Assessment Handout

UMD goals in *italics*.

1. **Knowledge and Scholarly Formation**

   1. **Students will demonstrate proficiency in a field of concentration.**

      1A. Graduates will demonstrate knowledge in one core specialization discipline of choice (Analytical/Environmental Chemistry, Biochemistry, Inorganic Chemistry, Organic Chemistry, or Physical/Computational Chemistry)

2. **Research and Methodological Skills Relevant to Field**

   2. **Students will demonstrate proficiency in the design and practice of research.**

      2A. Students will use appropriate methodology and experimental techniques to address a question or set of questions in chemistry.

3. **Communication Skills**

   3. **Students will demonstrate proficiency in scientific oral and written communication.**

      3A. Students will effectively communicate their research orally.

      3B. Students will effectively communicate their research in written form.

4. **Leadership and Collaborative Skills**

   4. **Students will demonstrate proficiency in leading a project, working collaboratively, and taking initiative in the laboratory.**

      4A. Students will effectively plan and set goals for conducting research projects.

      4B. Students will effectively work with a mentor and other students in research.

5. **Cultural Competence and Global Context Formation of the Field**

   5. **Students will be competent in cultural and international aspects of research.**

      5A. Students will demonstrate knowledge of cultural competence.