

# Aerospace Engineering

## Fall Term 2008

### Text Book List

<b>Professor:</b>	Ella Atkins	<b>Class:</b>	Flight Software Systems	<b>Course No:</b>	AE450
<b>Author:</b>	Ganesh L. Gopalakrishnan	<b>Title:</b>	Computation Engineering: Applied Automata Theory And Logic	<b>Publisher:</b>	Springer
<b>ISBN No:</b>	0387244182	<b>Required:</b>	<b>YES</b>		

<b>Professor:</b>	Iain Boyd	<b>Class:</b>	Hypersonic Aerothermodynamics	<b>Course No:</b>	AE5526
<b>Author:</b>	John J. Bertin	<b>Title:</b>	Hypersonic Aerothermodynamics (Aiaa Education Series)	<b>Publisher:</b>	AIAA
<b>ISBN No:</b>	1563470365	<b>Required:</b>	<b>YES</b>		

<b>Professor:</b>	Werner Dahm	<b>Class:</b>	Aircraft and Spacecraft Propulsion	<b>Course No:</b>	AE 335
<b>Author:</b>	Hill & Peterson	<b>Title:</b>	Mechanics and Thermodynamics of Propulsion (2nd Edition)	<b>Publisher:</b>	Prentice Hall
<b>ISBN No:</b>	0201146592	<b>Required:</b>	<b>YES</b>		

<b>Professor:</b>	Jim Driscoll	<b>Class:</b>	Aerodynamics	<b>Course No:</b>	AE325
<b>Author:</b>	John D. Anderson	<b>Title:</b>	Fundamentals of Aerodynamics	<b>Publisher:</b>	McGraw-Hill
<b>ISBN No:</b>	0072950463	<b>Required:</b>	<b>YES</b>		

<b>Professor:</b>	Chris Fidowski	<b>Class:</b>	Comp Fluid Dynamics	<b>Course No:</b>	AE523
<b>Author:</b>	Charles Hirsch	<b>Title:</b>	Fundamentals of Computational Fluid Dynamics	<b>Publisher:</b>	Butterworth Heinemann
<b>ISBN No:</b>	978-0-7506-6594- 0	<b>Required:</b>	<b>YES</b>		

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<b>Professor:</b>	Peretz Friedmann	<b>Class:</b>	Aerospace Structure	<b>Course No:</b>	AE 315
<b>Author:</b>	T.H.G. Megson	<b>Title:</b>	Aircraft Structure for Engineering Students	<b>Publisher:</b>	Butterworth Heinemann, 4 <sup>th</sup> ED.
<b>ISBN No:</b>	9780-75066-7395	<b>Required:</b>	Recommended		
<b>Author:</b>	C.T. Sun	<b>Title:</b>	Mechanics of Aircraft Structures	<b>Publisher:</b>	Wiley
<b>ISBN No:</b>	13-978-0-471-69966-8	<b>Required:</b>	Recommended		

<b>Professor:</b>	Alec Gallimore	<b>Class:</b>	Introduction to Gas Dynamics	<b>Course No:</b>	AE225
<b>Author:</b>	John D. Anderson	<b>Title:</b>	Modern Compressive Flow; with Historical Perspective, 3 <sup>rd</sup> Edition	<b>Publisher:</b>	McGraw-Hill
<b>ISBN:</b>	0-07-242443-5 (also listed: 0-07-112161-7)	<b>Required:</b>	YES		

<b>Professor:</b>	Alec Gallimore	<b>Class:</b>	Rocket Propulsion	<b>Course No:</b>	AE 535
<b>Author:</b>	George Sutton	<b>Title:</b>	Rocket Propulsion Elements, 7th Edition	<b>Publisher:</b>	Wiley
<b>ISBN No.:</b>	0471326429	<b>Required:</b>	YES		

<b>Professor:</b>	Pierre Kabamba	<b>Class:</b>	Air Spacecraft	<b>Course No:</b>	AE245
<b>Author:</b>	William Strunk Jr. & E.B. White	<b>Title:</b>	The Elements of Style, 4 <sup>th</sup> Edition	<b>Publisher:</b>	Longman Publishing
<b>ISBN No:</b>	0-205-31342-6	<b>Required:</b>	Recommended		
<b>Author:</b>	John E. Prussing & Bruce A. Conway	<b>Title:</b>	Orbital Mechanics (2 <sup>nd</sup> half of the Semester only)	<b>Publisher:</b>	Oxford University Press
<b>ISBN No:</b>	978-0-19-507834-3	<b>Required:</b>	YES		

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<b>Professor:</b>	Pierre Kabamba	<b>Class:</b>	Aero Issues	<b>Course No:</b>	AE285
<b>Author:</b>	William Strunk Jr. & E.B. White	<b>Title:</b>	The Elements of Style, 4 <sup>th</sup> Edition	<b>Publisher:</b>	Longman Publishing
<b>ISBN No:</b>	0-205-31342-6	<b>Required:</b>	YES		

<b>Professor:</b>	Ken Powell	<b>Class:</b>	Aircraft Design	<b>Course No:</b>	AE 481
<b>Author:</b>	Daniel P. Raymer	<b>Title:</b>	Aircraft Design: A Conceptual Approach (AIAA Education Series)	<b>Publisher:</b>	AIAA
<b>ISBN No.:</b>	1563478293	<b>Required:</b>	YES		

<b>Professor:</b>	John Shaw	<b>Class:</b>	Introduction to Solid Mechanics and Aerospace Structures	<b>Course No:</b>	AE 215
<b>Author:</b>	Bedford & Liechti	<b>Title:</b>	Mechanics of Materials	<b>Publisher:</b>	Prentice Hall
<b>ISBN No:</b>	0201895528	<b>Required:</b>	YES		

<b>Professor:</b>	Wei Shyy	<b>Class:</b>	Viscous Flow	<b>Course No:</b>	AE522
<b>Author:</b>	Frank M.White	<b>Title:</b>	Viscous Fluid Flow	<b>Publisher:</b>	McGraw-Hill
<b>ISBN No:</b>	0072402318	<b>Required:</b>	YES		

<b>Professor:</b>	Tim Smith	<b>Class:</b>	Aero Engineering Lab I	<b>Course No:</b>	AE 305
<b>Author:</b>	J.P. Holman	<b>Title:</b>	Experimental Methods for Engineers 7 <sup>th</sup> ED.	<b>Publisher:</b>	McGraw-Hill
<b>ISBN No:</b>	0-073-66055-8	<b>Required:</b>	YES		

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<b>Professor:</b>	Veera Sundararaghavan	<b>Class:</b>	Special Topics in Structural Mechanics	<b>Course No:</b>	AE 714
<b>Author:</b>	Griebel, Knapek, Zumbusch	<b>Title:</b>	Numerical Simulation in Molecular Dynamics: Numerics, Algorithms, Parallelization, Applications	<b>Publisher:</b>	Springer
<b>ISBN No:</b>	3540680942	<b>Required:</b>	<b>YES</b>		
<b>Author:</b>	Jos Thijssen	<b>Title:</b>	Computational Physics	<b>Publisher:</b>	Cambridge University
<b>ISBN No:</b>	0521833469	<b>Required:</b>	<b>YES</b>		