

# Course Catalog - Spring 2010

## Physics

515 **General Relativity I** credit: 4 hours.

Systematic introduction to Einstein's theory, with emphasis on modern coordinate-free methods of computation. Topics include: review of special relativity, modern differential geometry, foundations of general relativity, laws of physics in the presence of a gravitational field, linearized theory, and experimental tests of gravitation theories. Same as ASTR 515. Offered in alternate Fall terms. Prerequisite: PHYS 436 (includes PHYS 326).