

Fall 2009 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

Beer: Mechanics of Materials, 5th 2009, McGraw-Hill, 9780077221409

Bedford: Engineering Mechanics, Statics, 5th 2008, Prentice-Hall, 978-0136129158

ASEN 2002 - Aero 2: Thermo & Aerodyn

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

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

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

ASEN 3112 - Structures

Craig: Fundamentals of Structural Dynamics, 2nd 2006, Wiley, 978-0471430445

ASEN 3113 - Thermodynamics & Heat Trans Emery/Mohseni

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

Ashby: Materials, Engineering, Science, 2007, Butterworth 978-0750683913

Software to be purchased directly from department; more information to come.

ASEN 4018 - Senior Projects 1

Smith: Teamwork & Project Management, 3rd 2006, McGraw-Hill, 9780073103679

ASEN 4138 - Aircraft Design

Roskam: Airplane Design, Part 1, 1999, DAR Corp, 978-1884885426

Roskam: Airplane Design, Part 2, 1999, DAR Corp, 978-1884885433

ASEN 4436, cross-listed with ECEN 4831 - Brains, Minds, & Computers

Kandel: Principles of Neural Science, 4th 2000, McGraw, 978-0838577011

ASEN 5014 - Linear Control Systems

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

ASEN 5050 - Space Flight Dynamics

Vallado, David A., Fundamentals of Astrodynamics and Applications, 3rd Edition,

2007, Springer, 978-1881883142

ASEN 5051, cross-listed with MCEN 5051 - Fluid Mechanics

Cohen: Fluid Mechanics, 4th 2008, Academic, 978-0123737359

ASEN 5070 - Stat Orbit Determination 1

Tapley: Statistical Orbit Determination, 2004, Academic, 978-0126836301

ASEN 5227 - Aerospace Math 1

Harman: Advanced Engineering Mathematics, 2nd, 2000, Wadsworth, 978-0534371647

ASEN 5235, cross-listed with ATOC 5235 - Intro ATM Rad Trans & RS

Petty: First Course in Atmospheric Radiation, 2nd 2006, Sundog, 978-0972903318

ASEN 5335 - Aerospace Environment

Prohss: Physics of the Earth's Space Environment, 2004, Springer Verlag, 978-3540214267

ASEN 5436 - Brains, Minds, & Computers

Same as ASEN 4436

ASEN 5519-001 Special Topics: Fundamentals of Spectroscopy (Chu)

Demtroder, Wolfgang, "Laser Spectroscopy: Vol. 1 Basic Principles Vol. 2 Experimental Techniques," Springer, 2008, 978-3540749530 (paperback set)

ASEN 5519, sect 010,020 - Special Topics

Forsberg: Visualizing Project Management, 3rd 2005, Wiley, 978-0471648482

ASEN 6519, sect 801 - Special Topics

Schaub: Analytical Mechanics of Space Systems, 2003, AIAA, 978-1563475634

ASEN 6519, sects 010,020 - Special Topics

Same as ASEN 5519,010,020