

Johns Hopkins University

Biomedical Engineering Innovation: an online course for high school students.

Developed by Johns Hopkins faculty, Biomedical Engineering Innovation (BMEI) introduces biomedical engineering to high school students by:

- modeling biological systems,
- designing experiments to test those models, and
- introducing engineering principles to solve design problems that are biological, physiological, and/or medical.

Students will model human efficiency, the arm, and the cardiovascular system. Students are expected to apply their knowledge of math, physics and biology to solve practical problems encountered in biomedical engineering. Please see [our website](#) for more information.

To be eligible for this program, you must:

- have completed algebra 2, physics, biology, and have knowledge of the trigonometric functions,
- have As and Bs in your high school math classes, and
- be a current high school student or recent graduate who has not yet started college.

BMEI is a fully online course with most elements being totally asynchronous, meaning they can be completed at your convenience within a given time period.

Biomedical Engineering Innovation is offered during the fall, spring and summer semesters:

- **Spring 2020** - January 27 to May 14, 2020
- **Summer 2020**
 - Summer 10 week: May 26 to July 31, 2020
 - Summer Term 1: June 1 to July 3, 2020
 - Summer Term 2: June 22 to July 31, 2020
- **Fall 2020** - August 31 to December 7, 2020

Tuition is \$2850 and Lab Fees are \$275. **Financial aid is available.**

The application fee is \$85.

Click [here](#) for more information.

Click [here](#) to apply now!

Students who earn an A or B grade in the course receive 3 credits from Johns Hopkins University.

If you are accepted to and matriculate as an undergraduate student at JHU, the credits awarded by JHU for this BMEI course are available to count towards your undergraduate degree at JHU. Credits may be applied towards your total required credits to graduate.

Admission to the Biomedical Engineering Innovation Program does not automatically guarantee admission into the undergraduate program at Johns Hopkins University.