

## ***Introductory Mechanics ReView Course for Teachers and Experienced Students***

Register, <https://www.edx.org/course/mitx/mitx-8-mrevx-mechanics-review-1780#.U2hWnMbHzNH>

Registration is open for a free online MIT-level course in Introductory Newtonian Mechanics for people with some existing knowledge of mechanics who want to improve their conceptual overview of Mechanics and their problem-solving skills. Designed by MIT professor David Pritchard and his education research group, this course employs a newly developed method for organizing mechanics knowledge that facilitates an expert approach to problem solving, and many challenging problems to solve. The course contains all topics in the Advanced Standing Mechanics C syllabus. It runs May 29 → Aug 24, 2014 with the first quiz due June 22. Individuals who satisfactorily complete the course will receive an edX certificate of completion. A special section for teachers has discussion forums on how to teach the various syllabus topics and offers an opportunity to obtain CEUs.

This Summer Mechanics ReView Course is for people who want to increase their understanding of Newtonian Mechanics, their problem-solving ability, and who enjoy working on challenging problems. This course is excellent preparation for advanced standing exams, and especially College Board's Advanced Placement Mechanics C test. Teachers will benefit from a separate section with discussion forums on how to teach each topic; successful teachers will be eligible to obtain 8 CEU credits through AAPT. Those who only want to browse are also welcome.

Our pedagogical approach, [Modeling Applied to Problem Solving](#), presents a unified conceptual framework for the standard mechanics syllabus that closely ties into solving problems. It improves students' overall expertise and general problem-solving skill, and leads to [enhanced performance in students' subsequent physics course in Electricity and Magnetism](#). The course imparts [more conceptual learning](#) than traditionally taught on-campus courses.

8.MReVx is organized into weekly modules each containing a short e-text with supplemental videos, simulations, and embedded questions. Each module features [homework problems at three levels](#) (including challenging MIT exam-like problems) and a weekly quiz. Discussion forums follow each module and problem, enabling participants to learn from each other and from our staff of alumni – many of them teachers.

The course is offered for free on the MIT-Harvard edX.org platform. Registration is open now. The course starts May 29, but students can register and take the first test on June 22 without any loss of credit. Materials are posted at least 3 weeks in advance to accommodate those wishing to finish early or to take a vacation.

Prospective students are encouraged to share this announcement with their friends and colleagues, and to recommend this course to accomplished students or physics teachers whom they think would enjoy and benefit from our approach.

Register: <http://edX.org/courses> (register for 8.MReVx: Mechanics ReView)

See our Research: [REsearch in Learning Assessing and Tutoring Effectively](#), <http://RELATE.MIT.edu>

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