

## Spring 2011 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 - Lawrence/Krebs  
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 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 - Sternovsky  
Scherz, Paul, Practical Electronics for Inventors (Paperback), McGraw-Hill/TAB  
Electronics; 2nd. Edition, 2006, ISBN 978-0071452816

ASEN 3519-002 Special Topics: Humans in Aviation – Hank Scott  
Grant, R.G., Flight: 100 Years of Aviation, 2007, DK Publishing (March 19, 2007), ISBN-10:  
0756619025, ISBN-13: 978-0756619022  
Wise, Hopkin, & Garland, Handbook of Aviation Human Factors, Second Edition, 2009,  
CRC Press, ISBN-10: 0805859063, ISBN-13: 978-0805859065

ASEN 4013 Foundations of Propulsion - Starkey  
Mattingly, Elements of Propulsion: Gas Turbines & Rockets, ISBN 1563477793, 2006,  
AIAA  
I-Clickers are required

ASEN 5010 Spacecraft Att Dyn/Controls - Schaub  
Schaub, Hanspeter, and Junkins, John, Analytical Mechanics of Space Systems, Second Ed., AIAA Education Series, 2009, Hardback, ISBN 1600867219

ASEN 5016 Space Life Sciences - Klaus  
Buckey, Jay C. Jr., Space Physiology, 2006, Oxford University Press, ISBN-13 978-0-19-513725-5

ASEN 5018/6028 Graduate Projects – Tanner  
Lewis, James P., Fundamentals of Project Management, 2007, Third Edition, AMACOM, ISBN 0-8144-0879-6

ASEN 5070 - Stat Orbit Determination 1 - Born  
Tapley, Schutz, & Born: Statistical Orbit Determination, 2004, Academic, 978-0126836301

ASEN 5245 - Radar/Remote Sensing - Palo  
Richards, Scheer, & Holm, Principles of Modern Radar: Basic Principles, SciTech Publishing, 2010, ISBN 978-1891121-52-4

ASEN 6061 Real Gas Dynamics – Argrow  
Bird, G.A., "Molecular Gas Dynamics and the Direct Simulation of Gas Flows," 1994 (second reprint 1998), Oxford University Press, ISBN13: 9780198561958