

Spring 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 2003-010 Aero 3: Dynamics & Systems (Axelrad/Scheeres)
Bedford & Fowler, Engineering Mechanics: Dynamics, 2008, Pearson, ISBN
9780136129165

ASEN 2004-010 Aero 4: Vehicle Design & Perf (Starkey/Lawrence)
1. Brandt, Stiles, Bertin, and Whitford, Introduction to Aeronautics and AeroDynamic 3.0 Set *including software*, 2nd Edition, 2004, AIAA ISBN-10: 1-56347-692-4,
ISBN-13: 978-1-56347-692-1.
2. Sellers, Understanding Space: An Introduction to Astronautics, McGraw-Hill Higher
Education, 3rd Ed. 2005, ISBN-13:978-0-07-340775-3, ISBN-10:0-07-340775-5
3. Clickers
Optional: Anderson, John, Introduction to Flight, 2008, 6th Ed., McGraw-Hill,
9780073529394

ASEN 3128-010 Aircraft Dynamics (Frew)
Required: Schmidt, Intro. to Aircraft Flight Dynamics, 1998, AIAA, ISBN 978-1-
56347-226-8
Optional: Bernard Etkin & Lloyd Duff Reid, Dynamics of Flight: Stability and Control,
Wiley, 3rd Ed., 1995, ISBN: 978-0-471-03418-6

ASEN 3200-010, 011, 012 Orbit Mech/Att Dyn & Control (Nerem/Schaub)
Curtis, Howard D., Orbital Mechanics for Engineering Students, 2nd Edition, Elsevier
Aerospace Engineering Series, 2010
ISBN: 978-0-12-374778-5

ASEN 3300-010, 011 Electronics and Communications (Chu/Sternovsky)
Scherz, Paul, Practical Electronics for Inventors (Paperback), McGraw-Hill/TAB
Electronics; 2nd. Edition, 2006, ISBN 978-0071452816

ASEN 3519-003 Special Topics: Intro to Human Spaceflight (Voss)
Harrison, Albert A., Spacefaring, The Human Dimension, University of California Press,
2001, ISBN 0-520-22453-I

ASEN 4013-001 Foundations of Propulsion (Kantha)
Mattingly, Elements of Propulsion: Gas Turbines & Rockets, ISBN 1563477793, 2006,
AIAA

ASEN 5010-001 Spacecraft Att Dyn/Controls (Schaub)
Schaub, Hanspeter, and Junkins, John, Analytical Mechanics of Space Systems, Second
Ed., AIAA Education Series, 2009, Hardback, ISBN-13: 978-1-60086-721-7

ASEN 5022-001 Dynamics of Aero Structures (Doostan)
Meirovitch, Leonard, Principles and Techniques of Vibrations, Prentice Hall, 1997,
ISBN: 0023801417, ISBN-13: 9780023801419
Géradin, Michel, and Rixen, Daniel, Mechanical Vibrations : Theory and Applications to
Structural Dynamics, 2nd ed., John Wiley, 1997, ISBN 9780471975465

ASEN 5024-001 Nonlinear Control Systems (Lawrence)
Khalil, Hassan K., Nonlinear Systems, Prentice Hall, 3rd Ed., 2001, ISBN 0130673897

ASEN 5188-001 Space Systems Engineering (Graf)
Larson, Kirkpatrick, et al., Applied Space Systems Engineering (Space Technology
Series), McGraw-Hill Primis Custom Publishing, 2009, ISBN 978-0073408866

ASEN 5245-001 Radar/Remote Sensing (Thayer)
Mahafza, Bassem, Radar Systems Analysis and Design Using MATLAB, 2nd edition,
Chapman and Hall/CRC, ISBN 1-58488-532-7

ASEN 5307-001 Engineering Data Analysis Methods (Nerem)
Trauth, Martin H., MATLAB Recipes for Earth Sciences, 2nd Edition, 2007, Springer,
ISBN 978-3-540-72748-4

ASEN 5519/6519 Graduate Projects Sections (Tanner)
Forsberg, Visualizing Project Management, 3rd 2005, Wiley, ISBN 978-0471648482