

Abstract Submitted
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Multimedia Modern Physics for High School Teachers KELLY CRAMER, Harvard-Smithsonian Center for Astrophysics — Many of the research programs at the frontiers of physics are undergirded by basic ideas that are familiar from classical physics: forces, conservation of mass and energy, etc. Using these ideas as a springboard and developing the ideas of modern physics such as quantum mechanics, general relativity, and nuclear interactions, Physics for the 21st Century will take learners to the next level. The course opens the doors to an exciting world of ideas, to help bridge the gap between what is being taught in high school and college and what drives physics researchers and theoreticians. The course is designed by Harvard Professor of Astronomy and Physics, Christopher Stubbs, with units developed by a distinguished group of physicists from Harvard and other top universities and research centers. The course is divided into 11 units, grouped into three broad areas: the universe at its smallest (sub-atomic particle physics), the universe at an everyday scale (atomic and molecular physics), and the universe at its grandest (cosmology).

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