

Biomedical Scientific Knowledge

1. Understand biomedical scientific knowledge in the biomedical, translational, and/or clinical sciences. *
2. Critically analyze and evaluate literature in the biomedical sciences to discover and 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, oral qualifying exam

#WIPS, journal club, lab meetings, oral qualifying exam, research proposal meeting

^ Application of skills: individual research, independent research, dissertation/thesis course, publications

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. #
3. Demonstrate teaching and mentoring skills. ^

*WIPS, journal club, presentations, publications, milestones

WIPS, lab meetings, milestones, presentations, Sci Communication course, recruitment

^ TA activities, Core Forum, summer undergraduate degree programs (SMART, TABS, JAMP, etc.), mentoring lab mates, journal club, community service (e.g., FW Science Museum, Vision Screening), IPE activities

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

Research and Analytic Skills

1. Demonstrate ability to develop and clearly state hypotheses and design aims and experimental approaches to test proposed hypotheses. *
2. Demonstrate mastery of technical and conceptual approaches. #
3. Demonstrate scientific rigor and reproducibility through accurate data analysis leading to sound scientific conclusions. ^

*milestones

lab rotations, progress report, publications, presentations

^ lab notebooks, research proposal, milestones, publications, grant applications, presentations

Career Development and Collaboration

1. Engage in independent learning and networking. *
2. Critically examine and synthesize ideas, methods, and practices of others. #
3. Develop and implement an Individual Development Plan and respond to constructive feedback. ^

*scientific meetings, workshops, research proposal, milestone, seminar speakers, IPEs
milestones, WIPS, journal club,

Approved by Graduate Council 2/14/2019