1. Understand and summarize ideas and concepts, into a coherent biological model, research problem(s), and research project that will go beyond the current boundaries of knowledge within Dairy Science.

2. Create research and scholarship that makes a substantive contribution to the field of Dairy Science.

3. Orally communicate complex ideas in a clear and understandable manner in a scientific, classroom, and/or industry setting.

4. Statistically analyze data, summarize the results in tables and/or graphs, and provide valid interpretation of the results.

5. Communicate in accurate written English and in the format of a scientific journal, complex ideas and research results.

6. Foster ethical and professional conduct and have knowledge in a broad range of areas that are important for their professional development.