

MMAE Book List - Fall 2010

Course #	Course Title	Instructor	Author (s)	Title	Edition	Publisher	ISBN
MMAE100	Introduction to the Profession	Clack, Gosz, Vural	NO TEXT REQUIRED	NO TEXT REQUIRED	N/A	N/A	N/A
MMAE200	Introduction to Mechanics	Cammino	Hibbeler	Engineering Mechanics - Statics & Dynamics	11th or 12th	Pearson	978-0-1-3221509-1 or 978-0-1-38149290-1
MMAE201	Mechanics of Solids I	Meade, Wu	Beer & Johnston	Vector Mechanics for Engineers - Statics	9th	McGraw-Hill	978-0-077-27556-3
MMAE202	Mechanics of Solids II	Cammino	Beer, Johnston, Dewolf, & Mazurek	Mechanics of Materials	5th	McGraw-Hill	978-0-077-22140-9
MMAE305	Dynamics	Spenko	Mitiguy	Dynamics for Mechanical, Aerospace, and Biomedical Systems <i>be purchased from author's website - not yet available)</i>	(To N/A	Published by Author	Website Address TBD
MMAE310	Fluid Mechanics with Lab	Wark	Munson, Young, Okishi, & Huebach	Fundamentals of Fluid Mechanics	6th	Wiley	978-0-470-26284-9
MMAE311	Compressible Flow	Nagib	Zucker & Biblarz	Fundamentals of Gas Dynamics	2nd	Wiley	978-0-471-05967-6
MMAE312	Aerodynamics of Aerospace Vehicles	Rempler	Bertin & Cummings	Aerodynamics for Engineers	5th	Prentice Hall	978-0-132-27268-1
MMAE313	Fluid Mechanics without Lab	Wark	Munson, Young, Okishi, & Huebach	Fundamentals of Fluid Mechanics	6th	Wiley	978-0-470-26284-9
MMAE315	Aerospace Laboratory I	Williams	Kaplan & White	Hands-On Electronics	1st	Cambridge University Press	978-0-521-89351-0
MMAE320	Thermodynamics	Ruiz	Cengel & Boles	Thermodynamics: an Engineering Approach - w/DVD	6th	McGraw Hill	978-0-073-30537-0
MMAE322	Heat and Mass Transfer	Clack	Incropera, DeWitt, Bergman, & Lavine	Fundamentals of Heat & Mass Transfer	6th	Wiley	978-0-471-45728-2
MMAE350	Computational Mechanics	Meade	Gilat & Subramaniam	Numerical Methods for Engineers & Scientists	2nd	Wiley	978-0-470-56615-5
MMAE365 (1)	Structure & Properties of Materials I	Nash	Gaskell	Introduction to the Thermodynamics of Materials	3rd	Taylor & Francis	978-1-591-69043-6
MMAE365 (2)	Structure & Properties of Materials I	Nash	Abbaschian & Reed-Hill	Physical Metallurgy Principles	4th	CL_Engineering	978-0495082545
MMAE370	Materials Laboratory I	Tin	NO TEXT REQUIRED	NO TEXT REQUIRED	N/A	N/A	N/A
MMAE371	Engineering Materials & Design	Mostovoy	Dovling	Mechanical Behavior of Materials	3rd	Prentice Hall	978-0-131-86312-5
MMAE426 (1)	Nuclear, Fossil Fuel, and Sustainable Energy Systems	Ostrogorsky	Babcock & Wilcox	Steam: Its Generation & Use	39th or earlier	Babcock & Wilcox Company	978-1-603-86021-5 (38th)
MMAE426 (2)	Nuclear, Fossil Fuel, and Sustainable Energy Systems	Ostrogorsky	Weston	Energy Conversion: The eBook (http://www.personal.utulsa.edu/~kenneth-weston)	1st	Free online	N/A
MMAE426 (3)	Nuclear, Fossil Fuel, and Sustainable Energy Systems	Ostrogorsky	Lienhardt	A Heat Transfer Textbook (http://web.mit.edu/lienhard/www/ahtt.html)	3rd	Free online	N/A
MMAE430	Engineering Measurements	Mansy	Figliola & Beasley	Theory and Design for Mechanical Measurements	4th	Wiley	978-0-471-44593-7
MMAE433	Design of Thermal Systems	Yagoobi	NO TEXT REQUIRED	NO TEXT REQUIRED	N/A	N/A	N/A
MMAE441 (1)	Spacecraft & Aircraft Dynamics	Peet	Prussing & Conway	Orbital Mechanics	1st	Oxford	978-0-19-507834-3
MMAE441 (2)	Spacecraft & Aircraft Dynamics	Peet	Nelson	Flight Stability & Automatic Control	2nd	McGraw-Hill	978-0-070-46273-1
