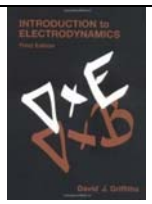
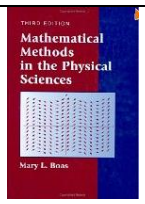
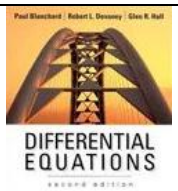
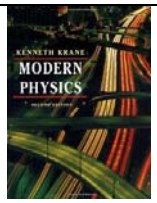
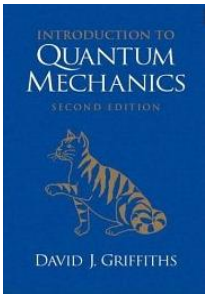
Methods of Mathematical Physics – Winter 2010 texts

David J. Griffiths, **Introduction to Electrodynamics**, 3rd Edition Features a clear, accessible treatment of the fundamentals of electromagnetic theory. Its lean and focused approach employs numerous examples and problems. Carefully discusses subtle or difficult points. Contains numerous, relevant problems within the book in addition to end of each chapter problems and answers. *(NEW TEXT)* 1999, Benjamin Cummings ISBN 978-0138053260	
Mary L. Boas, **Mathematical Methods in the Physical Sciences** Now in its third edition, Mathematical Concepts in the Physical Sciences provides a comprehensive introduction to the areas of mathematical physics. It combines all the essential math concepts into one compact, clearly written reference. (CONTINUING FALL TEXT) 2005, Wiley ISBN 978-0471198260	
Blanchard, Devaney, and Hall, **Differential Equations**, 3rd Ed Incorporating an innovative modeling approach, this text for a one-semester differential equations course emphasizes conceptual understanding to help students relate information taught in the classroom to real-world experiences. (CONTINUING FALL TEXT) 2006, Thomson ISBN 9780495012658	
Modern Physics, by Kenneth S. Krane Bring Modern Physics to Life with a Realistic Software Simulation! Enhance the thorough coverage of Krane's Modern Physics 2e with hands-on, real-world experience via CUPS simulations. (CONTINUING FALL TEXT – will also serve as Quantum text.) 1995, Wiley ISBN 978-0471828723	
****** PLUS Science Seminar TEXTS ******	
Some likely Spring Quarter texts:	
David J. Griffiths, **Introduction to Quantum Mechanics**, 2nd Edition *(optional supplement for Winter Quarter)* This book first teaches learners how to *do* quantum mechanics, and then provides them with a more insightful discussion of what it *means.* Fundamental principles are covered, quantum theory presented, and special techniques developed for treating realistic problems. The book's two-part organization first covers basic theory, then develops approximation schemes with illustrative applications. 2004, Benjamin Cummings ISBN 978-0131118928	
Black Holes and Time Warps, by Thorne & Wheeler (General Relativity)	
Warped Passages, by Lisa Randall (Cosmology: string theory, etc.)	

Dr. E.J. Zita *zita@evergreen.edu* *http://academic.evergreen.edu/z/zita/*