

College of Medicine
 Department of Biomedical Sciences
 Table 3: Student Learning Outcomes

Doctorate in Biomedical Sciences

Outcome Type	Outcome	Assessment & Evaluation Process
Student Learning	<p>Upon completion of the course of instruction, the student will be able to perform at a level that will allow him/her to progress through and successfully complete the Preliminary Examination and Doctoral Dissertation requirements.</p> <p>Students will meet time markers for completing required courses, selecting Supervisory Committee members, completing the Preliminary Examination and completing and defending their Dissertation. Student progress will be monitored annually by the Supervisory Committee with written reports provided to the Program Director. All students are expected to complete Candidacy requirements within three years of admission to the Program. We expect that all students will attempt the Preliminary Examination within 30 months after matriculation, and at least 75% of students will succeed on the first attempt of the Preliminary Examination. We expect that 50% of students who complete Candidacy requirements will submit and defend their Ph.D. dissertation within five years after matriculation, and 90% will defend their dissertation within six years. We expect that at least 95% of students will succeed in the first defense of their dissertation.</p>	<p>Student progress is monitored annually by the Supervisory Committee of the respective student and written reports are provided to the Program Director and maintained in the graduate program assistant's office. These reports are written when students meet once a year with the graduate committee faculty members for an annual review. Students receive advice on their course of study and the steps to be taken towards completion of their Ph.D. Students whose annual reviews are exceptional are awarded the College of Medicine Randy Rill Award for Graduate Studies. Method(s) Faculty Committee Evaluation of Dissertation, Thesis or Treatise, Department Assessment, and Departmental Exam/Comprehensive Exam/Preliminary Exam.</p>
Student Learning	<p>Upon completion of the course of instruction, the student will be able to perform at a level that demonstrates excellence in oral and written communication and research skills and will be successful in scientific presentations and publications as judged by scientific peers in their respective disciplines. Advanced students and recent graduates will make tangible contributions to scientific knowledge in biomedical sciences.</p>	<p>All students will give two or more evaluated presentations in Department seminar programs. All students will give at least one presentation of their dissertation research at a regional or national scientific meeting. We expect that at least 95% of students will successfully defend their dissertation on the first attempt. We expect that 95% of students will be a significant contributing author on a manuscript submitted to a peer-reviewed journal at the time of their dissertation defense, and that at least 75% of students will be a significant contributing author to one or more manuscripts published or accepted in a peer-reviewed journal at the time of their dissertation defense. In addition we expect that at least 50% of graduates will be a contributing author to two or more manuscripts published or accepted in a peer-reviewed journal within a year of graduation.</p>
Program Outcome	<p>On completing the program graduates will demonstrate employable skills in interdisciplinary research areas of biomedical sciences.</p>	<p>Graduates will be surveyed at the time of their graduation and at regular intervals afterwards. We expect that at least 75% of graduates will have arranged postdoctoral or comparable professional employment at the time of graduation, and that 95% will have assumed a professional position within 12 months of graduation. We expect that graduates will be employed in a variety of circumstances within five years of graduation; including academic, industrial and government positions in a diversity of biomedical science sub-disciplines.</p>

Source: FSU Institutional Effectiveness Portal, 2016-17.

College of Medicine
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 Table 3: Student Learning Outcomes

Masters in Biomedical Sciences

Outcome Type	Outcome	Assessment & Evaluation Process
Student Learning	Upon completion of the course of instruction, the student will be able to describe the fundamentals of the gross anatomy, embryology, imaging and cell structure and function of the human body as a foundation for understanding the causes, diagnoses and treatment of clinical disorders; perform the basics of medical history taking and physical examination techniques; discuss and analyze in context common ethical issues faced by physicians and other healthcare providers in clinical practice, including physician-patient disagreement about treatment plans, patient confidentiality, and conflicts of interest; as well as specific issues involving reproductive/early life care and end-of-life care; and develop a working knowledge of applied statistics in research. Successful completion of these learning objectives and earning a B grade in all courses, will result in the students' obtaining a Master's Degree and being accepted into medical school or another professional or graduate school.	At least 95% of the students will obtain a Master's Degree and will be admitted to medical school. Method(s) Project Evaluation, Written Report or Essay, Capstone Course Evaluation, Faculty Committee Evaluation of Dissertation, Thesis or Treatise, Instructor Constructed Exam, Performance on Licensing or other External Examination, Behavioral Observation, Course Report, and Class Performance or Presentation.
Student Learning	By the end of the year, the program will demonstrate continued selection of a diverse student body who will have a high success rate of admission to medical school, will pass the USMLE Step 1 Exam, will have a high success rate of graduation from medical school, and who will have a majority choose a primary care residency for further training.	At least 90% of students admitted to the Bridge to Clinical Medicine Masters Program will come from groups underrepresented in medicine and at least 20% will come from rural communities. At least 60% of Bridge students who take the USMLE Step 1 Exam at the end of their second year of medical school will pass it on the first attempt. Students graduating from the Masters in Biomedical Sciences, Bridge to Clinical Medicine Program will have a greater than 90% four-year graduation rate from medical school and at least 60% will choose a primary care residency program. Method(s) Performance on Licensing or other External Examinations, behavioral observations, performance or presentation, problem-solving exercises, project evaluations, written report or essay, and enrollment statistics.
Student Learning	Upon completion of the course of instruction, the student will be able to formulate and develop a research question, complete an IRB application, and conduct a community-engaged research project and preceptorship, write and submit a research report and present the research and findings in an oral presentation to faculty. Students will submit a reflective journal of their fall and spring semester activities.	At least 95% of the students will successfully complete the community-engaged research project, write a research report, submit a reflective journal of activities, and present and discuss the research to faculty and peers. An annual luncheon, sponsored by the COM, is held as the venue for student presentations of their research. Method(s) Project Evaluation, Written Report or Essay, Faculty Committee Evaluation of Dissertation, Thesis or Treatise, Course Report, Internship Evaluation of Specific Activity, Class Performance or Presentation, and Portfolio of Student Work.

Source: FSU Institutional Effectiveness Portal, 2016-17.