

### **Chemistry Ph.D. Learning Goals**

1. Demonstrate a breadth of fundamental knowledge in all four traditional sub-disciplines of chemistry.
2. Master a chemical field of specialization.
3. Develop the ability to critically analyze and critique the chemical literature.
4. Independently develop and defend an original research proposal.
5. Execute an original research project, critically analyze research data, and effectively communicate the results in both oral and written formats.

### **Chemistry M.S. Learning Goals**

1. Demonstrate a breadth of fundamental knowledge in chemistry.
2. Master a chemical field of specialization.
3. Develop the ability to critically analyze and critique the chemical literature.
4. Execute an original research project, critically analyze research data, and effectively communicate the results in both oral and written formats.