

Biomedical Scientific Knowledge & Problem Solving Skills

1. Apply biomedical scientific knowledge in the biomedical, translational, and/or clinical sciences.
2. Critically analyze and evaluate literature in the biomedical sciences to discover and/or implement new knowledge and skills.
3. Demonstrate advanced understanding of a range of technical and conceptual approaches used in biomedical sciences research.

Core and advanced courses

BMSC 5400 Module Discussion Board Assignments

Internship/practicum performance

Lab meetings, research proposal meeting

Final practicum report/thesis defense

Use Scientific Methods for Experimental Design OR Research and Analytic Skills

1. Able to appraise, modify, and/or create and implement scientific methods towards addressing a problems in biomedical science.
2. Students in biotechnology program will also demonstrate technical competency in the laboratory.

BMSC 5400 Module Discussion Board Assignments; HOT Module Exam questions

Laboratory techniques

Internship/practicum performance

Internship/practicum proposal & defense

Communication Skills

1. Demonstrate effective oral and written communication skills.
2. Articulate the significance and implications of one's own work to scientific and lay audiences.

BMSC 5400 Module Discussion Board Assignments

Internship performance

Proposal, Final Practicum Report, Defense

Community service (e.g., FW Science Museum, Vision Screening)

Presentations

Courses; Sci Communication course

Professionalism, Ethics and Collegiality

1. Exemplify established professional codes of conduct, including following through on tasks, accepting responsibility for one's actions, and accurately representing actions and events.
2. Establish rapport with others that encourages a team-based, goal-oriented environment.
3. Demonstrate ethical behavior and comply with institutional policies, protocols, and procedures.

Nonprofessional conduct & sanctions, completion of required compliance training, attendance at required school activities

TBLs, IPE, lab collaborative behavior

IACUC, IRB, CITI, HIPAA, Biosafety

Career Development and Collaboration

1. Acceptance into professional school, graduate school or employed in an appropriate field after graduation
2. Engage in independent learning and networking.
3. Critically examine and synthesize ideas, methods, and practices of others.

BMSC 5400 Module Discussion Board Assignments

Professional school/graduate school acceptance; Field appropriate employment Internship; preceptorship
CRM, Biotech: advisory committee meetings; engagement during internship