



STEM Edge - **AP Exam Preparation Science & Math Enrichment Series** for High School Students

Long Island University's robust new STEM (science, technology, engineering, math) education enrichment is giving high school students enhanced comprehension, competency and the confidence they need for high-stakes exams and current classwork.

As the leader in healthcare sciences and pharmaceutical science programs, Long Island University (LIU) is uniquely suited to support high school students' college readiness in mathematics and science (STEM). Now, in collaboration with Learn America (an organization also dedicated to advancing science and mathematics education) LIU has launched a series of STEM focused preparatory courses supporting students' high stakes testing needs in NYS Regents exams, AP exams and SAT's.

"One important key to success is self-confidence.

An important key to self-confidence is preparation." —Arthur Ashe

How does this unique individualized preparation support students on multiple levels?

With jam-packed course loads, students are looking for ways to succeed on exams in preparation for college. Individualized learning strategies are critical in providing the support they need. LIU's new STEM Edge is a readiness and enrichment program, designed to help students at all levels of ability in high school math and science subjects.

The program begins with an assessment to identify the individual student's strengths and weaknesses. Using this information an individualized learning plan is created by experienced high school and college master educators. Then on LIU's learning portal, created in collaboration with Learn America, students follow their personalized learning path.

On the portal students will find detailed easy-to-follow explanations by topic, numerous examples and related animated videos. Students have the opportunity to take self-assessments and receive periodic instructor monitored assessments. Throughout the course, faculty and teaching assistants will moderate on-line forums where students can post questions and get answers. Towards the end of the course, LIU will host two-hour long intense course dialogs addressing problematic areas identified by students taking the course. Students can join the conversation in person on the LIU Post campus, or streamed live remotely. One week prior to their actual test students take a Ready Review exam, to identify any remaining comprehension gaps.

Learn more & Enroll
learnamerica.liu.edu/AP.html
or call 516-299-2236

The 7-Step Individualized STEM Edge process

Step 1

Pre-Assessment

A student takes a pre-assessment exam to determine individual strengths and weaknesses.

Step 2

Personally Planned Curriculum

Based on this assessment a student will follow their personally designed curriculum on the course learning portal. Here they will view detailed easy-to-follow explanations by topic, numerous examples and related animated videos. Self-assessment quizzes are provided to confirm a student's proficiency prior to moving on to next topic.

Step 3

Periodic Formative Updates

Our instructors will monitor each student's individual progress and periodically provide formative assessments.

Step 4

Interactive Moderated On-line Forum

All students will have access to a course specific, moderated on-line forum where they are encouraged to participate in discussions with teaching assistants and faculty who will monitor/mentor them.

Step 5

Personalized Progress Report

Each student receives a progress report prior to the instructor-led review dialogs. This report will allow the student to focus on strengthening any remaining areas of concern during the last few weeks of the program.

Step 6

Intense Interactive Review Dialogs

Faculty led review dialogs are conducted in a classroom on the LIU Post campus. Students are welcome to come and participate in person, or connect remotely via live streaming. All students have the opportunity to submit questions while the dialog is live. Sessions will be recorded and made available on-demand.

Step 7

Ready Review - One Week Prior to Exam

Each student will be given a final summative assessment, providing them with information on their level of exam readiness.



Practice Tests Available Anytime

Students may access simulated practice tests designed by our experts, as well as previously administered actual exams.

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STEM Edge Series AP Exam Prep Course Catalog

AP – Calculus AB - Cost: \$149

The AP Calculus AB course focuses on content in differential and integral calculus. Topics include: limits, continuity, approximations, functions (graphic, numerical, and analytical analysis), derivatives, integrals, the Fundamental Theorem of Calculus, applications and modeling.

Graphing calculator required.

AP – Calculus BC - Cost: \$149

The college-level AP Calculus BC is an extension of the AB course. Topics include: limits, continuity, approximations, functions (graphic, numerical, and analytical analysis), derivatives, definite and indefinite integrals, the Fundamental Theorem of Calculus, applications, modeling, series and sequences

Graphing calculator required.

AP – Statistics - Cost: \$149

The AP Statistics course focuses on content about the collection, analysis and interpretation of data. Topics include: univariate, bivariate and categorical data, surveys, observations, experiments, collection of data, probability, distributions, and simulations.

Graphing calculator with statistical capabilities required.

Science Courses Start : April 2017

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