

Columbia University: State Pre-College Enrichment Program (S-PREP)
The State Pre-College Enrichment Program (S-PREP) is a free high school and college preparatory program designed for 7th - 12th grade students who are interested in prusting a career in medicine or re...

https://www.ps.columbia.edu/sprep

Grades: 9,10,11 Program date: 45474 Due date: Apr 14,2024 Fees: Free

Arizona State University : Science and Engineering Experience (SCENE)

The SCience and ENgineering Experience (SCENE) provides cutting-edge science research experience to high school sophomores, juniors and seniors. Student work in state-of-the art labs at Arizona State...

https://eoss.asu.edu/access/scene Grades: 9.10.11

Program date: 45505 Due date: July 31,2024

Fees: Free

Physics

Stanford : The Stanford Program for Inspiring the Next Generation of Women in Physics (SPINWIP)

It is is a virtual summer outreach program hosted by the Stanford Physics Department and the Kavli Institute for Particle Astrophysics and Cosmology, designed to get high-school girls excited about p...

https://physics.stanford.edu/inclusion/spinwip

Grades: 9,10,11,12 State: CA Program date: July 8-26,2024

Due date: May 1,2024 Fees: Free

Manhattan College Summer Program :- Summer Engineering Awareness Program

For 40 years, Manhattan College has introduced high school students to careers in engineering, math and science through the Summer Engineering Awareness Program. This 10-day intensive program for r... https://manhattan.edu/academics/schools-and-departments/school-of-engineering/high-school

programs.php State: NY

Program date: July 8-12, July 15-19,2024 Due date: Apr 26,2024

Fees: Free

Physics

Priysics
The University Of Utah: SUmmer Youth Education
- Intro to AP Physics
If you plan to take AP Physics 1, 2, or IB physics next
year, this workshop is for you! This class will mostly
cover Newtonian mechanics, including, but not limited
to kinematics. Newton's laws of mo...

https://continue.utah.edu/youth/class/yehs 205 intro to ap physics age 1 4 17 Grades: 9

State: UT Program date: July 29-Aug 2,2024

Due date: May 2024 Fees: \$175

Governor School for Science & Mathematics Foundation : Virtual Physics for Virtual Worlds

What does physics have to do with animation and virtual reality? How does the computer know whether you scored in your basketball video game? Computer programs with objects that push, pull, and run in...

https://www.scgssm.org/summer-camps/summer-stem-

Program date: June 17-21,June 24-28,2024 Due date: May 15,2024

Macalester College : MITY-EYM -> Astrophysics The Lives Of The Stars & Fate Of Our Universe

Do you ever wonder how we know so much about the stars and galaxies around us? Or look up at the night sky dreaming of what distant solar systems might be like? In this course students will learn ho...

https://mity.org/programs/online-programs/expand-

Grades: 9.10.11 Program date: July 8 - 19 ,2024 Due date: May 1,2024 Fees: \$300

Xavier Univ of Louisiana : Pre-College Program -**PHYSta** 

PHYStar will focus on concepts and skills for students entering high school physics in fall 2023. Students wil gain a basic understanding of important physics concepts through interactive lessons and...

https://www.xula.edu/pre-college-programs/index.html

State: LA Program date: June 3-21,2024 Due date: May 20,2024 Fees: \$550

Boston Leadership Institute : Physics Of Space

Ever wondered if there is other life out there? What is the weather like on Mars or Proxima B? How do planets and solar systems get formed? What is dark matter? Is a black hole really a hole? Do pulsa... https://www.bostonleadershipinstitute.com/physics-of-

Grades: 9,10,11 State: MA

Program date: June 24 – 28,August 5 – 9, 2024

Due date: May 15,2024 Fees: \$599

Boston Leadership Institute : Physics Edge

Traditionally one of the most difficult high school science courses, this program will make learning the subject of physics more accessible and give you the edge to master your high school Physics cla... https://www.bostonleadershipinstitute.com/physics-

Grades: 10,11 Program date: August 5 - 9, 2024

Due date: May 15,2024 Fees: \$599

Have you ever wondered why continents move and oceans evolve? Are you curious about geological hazards such as earthquakes and volcanic eruptions? Do you want to know how the Earth works? Come

https://4h.unl.edu/big-red-camps

Grades: 9,10,11 State: NE Program date: June 9-14,2024

Due date: May 20,2024 Fees: \$625

Stony Brook: Physics Summer Program

In an active, hands-on format, students will be introduced to classical branches of physics, incluexperimental measurement, Newtonian Mecha electricity, waves and optics.

