

BIOPHYSICS, PHD - JENKINS BIOPHYSICS PROGRAM

The Jenkins Biophysics Program is designed for students interested in obtaining a doctorate in biophysics. Students joining this program carry out their doctoral research with a faculty member in the Department of Biophysics (<http://biophysics.jhu.edu/people/>). This program is financially supported through departmental funds, and therefore can support international students who are ineligible for NIH training grants.

Admission Requirements

The annual application deadline is December 1.

Please see the Biophysics website (<https://biophysics.jhu.edu/graduate/jenkins-biophysics-program/>) for requirements and how to apply to the Jenkins program.

Program Requirements

The following courses are required:

Code	Title	Credits
AS.250.610	Savvy Science Seminars	1
AS.250.615	Biophysics Writing Workshop	1
AS.250.620	Optical Spectroscopy	2
AS.250.621	Cryo-EM Module	1
AS.250.622	Statistics and Data Analysis	1
AS.250.623	Macromolecular Simulation	1
AS.250.624	NMR Spectroscopy	1
AS.250.625	Single Molecule Measurements	1
AS.250.649	Introduction to Computing in Biology	2
AS.250.685	Proteins & Nucleic Acids	3
AS.250.689	Physical Chemistry of Biological Macromolecules	3

In addition to classes, students are required to attend seminars given by outside speakers invited by the Biophysics Department, given on a weekly basis. Meeting and hearing about the work of others provides an excellent opportunity to observe different styles of communicating science, learn about career paths of others, and of course find out what key scientific questions are being pursued in different fields.

Teaching is an important mission of the Department of Biophysics. Students in the Jenkins Biophysics Program are required to serve as teaching assistants (TAs) for four semesters, which lasts the first two years. The TAs provide essential help in running laboratory and computer-based undergraduate courses, and it is through these assistantships that graduate students can be given financial support necessary for tuition and stipends.

After being admitted to the program, students must pass a Graduate Board Oral (GBO) exam to continue their dissertation research at Johns Hopkins University. This exam is traditionally taken in the spring of the second year. The exam committee consists of five faculty members, and the student provides oral answers. While generally focused on biophysics, questions can also extend to topics in biology, chemistry, and physics. Students who feel they may lack a strong background in certain areas are encouraged to improve their knowledge by taking elective classes and self-study during the first two years.