

Student Learning Outcomes and Methods of Assessment

1. **Application of Science Learning.** Students will demonstrate a deep knowledge of molecular biosciences principles as assessed by mastery of content in their graduate science course work. In addition, students will apply molecular bioscience knowledge in their internship work. **This is assessed by performance in the graduate science coursework), the Internship report and the final examination.**
2. **Critical Thinking.** Students will demonstrate the general intellectual skills of critical thinking with respect to professional and scientific issues. **This is assessed by performance in all the course work.**
3. **Independent Learning.** Students will demonstrate an ability to learn and function independently, understand scientific, societal and technical issues they encounter and address them appropriately and professionally in the workplace. **This is assessed by the internship mentors who are asked to complete a Mentor Evaluation of Student form.**
4. **Teamwork.** Students will be able to work in teams comprised of scientists, business administrators and project managers during their internship experiences. Additionally students will demonstrate the ability to communicate effectively with their mentors and supervisors. **This is assessed by the submission of the completed Student Evaluation of Internship Experience form and the completion of the Mentor Evaluation of Student form.**
5. **Biosciences Design.** Students will be able to creatively apply design principles and methods to the solution of problems, recognizing the potential applications of business principles to molecular biosciences and biosciences principles to business and marketing. **This is assessed by the Internship report and the final examination (Pass), and the Mentor Evaluation of Student form.**
6. **Experimentation.** Students will be able to apply experimental methods and creativity to scientific investigation about bioscience, health and medical issues in the business sector. **This is assessed by performance in the graduate professional and science coursework.**
7. **Professional Ethics.** Students will be able to apply ethical principles to professional decision making. **This is assessed by performance in the graduate professional coursework and by the Mentor Evaluation of Student form.**
8. **Communication.** Students will be able to communicate effectively both verbally and in written form in the interdisciplinary worlds of scientists and non-scientists. **This is assessed by performance in the coursework, by the Mentor Evaluation of Student form and by the completion of the rubric for the Final Examination.**
9. **Career Awareness.** Students will be aware of diverse career options in which they will use their interdisciplinary training. **This is assessed through discussions during the Director's annual review and completion of the rubric for the Final Examination.**