https://www.stonybrook. edu/commcms/istem/students/grades\_5-12/summer/physics.php

Grades: 9,10,11 Program date: July 15-19, 2024 Due date: May1,2024

Hamline University: High School Physics Camp

Hamline physics summer camps give students the opportunity to dive into a topic, gain hands-on experience, meet experts in the field and learn about Minnesota companies that take the lead. ....

https://www.hamline.edu/academics/undergraduate/physics/microscope-

Grades: 9,10,11 Program date: July 22-26,2024 Due date: May 31,2024

Fees: \$698

Worcester Polytechnic Inst : Commuter Launch -

How do airplanes fly? How do batteries work? Physics is the science of matter, energy, motion, and force. You will investigate the world of modern physics through hands-on activities and simulations, ....

https://www.wpi.edu/academics/pre-collegiate/summer-programs/launch/course-information

Grades: 10,11 State: MA Program date: June 24 - 28, 2024 Due date: Apr 30,2024 Fees: \$795

Stony Brook : Engineering Summer Program

The goal of this one-week program is to introduce students to electrical engineering and also to computer programming. No background in programming, physics, or advanced mathematics is necessary. Stu... https://www.stonybrook.

edu/commcms/istem/students/grades\_5-2/summer/engineering.php State: NY Grades: 9,10,11

Program date: July 29-Aug 2,2024

Due date: May1,2024 Fees: \$800

Governor School for Science & Mathematics Foundation : GoSciTech - Astrophysics: Stars and Galaxies

Where do black holes come from? How do stars change over time? What really happened in the Big Bang? Using experiments and physical theories, we will develop a better understanding of stars, galaxies https://www.scgssm.org/summer-camps/goscitech-residential-camp

Grades: 9,10,11 State: SC Program date: June 16-21, June 23-28, July 7-12, 2024

Due date: May 15,2024 Fees: \$830

ONLINE - Education Unlimited : Astrophysics

The Astrophysics course will establish a firm introduction of the forces at work upon the fabric of the universe and how these dynamics interplay to create the structure and harmony that we observe to...

https://www.educationunlimited.com/camp sessions/display/camp/astrophysics-9-11

Grades: 11,12 State: CA Program date: June 10-14, July 15-19, July 29-Aug 2m2024

Due date: May 2024 Fees: \$995

Seton Hall University : Giant Leap Summer Science Program -Mechanics

High school students have an opportunity to gain t and advanced hands-on experience to prepare for world of science research. Discover your potential Astronomy, Mechanics, Electronics and R...

https://www.shu.edu/summer/giant-leap.htm

Grades: 10.11 State: NJ Program date: July 22-26,2024 Due date: June 2024 Fees: \$1200

Tufts University : Pre-College Programs -Physics I and II

Principles of classical mechanics, fluids, heat, thermodynamics. Lectures, recitations, laboratori Calculus based. Also check General Physics II https://universitycollege.tufts.edu/courses/...

https://universitycollege.tufts. edu/courses/browse/general-physics-i-lab-recitation

Program date: July 1 - August 9, 2024 Due date: May 1, 2024

# Fees: \$3,030

Tufts University : Pre-College Programs -Organic Chemistry I

Structure, bonding, conformational analysis, functional groups, and stereochemistry. Organic reactions, synthesis, and mechanisms including acid/base reactions, nucleophilic substitution and eliminati...

https://universitycollege.tufts. edu/courses/browse/organic-chemistry-i-recitation

Grades: 10,11 State: MA Program date: July 1 - August 9, 2024 Due date: May 1, 2024

Physics

Fees: \$3,030

Illinois Institute: Chicago Commuter Summer -Other Worlds: Science Meets Storytelling

The psychology summer program is designed for high school students who want a glimpse into how psychology is a science. Learners will get a good idea of what the study of psychology is like at the col...

https://www.iit.edu/academics/elevate-collegeprep/summer-programs/chicago-commuter-programs/other-worlds-science-meets-storytelling

Grades: 9,10,11,12 State: IL Program date: June 17-21,June 24-28,July 15-19,July 29-Aug 2,2024

