

MMAE Book List - Spring 2010

Course #	Course Title	Instructor	Author (s)	Title	Edition	Publisher	ISBN
MMAE 201	Mechanics of Solids I	Wu	Beer, Johnston, Mazurek, & Eisenberg	Vector Mechanics for Engineers - Statics	9th	McGraw-Hill	978-0-077-27556-3
MMAE 202	Mechanics of Solids II	Cammino	Beer, Johnston, Dewolf, & Mazurek	Mechanics of Materials	5th	McGraw-Hill	978-0-077-22140-9
MMAE 304	Mechanics of Aerostructures	Cammino	Megson	Aircraft Structures F/Engineering Studies	4th	Elsevier	978-0-750-66739-5
MMAE 305	Dynamics	Meade	Beer & Johnston	Vector Mechanics for Engineers - Dynamics	9th	McGraw Hill	978-0-077-24916-8
MMAE 306	Analysis & Design of Machine Elements	Wu	Budynas	Shigley's Mechanical Engineering Design	8th	McGraw Hill	978-0-073-31260-6
MMAE 310	Fluid Mechanics with Lab	Shadden	Munson, Young, Okiishi, & Huebach	Fundamentals of Fluid Mechanics w/ WileyPLUS (Hardback) or WileyPLUS Stand-alone to Accompany Fundamentals of Fluid Mechanics	6th	Wiley	978-0-470-43730-8 or 978-0-470-22592-9
MMAE 311	Compressible Flow	Wark	Zucker & Bilbraz	Fundamentals of Gas Dynamics	2nd	Wiley	978-0-471-05967-6
MMAE 312	Aerodynamics of Aerospace Vehicles	Williams	Bertin & Cummings	Aerodynamics for Engineers	5th	Prentice Hall	978-0-132-27268-1
MMAE 313	Fluid Mechanics without Lab	Shadden	Munson, Young, Okiishi, & Huebach	Fundamentals of Fluid Mechanics w/ WileyPLUS (Hardback) or WileyPLUS Stand-alone to Accompany Fundamentals of Fluid Mechanics	6th	Wiley	978-0-470-43730-8 or 978-0-470-22592-9
MMAE 320	Thermodynamics	Ostrogorsky	Cengel & Boles	Thermodynamics: an Engineering Approach - w/DVD	6th	McGraw Hill	978-0-073-30537-0
MMAE 321	Applied Thermodynamics	Ruiz	Moran & Shapiro	Fundamentals of Engineering Thermodynamics	6th	Wiley	978-0-471-78735-8
MMAE 322	Heat and Mass Transfer	Clack	Incropera, DeWitt, Bergman, & Lavine	Fundamentals of Heat & Mass Transfer	6th	Wiley	978-0-471-45728-2
MMAE 350	Computational Mechanics	Meade	Gilat & Subramaniam	Numerical Methods for Engineers & Scientists	1st	Wiley	978-0-471-73440-6
MMAE 371	Engineering Materials & Design	Mostovoy	Dowling	Mechanical Behavior of Materials	3rd	Prentice Hall	978-0-131-86312-5
MMAE 430	Engineering Measurements Lab	Mansy	Figliola & Beasley	Theory and Design for Mechanical Measurements	4th	Wiley	978-0-471-44593-7
MMAE 432	Design Of Mechanical Systems	Spenko	No Text Required	No Text Required	N/A	N/A	N/A
MMAE 436	Design of Aerospace Vehicles	Rempfer	Raymer	Aircraft Design: A Conceptual Approach	4th	AIAA	978-1563472817
MMAE 437	Design of Aerospace Vehicles II	Lisowski	Griffin & French	Space Vehicle Design	2nd	AIAA	978-1-563-47539-9
MMAE 443	Systems Analysis and Control	Peet	Nise	Control Systems Engineering	5th	Wiley	978-0-471-79475-2
MMAE 451	Finite Element Methods in Engineering	Gosz	Gosz	Finite Elem. Meth.-Appl. In Solids, Structures and Heat Transfer	1st	Taylor	978-0-849-33407-8
MMAE 463	Structure & Properties of Materials II	Nash	Reed-Hill & Abbaschian	Physical Metallurgy Principles	4th	PWS-Kent	978-0-495-08254-5
