

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)

1. Hibbeler, R.C.; "Statics and Mechanics of Materials"; 2010; Pearson Prentice Hall; 9780122166744
2. Mastering Engineering – Standalone Access Card – For Statics and Mechanics of Materials

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

1. John D. Anderson, Jr.; "Introduction to Flight"; 7th edition; McGraw Hill Higher Education; 97800703529394
2. Michael J. Moran, Howard N. Shapiro, Bruce R. Munson and David P. DeWitt; John Wiley and Sons, Inc. "Introduction to Thermal Systems Engineering- Thermodynamics, Fluid Mechanics and Heat Transfer"; 9780471204909

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
2. Taylor, John R.; "An Introduction to Error Analysis: The Study of Uncertainties in Physical Measurements"; 1996; 2nd edition; University Science Books; 9780935702750

ASEN 3046-001 Humans in Aviation (Scott)

1. Grant, R.G.; "Flight: Complete History"; 2007; Dorling Kindersley Publishing, Incorporated; 9780756619022
2. Wise, Hopkins and Garland; "Handbook of Aviation Human Factors"; 2nd Edition (Human Factors in Transportation), hardcover 2009; 9780805859065

ASEN 3111-010 Aerodynamics (Jansen)

1. John D. Anderson, Jr.; "Fundamentals of Aerodynamics"; 5th edition; 2011; McGraw Hill; 9780073398105

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 5009/6009-010 Graduate Projects (Tanner)

1. Cook, Curtis R.; "Just Enough Project Management"; 2004; McGraw-Hill; 0071445404

ASEN 5050-001 Space Flight Dynamics (Parker)

1. Vallado, David A.; "Fundamentals of Astrodynamics and Applications"; 3rd Edition; 2007; Springer; 9781881883142

ASEN 5051-001 Fluid Mechanics (Evans)

1. Kundu; "Fluid Mechanics"; 4th Edition; 9780123813992

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)

1. Misra and Enge; "Global Positioning System, Signals Measurements, and Performance"; 2nd Edition; Ganga-Jamuna Press

ASEN 5158-001 Space Habitat Design (Klaus)

1. Giffen, Robert; "Human Spaceflight (n/r)"; 2007; McGraw-Hill Companies; 9780077230289

ASEN 5215-001 Oceanography (Emery)

1. Talley, Pickard, Emery, and Swift; "Descriptive Physical Oceanography: An Introduction"; 9780750645522

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)

1. "Laser Spectroscopy Vol. 2: Experimental Techniques"; 9783540749523
2. "Laser Spectroscopy"; 9783540734154

ASEN 6028-010 Graduate Projects 2 (Tanner)

1. Cook ; "Just Enough Project Management"; McGraw-Hill; 2005; 978-0071445405

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