

# MAE 192 Senior Seminar

## New Cosmology

**10-12 am January 14, 28 February 11, 25**  
**EBUII 479**

New space satellites such as the Hubble Space Telescope and the Wilkinson Microwave Anisotropy Probe WMAP produce new images of the cosmos that cannot be explained using Old Cosmology models that employ obsolete ideas of Old Fluid Mechanics. Modern concepts of turbulent flow and transport processes are employed in New Cosmology to revise and explain erroneous concepts such as Cold Dark Matter, Dark Energy, Dark Flow, and Black Holes proposed by old cosmology to cope with the flood of new images. Fifth year WMAP images of the cosmic microwave background CMB reveal a “Dark Flow” convergence of galaxy clusters on a spin axis termed the “axis of evil” by old cosmology that is easy to explain as a viscous incompressible flow converging on an ancient turbulent vortex line of the plasma produced by the big bang. See or email Gerri Johnson at [gljohnson@ucsd.edu](mailto:gljohnson@ucsd.edu) in MAE to register. More information about the class is at <http://sdcc3.ucsd.edu/~ir118>.

X-ray galaxy clusters moving radially toward the “axis of evil” CMB-dipole direction

