ph165	20	Concepts of Physics	College Physics	Serway & Faughn	Thomson/Brooks Coile	5 or 6
Kumarsen/Slome	Ma 240	30	ODE/PDE	Differential Equations with Boundary-Value Problems	Zill, D; Cullen, M	Cengage	8, 2009
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Synnott	EID374	10	Business Economics	How the Economy Works	Edmund A. Menis	NY Institute of Finance	2 (1999)
Tandon	EID327	10	Tissue Engineering	Supercells: building with Biology	Tandon & Joachim	TED books	
TBD	ESC130M	30	Engineeirng Thermodynamics	Thermodynamics: An Engineering Approach	Cengel, Boles	McGraw Hill	7
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Yapijakis	CE141	20	Environmental System Engineering	Waste and Waste Water Technology	Hammer & Hammer	Pearson	7

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Kirtman	ECE161	30	Programming Languages	The C Programming Language	Kernighan & Ritchie	Prentice Hall	2
Luchtenberg	ME151	30	Feedback Control Systems	Feedback Control of Dynamic Systems	Franklin, Powell & Emani-Naeini	Prentice Hall	6