



# SUMMER PHYSICS SEMINAR FOR SENIORS

Kellenberg Memorial High School is pleased to announce the Summer Seminar in Physics for the members of the senior class of 2024.

Historically, college science and particularly physics courses have often been very challenging for many students, for a variety of reasons. Science is a difficult topic on its own. Often other factors magnify this difficulty including: other students who are extremely competitive, large lecture classes, and learning in a new environment all of which add to the challenge of understanding the material of these courses.

The SENIOR PHYSICS SEMINAR is designed to help students to be successful in their collegiate classes. This seminar has proven over the years to be very effective in helping seniors to be even better prepared for their demanding college courses.

## WHO SHOULD PARTICIPATE?

Any student planning to take calculus in college will benefit from the Summer Calculus

Seminar including:

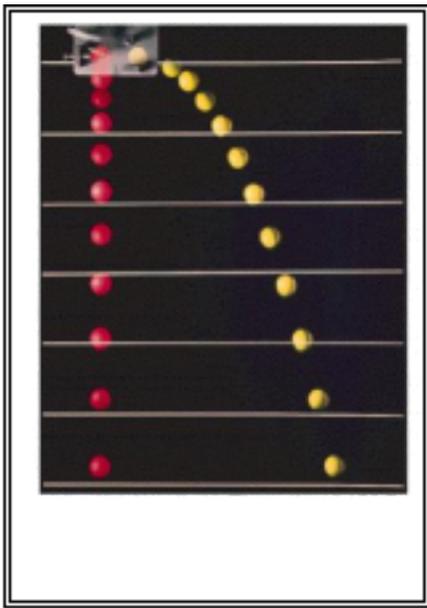
Engineering Majors

Science Majors (especially Physics, Chemistry and Biology)

Pre-Med Majors

Pharmacy and Nursing Majors

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Falling balls are analyzed using principles of physics.

## What Topics will be covered in the Summer Physics Seminar?

The Physics Seminar covers Newtonian mechanics which analyses motion in two and three dimensions.

Thermodynamics treats the nature and properties of heat. The interrelationship of magnetism and electricity is explored and both static and current forms of electricity are treated. Optics studies the principles of light, including

the spectrum, reflection and refraction. Nuclear physics and quantum mechanics extend the classical topics into more sophisticated realms. A combination of class presentations, problem solving sessions, laboratory exercises and data analysis using mathematical and graphical methods will be used to cover the material at a college level.

## When is the Seminar?

The Summer Physics Seminar meets on Tuesdays and Thursdays for two hours each day beginning on May 21 and concluding on June 13. The Seminar will not meet on May 23 or May 30.

The Seminar will meet in person in the Physics Lab, Room 254. The pattern of alternate meeting days and longer session times is designed to be more like collegiate classes.

## COMMENTS FROM PAST SEMINAR PARTICIPANTS:

*"This program was very helpful—I did not feel lost like so many of my classmates, especially during the first weeks of college class."*

*"I was surprised how much material I knew as the professor went over the material. The notes given during the seminar were really helpful."*