

Honors 2016

Requirements for Honors in Chemistry include a program of research with readings from the original literature, honors thesis, typically about 60 pages in length, and the satisfactory completion of a comprehensive oral exam area of the research.

Isaac Alty

Hydrogen-Bonding Control of Solvatochromism and Non-Radiative Decay in the Fluorescence of 3-Amino-2-Naphthol Derivatives

Mark Broderick

Oligomers and Polymers of Copper(I) with Dicyanobenzene and Cyanopyridine Ligands

Josiah Hammack

Synthesis and Characterization of Interpenetrating Polymer Networks for Applications in Extraterrestrial Radiation Shielding

Carolyn Hartley

Iron Complexes for Photocatalytic Hydrogen Generation

Zachariah Hasan

Fragmentation Studies of Lysine and Lysine Analog Containing Tetrapeptides

Taylor Jacobs

Investigation of Unnatural Amino Acids as a Means to Modulate Protein Function

Anton Lachowicz

An Experimental and Theoretical Study of Proton Affinity in Proline-Containing Dipeptides: Exploring the "Proton Affinity Effect"

Frances Morin

Studies of the Development of Intermolecular Networks During the Curing of Coatings Using Single-pulse NMR Magnetic Resonance

Matthew Nelli

Total Synthesis of Peramine, a Defensive Alkaloid Produced by Endophytic Fungi of Cool Season Grasses
Anti-Insect Properties

Marshall Padilla

Utilizing Synthetic Tools to Address Biological Issues

Jacob Robins

Construction of Bicyclo[2.2.2]diazaoctane Alkaloids via Intermolecular [4+2] Cycloadditions

Hannah Smith

Peptide Fragmentation Studies on Doubly Charged Proline and Pipecolic Acid Containing Pentapeptides
Development for an HPLC/MS Instrument for Proteomics Experiments

Patrick Smith

The Effect of Ethanol, Methanol, and Water on the Hydrolytic Degradation of Polyamide 11

Christina Stephens

Creating a Computational Model of Prion Disease in the Human Neocortex

Jenna Tan

Probing Single-Molecule Photophysics of Rhodamines on TiO₂

Jill Williamson

Domino Reactions Involving Merged Cycloaddition and Cycloreversion Processes Affording Pyridine