Honors 2006

Requirements for Honors in Chemistry include a program of research with readings from the original literature, presentation of an Honors Essay, typically about 60 pages in length, and the satisfactory completion of a comprehensive oral examination in the subject area of the research. This year eleven Seniors were awarded Honors; nine in Chemistry, one in Biology and one in Interdisclipinary Studies. Faculty mentors' names are in parentheses.

Chris Brown (Bagdassarian)
A Theoretical Approach to Understanding the Evolution of Species Persistence in Ecosystems

Ellie Browne (Kranbuehl)
The Kinetics of Amide Bond Hydrolysis

Steve Calder (Knudson)
Determination of a Semiclassical Wave Function for a Single-Electron Diatomic Molecule

Brad Carra (Bebout)
The Characterization of Zn(II), Cd(II), and Hg(II) Complexes with Biologically Relevant Ligands by X-Ray Diffraction of Nuclear Magnetic Resonance

Ryan Fame (Biology, Saha)
The Role of BMP-4, FGF-8b and Retinoic Acid on the Specification and Differentiation of GABAergic and Glutamatergic Neural Phenotypes

Steven Lewis (Harbron)
Modulated Fluorescence in Films of Azobenzene-functionalized PPV Derivatives

Chris O'Neill (Orwoll)
Development and Analysis of Polymers for Use in Radiation Shielding in Manned Deep Space Flight

Sarah Orski (Starnes)
A Study of the Synergistic Effects of Additives and Nanocomposites on the Fire Retardance and Smoke Suppression of Poly(vinyl chloride)