Fall 2013 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.

The following list is not complete. Additional information is forthcoming.

ASEN 2001-010 Aero 1: Statics, Structures & Materials (Maute/Doostan)

ASEN 2002-010 Thermo & Aerodynamics (Jackson/Thayer)

ASEN 2012-001 Experimental Computational Methods (Jackson)
1. Pratap, Rudra; “Getting Started with MATLAB: A Quick Introduction for Scientists and Engineers”; 2009; Oxford University Press; 9780199731244

ASEN 3046-001 Humans in Aviation (Scott)

ASEN 3111-010 Aerodynamics (Jansen)

ASEN 3112-010 Structures (Felippa)
Available on the web

ASEN 3113-010 Thermo Dynamics and Heat Transfer (Biringen/Emery)
1. Moran, Shapiro, Munson and Dewitt; “Introduction to Thermal Systems Engineering”; John Wiley & Sons; 0471204900

ASEN 4013-001 (Starkey)
1. Sforza, Pasquale M.; "Theory of Aerospace Propulsion"; Elsevier; 9781856179126; Copyright: 2011; Edition: 1
ASEN 4018-010 (Lawrence)
No Textbook Required

ASEN 4114/5114-010 Automatic Control Systems (Frew)
1. Franklin, Powell, and Emami-Naeini; “Feedback Control of Dynamic Systems”; 6th Edition; 2009; Prentice Hall; 9780136019695

ASEN 4138-010 Aircraft Design (Gerren)
No Textbook Required

ASEN 4519/5519-010 Microavionics (Lo Dolce)
1. Gaonkar, Ramesh; “Fundamentals of Microcontrollers and Applications”; Cengage Learning; 9781401879143

ASEN 5007-001 Intro to Finite Elements (Felippa)
Materials available on web

ASEN 5012-002 Mechanics of Aerospace Structures (Hussein)
No Textbook Required

ASEN 5018/6028/ECEN 5009/6009 Graduate Projects (Tanner)

ASEN 5050-001 Space Flight Dynamics (Parker)

ASEN 5051-001 Fluid Mechanics (Evans)

ASEN 5070-001 Statistical Orbit Determination I (Jones/Born)
1. Tapley, Schutz, and Born; “Statistical Orbit Determination”; 2004; Elsevier Science & Technology Books; 0126836302

ASEN 5090-001 Intro to GNSS (Larson)

ASEN 5158-001 Space Habitat Design (Klaus)
1. Giffen, Robert; “Human Spaceflight (n/r)”; 2007; McGraw-Hill Companies; 9780077230289

ASEN 5215-001 Oceanography (Emery)

ASEN 5227-001 Aerospace Math 1 (Argrow)
1. Boas, Mary; “Mathematical Methods in the Physical Sciences”; 3rd edition; 9780471198260

ASEN 5235-002 Intro to Atmospheric Radiative Transfer (Randall)
  1. Petty, Grant William; “First Course in Atmospheric”; 2nd Edition; 2006; Sundog Publishing; 978097290331

ASEN 5417-001 Numerical Methods – Differential Equations (Biringen)
  1. No Textbook Required

ASEN 5519-001 Commercial Spaceflight Operations (Born/Cheetham)
  No Textbook Required

ASEN 5519-002 Technical Communications (Kloberdanz)
  No Textbook Required

ASEN 5519-003 Fundamental Spectroscopy Optical RS (Chu)
  2. “Laser Spectroscopy”; 9783540734154

ASEN 6028-010 Graduate Projects 2 (Tanner)

ASEN 6519-004 Cel Mech & Adv Astr Dyn (Scheeres)
  1. “Solar System Dynamics”; 9780521575973

ASEN 6519-005 Reacting Flows (Hamlington)
  1. Murray, Carl D.; “Solar System Dynamics”; 9780521575973