

- K8 Knowledge of the principles that govern ethical decision making in the design and conduct of research projects, including the publication and reporting of results.
- K9 Knowledge of the various approaches used to develop research proposals and to raise funds to finance biomedical research projects.

Part II: A MOME graduate will be skilled

The MOME faculty has designed a curriculum in which research and teaching skills are learned in concert with the knowledge acquired in the classroom and through independent reading. Students have the opportunity to gain these skills under the mentorship of their major advisor, through direct participation in research projects (laboratory-based and otherwise), through direct contact with the laboratory research team, and through collaborations and interactions with expert scientists from within and outside the institution

Before graduation, a student will have demonstrated, to the satisfaction of the teaching faculty and their graduate advisory committee, skills in the following categories:

- S1 The ability to perform most basic laboratory procedures that are commonly used in the track laboratories.
- S2 The ability to perform advanced/specialized procedures that are necessary for the completion of the student's thesis research project(s)
- S3 The ability to design and complete independent research projects, including the introduction and optimization of unfamiliar techniques and the development of new research techniques
- S4 The ability to perform productively as a member of a research team and train junior students in routine and basic laboratory techniques
- S5 The ability to recognize hazardous procedures in the laboratory and follow appropriate precautions to protect the laboratory and institutional personnel
- S6 The ability to communicate effectively, both verbally and in writing, with other students, post-doctoral fellows and faculty members, as well as with national and international collaborators
- S7 The ability to present their results at local, national and international meetings as well as to be able to organize and chair local meetings
- S8 The ability to retrieve biomedical information from electronic databases and other sources; to manage, and utilize the information, including by use of bioinformatics, in order to develop hypotheses to address scientific issues and the

means to test them and to discuss the results in the context of reports in the literature.

- S9 The ability to write and submit manuscripts and to communicate effectively with scientific journal editors and reviewers
- S10 The ability to write a comprehensible research proposal and raise funds to support it from federal, state and other funding agencies

Part III. A MOME graduate will be professional

UT/COM believes in the importance of molding the character of students, and dedicating curricular and extracurricular time to the development of student's ethical standards, humanistic beliefs, and behaviors. Before graduation, students will have developed:

- P1 Ethical, responsible, reliable, and dependable behavior in all aspects of their professional lives, and a commitment to the profession and society.
- P2 Honesty and integrity in all interactions