Due date: May 3,2024 Fees: \$1,500

Univ of Rochester : Online Program - General Physics I & II

Physics I: First semester of a two-course sequence intended for students in the life sciences and others desiring a working knowledge of basic physics. Newtonian particle mechanics, including Newton's... https://enrollment.rochester.edu/precollege/non-credit-

Grades: 9,10,11,12 Program date: May 20-June 28(I), July 1-Aug 9,2024 (II)

Due date: May 20,2024 Fees: \$1.500

Physics Univ of Rochester : Online Program - Mechanics

Course will make extensive use of geometry, algebra and trigonometry and simple integration and differentiation. Prior knowledge of introductory calculus (simple integration and differentiation) is re...

https://enrollment.rochester.edu/precollege/non-credit-

Grades: 9,10,11,12 State: NY Program date: May 20-June 28,2024

Due date: May 20,2024 Fees: \$1,500

Univ of Rochester : Online Program - Electricity &

Second semester of a three-course sequence for students planning to major in physics, other physical sciences and engineering. Coulomb's Law through Maxwell's equations; electrostatics, electrical pot...

https://enrollment.rochester.edu/precollege/non-credit-

Grades: 9.10.11.12 Program date: July 1-Aug 9,2024 Due date: May 20,2024



### **BUILDING A BRIGHT FUTURE**



### Univ of California - Irvine : Summer Bridge - Dynamics : ONLINE

Dynamics: Orticine Introduction to the kinematics and dynamics of particles and rigid bodies. The Newton-Euler, Work/Energy, and Impulse/Momentum methods are explored for ascertaining the dynamics of particles and rigid...

### https://summer.uci.edu/programs-bridge/

Grades: 10.11.12 Program date: Jun 24-Aug 1,2024 Due date: June 15, 2024 Fees: \$1,500

### Univ of California - Irvine : Summer Bridge - Introduction to Thermodynamics : ONLINE

Thermodynamic principles; open and closed systems representative of engineering problems. First and second law of thermodynamics with applications to engineering systems and design...

https://summer.uci.edu/programs-bridge

Grades: 10.11.12 State: CA Program date: Jun 24-Aug 30,2024

Due date: June 15, 2024 Fees: \$1,500

### Univ of California - Irvine : Summer Bridge - Basic Physics I: ONLINE

Introductory physics with applications to life sciences. Vectors; motion, force, and energy. Corequisite: MATH 2A or MATH 5A. Prerequisite: A score of 4 or higher on the AP Calculus AB exam, or a scor...

https://summer.uci.edu/programs-bridge.

Grades: 10.11.12 Program date: Jun 24-Aug 1,2024 Due date: June 15, 2024 Fees: \$1,500

# Univ of California - Irvine : Summer Bridge - Basic Physics II

Introductory physics with applications to life sciences. Energy and thermodynamics; waves and sound; optics. Prerequisite: PHYSICS 3A or AP Physics C: Mechanics. AP Physics C: Mechanics with a

https://summer.uci.edu/programs-bridge

Grades: 10,11,12 Program date: Jun 24-Aug 1,2024 Due date: June 15, 2024 Fees: \$1,500

## Univ of California - Irvine : Summer Bridge - Classical Physics

Topics include force, energy, momentum, rotation, and gravity. Corequisite: MATH 2B. Prerequisite: Recommended: PHYS 2 or (MATH 2D and (CHEM 1C or CHEM H2C or CHEM M3C) or CHEM M2C) or AP Physics C: M...

https://summer.uci.edu/programs-bridge/

Grades: 10.11.12 Program date: Jun 24-Aug 1,2024 Due date: June 15, 2024 Fees: \$1,500

### Boston Leadership Institute : Astrophysics

Since the advent of human life, we have looked to those luminescent points in the night sky with wonder and curiosity. How do we know the distances to various stars and planets? What is dark matter? W...

https://www.bostonleadershipinstitute.com/astrophysics/ com/astrophysics Grades: 9,10,11

Program date: July 1-19, 2024 Due date: May 15,2024 Fees: \$1,797

### Boston Leadership Institute : Applied Physics &

Englishearing
Tighishands-on program, designed for high school students who are preparing to take high school Phy or have already completed it, covers critical laws of flight, gravity, and motion, as well as bro...

https://www.bostonleadershipinstitute.com/applied-

pnysics-engineering/ Grades: 9,10,11 Program date: July 1-19, 2024 Due date: May 2024 Fees: \$2,200

