

Fall 2010 Textbook List

Unless otherwise stated in this list, students are expected to purchase the current version/edition of the textbook with CDs or other enclosed materials.

ASEN 2001 - Aero 1: Stat, Struct & Mat'ls (Larson/Maute)

Bedford and Fowler, Engineering Mechanics 5th edition, Pearson, ISBN-13: 978-0136129158

Beer & Johnston, Mechanics of Materials 5th edition, McGraw-Hill, ISBN-13: 978-0073529387

ASEN 2002 - Aero 2: Thermo & Aerodyn (Thayer/Kantha)

Moran, Shapiro, et al., "Intro to Thermal Systems Engineering," 2003, Wiley, 0-471-20490-0

Anderson, "Introduction to Flight," 2008, 6th Ed., McGraw-Hill, 9780073529394

ASEN 3111 – Aerodynamics (Biringen/Jansen)

Kuethe & Chow, "Foundations of Aerodynamics," 5th Ed., Wiley, ISBN 0471129194

Optional text: Barnard & Philpott, "Aircraft Flight," 3rd Ed., Pearson, ISBN 9780131200432

ASEN 3112 – Structures (Felippa)

Beer & Johnston, Mechanics of Materials 5th edition, McGraw-Hill, ISBN-13: 978-0073529387

R. W. Craig and A. J. Kurdila, Fundamentals of Structural Dynamics, Wiley, 2nd ed., ISBN 0-0471-43044-7

ASEN 3113 - Thermodynamics & Heat Trans (Thayer/Chu)

Moran, Shapiro, et al., "Intro to Thermal Systems Engineering," 2003, Wiley, ISBN 0-471-20490-0
(most students should already have this title from taking 2002)

ASEN 4012 – Aero Materials (Koster)

Ashby, Michael, "Materials Selection in Mechanical Design," 2010, 4th Ed., Butterworth
Heinemann, ISBN 13: 978-1-85617-663-7

ASEN 4018 – Senior Projects (Koster)

"AIAA Aerospace Design Engineers Guide," 5th edition, 2003, ISBN 1-56347-590-1

ASEN 4114/5114 - Automatic Control Systems (Lawrence)

Franklin, Powell, Emami-Naeini, "Feedback Control of Dynamic Systems, 6th ed., Prentice-Hall
ISBN 13:978-0-13-601969-5

ASEN 4123 – Vibrational Analysis (Hussein)

Rao, Singrisu, "Mechanical Vibrations," 4th Edition, 2003, Prentice Hall, ISBN-10: 0130489875,
ISBN-13: 978-0130489876

ASEN 5012 -- Mech of Aero Structures (Doostan)

Optional texts:

Morton E. Gurtin, "An introduction to continuum mechanics (Mathematics In Science and
Engineering)", Academic Press, 2003

Arthur P. Boresi and Ken P. Chong "Elasticity in Engineering Mechanics", 2nd edition, Wiley Interscience Publications, New York, 2000

Allan F. Bower, "Applied Mechanics of Solids" Taylor and Francis, 2009

Y.C. Fung and P. Tong, "Classical and computational solid mechanics (Advanced series in engineering sciences)", World Scientific Publishing, Singapore, 2001

ASEN 5014 - Linear Control Systems (Frew)

Brogan, William, Modern Control Theory, Prentice-Hall, 3rd edition, 1991, ISBN 0-13-589763-7

ASEN 5018/6028 Graduate Projects (Tanner)

Cook, Curtis R., "Just Enough Project Management," 2005, McGraw-Hill, 0071445404

ASEN 5050 - Space Flight Dynamics (Nerem)

Vallado, David A., Fundamentals of Astrodynamics and Applications, 3rd Edition, 2007, Springer, 978-1881883142

ASEN 5051 – Fluid Mechanics (Mohseni)

Ira M. Cohen & Pijush K. Kundu, "Fluid Mechanics with Multimedia DVD," Fourth Edition [Hardcover], 2010, Academic Press, ISBN-10: 0123813999, ISBN-13: 978-0123813992

ASEN 4114/5114 - Automatic Control Systems (Lawrence)

Franklin, Powell, Emami-Naeini, "Feedback Control of Dynamic Systems, 6th ed., Prentice-Hall ISBN 13:978-0-13-601969-5

ASEN 5227 - Aerospace Math 1 (Hussein)

Harman, T.L., Dabney, J.B., and Richert, N.J., Advanced Engineering Mathematics, 2nd, 2000, Wadsworth, 978-0534371647

ASEN 5335 Aerospace Environment (Knipp)

Prolss, "Physics of the Earth's Space Environment," 2004, Springer, ISBN 9783540214267

ASEN 6519 Special Topics: Advanced Spacecraft Dynamics and Control (Schaub)

H. Schaub and J. L. Junkins, Analytical Mechanics of Space Systems, AIAA Education Series, 2nd Edition Reston, VA, 2009, ISBN-13: 978-1600867217

ASEN 6013 High Speed Propulsion (Starkey)

William H. Heiser, David T. Pratt, "Hypersonic Airbreathing Propulsion," 1994, AIAA, 13: 978-1-56347-035-6