

HONORS 2013

Requirements for Honors in Chemistry include a program of research with readings from the original literature, presentation of an honors thesis, typically about 60 pages in length, and the satisfactory completion of a comprehensive oral examination in the subject area of the research. (Faculty mentors' names are in parentheses.)

Jacquelyn Blake-Hedges (Wustholz)

Synthesis and Characterization of Silica-coated Nanoparticles for Dye-sensitized Solar Cells

Charles Blevins (Kranbuehl)

Characterization of Polyamide-12; Hydrolysis Kinetics Comparison, and the Study of Crude-oil Pipeline Applications

Taylor Broome (Coleman)

A Mathematical Model of Renal Cell Carcinoma

Alex Chinn (Scheerer)

Methodology Towards the Construction of Bicyclo[2.2.2]diazaoctane Cores and Its Application Towards the Total Synthesis of Brevianamide B

Gregory Ginsburg (Kranbuehl)

Characterization of Polyamide-11 in Acidic Conditions

David Hill (Orwoll)

Design and Synthesis of Novel Hydrogen-Rich Polyimides for Radiation Shielding

John Lovette (Rice)

Effects of Coal Transportation on Heavy Metal Contamination in Wetland Environments Along the Virginia Peninsula

Shannon McCullough (Pike)

Copper(I) Bromide and Copper(I) Iodide Complexes of Aliphatic Diamine and Tetramine Ligands

Charlotte Platner (Poutsma)

Mass Spectrometry-based Proteomics Experiments and Peptide Fragmentation Studies of Lysine and its Homologues

Charles Wang (Pike)

Development of Copper(I) Iodide Detection Systems for Volatile Organic Compounds