Fall 2015 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 1400 Gateway to Space (Koehler)
No Textbook Required

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

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

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 (Argrow/Evans)

ASEN 3112 -010 Structures (Felippa)
Materials available on the web

ASEN 3113-010 Thermo Dynamics and Heat Transfer (Li)

ASEN 4013-001 (Starkey)
1. Sforza, Pasquale M.; "Theory of Aerospace Propulsion"; Elsevier; 9781856179126; Copyright: 2011; Edition: 1
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Textbook(s)</th>
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<tbody>
<tr>
<td>ASEN 4018-010</td>
<td>(Nabity) No Textbook Required</td>
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<tr>
<td>ASEN 4519/5519-010</td>
<td>Microavionics (Weibel)</td>
<td>1. Gaonkar, Ramesh; “Fundamentals of Microcontrollers and Applications”; Cengage Learning; 9781401879143</td>
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<tr>
<td>ASEN 5007-001</td>
<td>Intro to Finite Elements (Felippa)</td>
<td>Materials available on web</td>
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<tr>
<td>ASEN 5018-010</td>
<td>Graduate Projects (Tanner)</td>
<td>1. Cook, Curtis R.; “Just Enough Project Management”; 2004; McGraw-Hill; 0071445404</td>
</tr>
<tr>
<td>ASEN 5063-001</td>
<td>Aircraft Propulsion (Kantha)</td>
<td>1. Farokhi, Saeed; “Aircraft Propulsion”; 2nd edition; Wiley; 9781118806777</td>
</tr>
<tr>
<td>ASEN 5070-002</td>
<td>Statistical Orbit Determination I (Jones)</td>
<td>1. Tapley, Schutz, and Born; “Statistical Orbit Determination”; 2004; Elsevier Science &amp; Technology Books; 9780126836301</td>
</tr>
<tr>
<td>ASEN 5158-001</td>
<td>Space Habitat Design (Klaus)</td>
<td>1. Larson, Wiley; “Human Spaceflight with Website”; McGraw-Hill; ISBN 9780077230289</td>
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<tr>
<td>ASEN 5215-001</td>
<td>Oceanography (Emery)</td>
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ASEN 5227-001 Aerospace Math 1 (Emery)

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

ASEN 5426-001

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

ASEN 5519-002 Mission Concept Development (France/Sternovsky)

ASEN 5519-003 Fundamental Spectroscopy (Chu)

ASEN 6010-001 Advanced Spacecraft Dynamics & Control (Schaub)

ASEN 6091-001 GNSS/GPS Rx Architecture (Akos)
“A Software-Defined GPS and Galileo Receiv”9780817643904

ASEN 6519-001 Advanced Turbulence Simulation (Jansen)
“Turbulence Modeling for CFD” Wilcox, 3rd edition; 9781928729082