**DEPARTMENT OF CHEMISTRY**
**MS DEGREE PROGRAM**

**CURRENTLY SEEKING APPLICANTS FOR**
**FALL 2016 & SPRING 2017**

**PROGRAM STRUCTURE**

- Base financial aid package: $20,000 + full tuition for applicants meeting faculty research needs
- Year-round hybrid Graduate Teaching and Research Assistantships
- MS degree candidates paired with committed faculty research advisor upon admission
- Flexible curriculum with option to take classes in a variety of science disciplines; Five academic classes (primarily undergrad/grad cross-listed) required for applicants with an undergraduate Chemistry major
- Typically less than 24 months to degree

**OTHER PROGRAM HIGHLIGHTS**

- Outstanding record of placing MS degree recipients in highly ranked PhD programs and industrial positions
- Excellent infrastructure for research, including a wide range of instrumentation
- Supplemental fellowships available for exceptional applicants
- Strong department research culture sustained by thirteen faculty with diverse interests

**APPLICATION DEADLINES**

February 15 to be considered for supplemental fellowships
April 1 for base financial aid package

[www.wm.edu/as/chemistry](http://www.wm.edu/as/chemistry)
**DIRECTOR OF GRADUATE STUDIES**
**PROFESSOR DEBORAH BEBOUT**

chemgradprogram@wm.edu • 757-221-2558

**TOP THREE REASONS TO PURSUE AN**
**MS CHEMISTRY DEGREE**

**EXCITING RESEARCH**
Fourteen faculty programs across the subdisciplines of Chemistry

**ADVANCE PROFESSIONALLY**
Gain more insight into your long-term professional interests;
Enhance competitiveness for PhD programs and employment

**GAIN INDEPENDENCE**
Attractive hybrid TA/RA financial aid package
**Faculty Research Interests**

**Christopher Abelt**  
*Department Chair*  
**Physical Organic**  
Fluorescent chemosensors of micro acidity and micropolarity.

**Deborah Bebout**  
*Director of Graduate Studies*  
**Bioinorganic**  
*In vitro* approaches to understanding the biochemistry of Zn(II), Cd(II) & Hg(II).

**Randolph Coleman**  
*In silico Biochemistry*  
Computational studies of pathogenesis.

**Elizabeth Harbron**  
**Physical Organic**  
Photochromic conjugated polymer systems for fluorescence intensity modulation.

**Robert Hinkle**  
**Synthetic & Physical Organic**  
Catalytic use of Bi(III) compounds for the synthesis of ethers.

**Nathan Kidwell**  
**Physical**  
Photoinitiated chemical reactions in the atmosphere using laser-based methods; dynamics of gas phase species.

**Lisa Landino**  
**Biochemistry**  
Oxidative damage to proteins, and its role in neurodegeneration and aging.

**William McNamara**  
**Inorganic**  
Artificial photosynthesis; electrocatalysts for H+ reduction.

**Tyler Meldrum**  
**Physical**  
Observing physical changes in chemical systems with NMR.

**Robert Pike**  
**Inorganic & Crystallography**  
Metal-organic polymers; responsive materials; X-ray crystallography.

**John Poutsma**  
**Physical Analytical**  
Thermochemical properties of unusual organic and biological species; gas phase ion chemistry.

**Jonathan Scheerer**  
**Synthetic Organic**  
Synthesis & biosynthesis of biologically active polycyclic natural products.

**Kristin Wustholz**  
**Physical**  
Applications of laser spectroscopy to solar energy and art conservation.

**Douglas Young**  
**Bioorganic**  
New tools for molecular biology; microRNA therapeutics; new unnatural amino acids for addressing biological problems.

*Updated December 2015*