

SCHOOL OF ENGINEERING AND COMPUTER SCIENCE Mechanical Engineering textbooks – Spring semester 2010

Course	Instructor	Book No.	Author	Title	Publisher	Edition	ISBN	Required or Recommended
Mech 103	Silva		<u>No textbook required for this course</u>					
Mech 212	Rad	1.	Beer & Johnston	Engineering Mechanics, Statics and Dynamics, Combined (Part two of this textbook being used from Mech 211)	McGraw-Hill	9th	9780077275556	Req'd.
Mech 215	Rad	1.	Beer, Johnston, DeWolf, and Mazurek	Mechanics of Materials	McGraw-Hill	5 <sup>th</sup> (09)	9780077221409	Req'd.
Mech 310	Kim	1.	Schey, John A.	Introduction to Manufacturing Processes	McGraw-Hill	3rd	9780070311367	Req'd.
Mech 348	Rad	1.	Ogata, K.	System Dynamics	Prentice-Hall/Pearson	4 <sup>th</sup> (04)	9780131424629	Req'd.
Mech 402	Solovitz	1.	Moran, Shapiro, Munson, & DeWitt	Intro to Thermal Systems Engineering: Thermodynamics, Fluid Mechanics, and Heat Transfer	Wiley	Sept 2002	9780471204909	Recommended
Mech 404	Roedts	1.	F.P. Incropera, D.P DeWitt, T.L. Bergman, A.S. Lavine	Fundamentals of Heat and Mass Transfer	Wiley & Sons	6 <sup>th</sup>	9780471457282	Req'd.
Mech 405	Talley	1.	Harlan Talley	Microcontroller Programming for Engineers	LuLu.com	2nd	9780557095704	Recommended
Mech 414	Rad	1.	Shigley, J., Budynas, R.	Mechanical Engineering Design ** (this text is a continuation from MECH 314) Item #2	McGraw-Hill	8 <sup>th</sup>	9780073312606	Req'd.

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Mech 417	Chen		<u>No textbook required for this course</u>					
Mech 431	Xue	1.	Streetman and Banerjee	Solid State Electronic Devices	Prentice Hall	6th	9780131497269	Req'd.
Mech 450/550	Xue	1.	Madou, Marc J.	Fundamentals of Microfabrication: The Science of Miniaturization	CRC Press	2 <sup>nd</sup>	9780849308260	Req'd.
Mech 468/568	Gurocak	1.	Craig, John J.	Introduction to Robotics: Mechanics and Control, 3/E	Prentice Hall	2005	9780201543613	Req'd.
Mech 485	Chen	1.	Moaveni, Saeed	Finite Element Analysis Theory and Application with ANSYS	Prentice Hall	3rd	9780131890800	Req'd.
Mech 489/589	Kim	1.	Dowling, Norman E.	Mechanical Behavior of Materials: Engineering Methods for Deformation, Fracture, and Fatigue	Prentice Hall	3 <sup>rd</sup>	9780131863125	Req'd.
Mech 521	Solovitz	1.	White, F.M.	Viscous Fluid Flow	McGraw-Hill	3 <sup>rd</sup>	9780072402315	Req'd.