

## Undergraduate Research Topics

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<b>Faculty Member</b>	<b>Research Topics</b>
<b>Gregory Dudley</b>	Enabling Technology for Chemical Synthesis Organic Synthesis for Future Medicines
<b>Fabien Goulay</b>	Laser Applied to Gas-Phase Chemistry Heterogeneous oxidation of nanoparticles
<b>Lisa Holland</b>	Modular Capillary Electrophoresis and Capillary Liquid Chromatography Bioanalytical Separations Biochemical Markers of Cardiovascular Disease Small Molecule Indicative of DNA Damage
<b>Jessica Hoover</b>	Organic and Inorganic Synthesis Organometallic Catalysis Developing New C-C Bond Forming Reactions Using Transition Metal Catalysts
<b>Justin Legleiter</b>	Understanding How Biological Surfaces Modulate Protein Aggregation Associated with Neurodegenerative Diseases – Alzheimer's and Huntington's Disease Application of Atomic Force Microscopy to atomic force microscopy technique development
<b>Blake Mertz</b>	Computational Biophysics of Membrane Proteins Molecular Docking to Facilitate Drug Development

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<b>Carsten Milsman</b>	Inorganic Synthesis and Photocatalysis Development of Photoluminescent Compounds Using Earth-Abundant Elements Photocatalytic Activation of Small Molecules for Solar Fuel Production and Green Chemistry Applications
<b>Brian Popp</b>	Organic and Bioorganic Synthesis Organometallic Catalysis Enantioselective Catalysis and Functional Materials relying on Supramolecular Principles
<b>Michelle Richards-Babb</b>	Novel Experiments for Large Enrollment General Chemistry Classes
<b>Björn Söderberg</b>	Organic Synthesis

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