MMAE445 (1)	CAD/CAM with Numerical Control	Nagshineh	Kunwoo Lee	Principles of CAD/CAM/CAE	1st	Addison-Wesley (Pearson)	978-0-201-38036-1
MMAE445 (2)	CAD/CAM with Numerical Control	Nagshineh	Toogood & Zecher	Pro/Engineer Wildfire 5.0 Tutorial and MultiMedia CD	1st	Schroff Development Corp	978-1-58503-535-9
MMAE452	Aerospace Propulsion	Raman	Hill & Peterson	Mechanics and Thermodynamics of Propulsion	2nd	Prentice Hall	978-0-201-14659-2
MMAE455	Cardiovascular Fluid Mechanics	Shadden	NO TEXT REQUIRED	NO TEXT REQUIRED	N/A	N/A	N/A
MMAE468	Introduction to Ceramic Materials	Gonczyk	Richerson	Modern Ceramic Eng. - Prop., Processing & Use in Design	3rd	CRC Press	978-1-574-44693-7
MMAE470	Introduction to Polymer Science	Mandal	Mandal	Polymer Synthesis: Strategies & Tactics	1st	Covalent Press	978-0-9841572-0-4
MMAE476	Materials Laboratory II	Tin	NO TEXT REQUIRED	NO TEXT REQUIRED	N/A	N/A	N/A
MMAE485	Manufacturing Processes	Tin	Kalpakjian & Schmid	Manufacturing Engineering and Technology	6th	Prentice Hall	978-0-136-08168-5
MMAE490	Crystallography & Crystal Defects	Kallend	NO TEXT REQUIRED	NO TEXT REQUIRED	N/A	N/A	N/A
MMAE501 (1)	Engineering Analysis I	Cassel	Hildebrand	Methods of Applied Mathematics (Required)	2nd	Dover	486670023
MMAE501 (2)	Engineering Analysis I	Cassel	Kreyszig	Advanced Engineering Mathematics (Recommended)	9th	Wiley	978-0-471-48885-9
MMAE507	Introduction to Continuum Mechanics	Nair	Nair	Introduction to Continuum Mechanics	1st	Cambridge University Press	978-0-521-87562-2
MMAE510	Fundamentals of Fluid Mechanics	Nagib	Panton	Incompressible Flow	3rd	Wiley	978-0-471-26122-3
MMAE522	Nuclear, Fossil Fuel, and Sustainable Energy Systems	Ostrogorsky	Babcock & Wilcox	Steam: Its Generation & Use	39th or earlier	Babcock & Wilcox Company	
MMAE522 (2)	Nuclear, Fossil Fuel, and Sustainable Energy Systems	Ostrogorsky	Weston	Energy Conversion: The eBook (http://www.personal.utulsa.edu/~kenneth-weston)	1st	Free online	N/A
MMAE522 (3)	Nuclear, Fossil Fuel, and Sustainable Energy Systems	Ostrogorsky	Lienhardt	A Heat Transfer Textbook (http://web.mit.edu/lienhard/www/ahtt.html)	3rd	Free online	N/A
MMAE530	Advanced Mechanics of Solids	TBD	NO TEXT REQUIRED	NO TEXT REQUIRED	N/A	N/A	N/A
MMAE546	Advanced Manufacturing Engineering	Wu	Kalpakjian & Schmid	Manufacturing Processes for Engineering Materials	5th	Prentice Hall	978-0-13-601959-6
MMAE555	Introduction to Navigation Systems	Pervan	Misra & Enge	Global Positioning System - Signals, Measurement & Performance	2nd	Ganga-Jamuna Press	0-9709544-1-7
MMAE557	Computer Integrated Manufacturing Systems	Cesarone	Groover	Automation, Production Systems, & Computer-Integrated Manufacturing	3rd	Prentice Hall	978-0-13-239321-8
MMAE563	Advanced Mechanical Metallurgy	Mostovoy	Hertzberg	Deformation & Fracture Mechanics Of Engineering Materials	4th	Wiley	978-0-471-01214-6
MMAE565	Materials Laboratory II	Tin	NO TEXT REQUIRED	NO TEXT REQUIRED	N/A	N/A	N/A
MMAE569	Advanced Physical Metallurgy	Nash	Porter, Easterling, & Sherif	Phase Transformations in Metals and Alloys	3rd	CRC Press	978-1420062106
MMAE589	Applications in Reliability Engineering I	Cesarone	O'Connor	Practical Reliability Engineering	4th	Wiley	978-0-470-84463-2
MMAE713	Engineering Economic Analysis	Cesarone	NO TEXT REQUIRED	NO TEXT REQUIRED	N/A	N/A	N/A
MS201	Materials Science	Kallend	Callister & Rethwisch	Fundamentals of Materials Science and Engineering	3rd	Wiley	978-0-470-12537-3