MMAE 465	Electrical, Magnetic & Optical Properties of Materials	Kallend	Hummel	Electronic Properties of Materials	3rd	Springer-Verlag	978-0-387-95144-7
MMAE 482 (Required)	Composites	Vural	Daniel & Ishai	Engineering Mechanics of Composite Materials	2nd	Oxford University Press	978-0-195-15097-1
MMAE 482 (Recommended)	Composites	Vural	Chawla	Composite Materials	3rd	Springer-Verlag	978-0-387-98409-4
MMAE 501 (Required)	Engineering Analysis I	Cassel	Hildebrand	Methods of Applied Mathematics	2nd	Dover	978-0-486-67002-7
MMAE 501 (Recommended)	Engineering Analysis II	Cassel	Kreyszig	Advanced Engineering Mathematics	9th	Wiley	978-0-471-48885-9
MMAE 502	Engineering Analysis II	Nair	Hildebrand	Methods of Applied Mathematics	2nd	Dover	978-0-486-65363-1
MMAE 511	Dynamics of Compressible Fluids	Raman	Zucrow & Hoffman	Gas Dynamics: Volume 1	1st	Wiley	978-0-471-98440-5
MMAE 514	Stability of Viscous Flows	Rempfer	Drazin	Introduction to Hydrodynamic Stability	1st	Cambridge University Press	978-0-521-00965-2
MMAE 525	Fundamentals of Heat Transfer	Yagoobi	No Text Required	No Text Required	N/A	N/A	N/A
MMAE 526	Heat Transfer: Conduction	Ostrogorsky	Arpaci	Conduction Heat Transfer	1st	Prentice Hall	978-0-536-58016-0
MMAE 533	Fatigue and Fracture Mechanics	Mostovoy	Hertzberg	Deformation and Fracture Mechanics of Engineering Materials	4th	Wiley	978-0-471-01214-6
MMAE 541	Advanced Dynamics	Pervan	Moon	Applied Dynamics	2nd	Wiley	978-3-527-40751-4
MMAE 543 (Required)	Modern Control Systems	Peet	Williams & Lawrence	Linear State-Space Control Systems	1st	Wiley	978-0-471-73555-7
MMAE 543 (Recommended)	Modern Control Systems	Peet	Dullerud & Paganini	A Course in Robust Control Theory: A Convex Approach	1st	Springer	978-0-387-98945-7
MMAE 545	Advanced CAD/CAM	Qian	Cohen, Risenfeld, & Elber	Geometric Modeling with Splines: An Introduction	1st	A. K. Peters	978-1-568-81137-6
MMAE 547	Computer Integrated Manufacturing Technologies	Cesarone	Groover	Automation, Production Systems, & Computer-Integrated Manufacturing	3rd	Prentice Hall	978-0-1-323-9321-8
MMAE 554	Electrical, Magnetic & Optical Properties of Materials	Kallend	Hummel	Electronic Properties of Materials	3rd	Springer-Verlag	978-0-387-95144-7
MMAE 560	Statistical Quality Process Control	Tatara	Montgomery	Introduction to Statistical Quality Control	5th	Wiley	978-0-471-65631-9
MMAE 566	Problems in High-Temperature Materials	Tin	No Text Required	No Text Required	N/A	N/A	N/A
MMAE 578 (Required)	Fiber Composite Materials	Vural	Daniel & Ishai	Engineering Mechanics of Composite Materials	1st	Oxford University Press	978-0-195-07506-9
MMAE 578 (Recommended)	Fiber Composite Materials	Vural	Chawla	Composite Materials	3rd	Springer-Verlag	978-0-387-98409-4
MMAE 590	Apps Reliability Engineering II	Cesarone	O'Connor	Practical Reliability Engineering	4th	Wiley	978-0-470-84463-2
MMA 723	Discrete Event Simulation	Cesarone	Kelton, Sadowski, & Sturrock	Simulation With Arena	4th	McGraw Hill	978-0-073-25989-5
MS 201	Materials Science	Kallend	Callister & Rethwisch	Fundamentals of Materials Science and Engineering	3rd	Wiley	978-0-470-12537-3