

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.