## Georgetown University : College Credit Courses - Principles of Physics

This summer, get a head start and earn college credit at Georgetown. Our college credit courses ease your transition into the college learning environment through a blend of lectures, class discussion...

https://summer.georgetown. edu/programs/SHS04/summer-colle Grades: 9,10,11,12 State: DC

Program date: June 3–July 5,July 8–Aug 9,June 3–July 26(Online),2024 Due date: May 15,2024

Fees: \$2,500

### Northwestern University: Physics Honors

This is a 2 credit equivalent asynchronous Advanced Placement course. Topics include object-oriented program design, the development and selection of algorithms and data structures to solve problem...

https://www.ctd.northwestern.edu/courses

Program date: May 29-Aug 15, 2024 Due date: May 2024 Fees: \$2,660

# Vanderbilt University : Mentor Immersion - A Physics Primer: Breaking Barriers with Quantum Mechanics

Over 34 million individuals are diagnosed with diabetes in the United States alone, resulting in diabetes being one of the leading causes of death in the country and world-wide. Diabetes positively co...

https://pty.vanderbilt.edu/mentor-immersion-summer/

Program date: May 13-Aug 12,June 10-Sept 9, 2024 Due date: May 1,2024 Fees: \$2,750

## Worcester Polytechnic Inst : Online College Credit : General Physics - Electricity & Magnetism

An introduction to the theory of electricity and magnetism. Topics include: Coulomb's law, electric and magnetic fields, capacitance, electrical current and resistance, and electromagnetic induction...

https://www.wpi.edu/academics/pre-collegiate/summer-programs/jumpstart

Grades: 10,11 State: MA Program date: July 8 - August 9, 2024 Due date: Apr 30,2024 Fees: \$2,845

# Worcester Polytechnic Inst : Online College Credit : General Physics - Mechanics

Introductory course in Newtonian mechanics. Topics include kinematics of motion, vectors, Newton's laws friction, work-energy, impulse-momentum, for both translational and rotational motion. Recommen...

https://www.wpi.edu/academics/pre-collegiate/summer-programs/jumpstart

Grades: 10.11 Program date: July 8 - August 9, 2024 Due date: Apr 30,2024

### Stanford - Education Unlimited : Astrophysics

The Astrophysics course will establish a firm introduction of the forces at work upon the fabric of the universe and how these dynamics interplay to create the structure and harmony that we observe to...

sessions/display/camp/astrophysics-9-11
Grades: 11,12 State C4

Program date: July 28-Aug 3,2024 Due date: May 2024 Fees: \$2,995

### UCLA - Education Unlimited : Astrophysics

The Astrophysics course will establish a firm introduction of the forces at work upon the fabric of the universe and how these dynamics interplay to create the structure and harmony that we observe to...

https://www.educationunlimited.com/campsessions/display/camp/astrophysics-9-11 Grades: 11,12 State: CA

Program date: July 7-13,2024

Due date: May 2024 Fees: \$2,995

### Georgetown University - Education Unlimited : Astrophysics

The Astrophysics course will establish a firm introduction of the forces at work upon the fabric of the universe and how these dynamics interplay to create the structure and harmony that we observe to...

https://www.educationunlimited.com/camp-sessions/display/camp/astrophysics-9-11 Grades: 11,12 State: CA

Program date: July 21-27,2024 Due date: May 2024 Fees: \$2,995

### Boston University: Summer High School Honors - The Solar System

The historical development of astronomy and the motion of the planets. The formation of the solar system. The sun and its effects on the earth. Description of the planets and the moons of our solar

https://www.bu.edu/summer/courses/high-school/astronomy/

Grades: 10,11 Program date: July 1-Aug 8,2024 Due date: May 15,2024 Fees: \$3,020

# Boston University : Summer High School Honors -Physics 1/2

Elementary Physics 1 CAS PY 105 The CAS PY 105/106 sequence satisfies premedical requirement CAS PY 105 covers some of the basic principles underlying the physics of everyday life, including

https://www.bu.edu/summer/courses/high-school/physics/

Grades: 10,11 Program date: July 1-Aug 8,2024 Due date: May 15,2024 Fees: \$3,020

## Barnard College : STEMinists - The Elegance of Physics :- Girls Only

Physics is all around you. Gravity holds your feet to the ground, guides the planets in their orbits, and gives the universe its shape. The vibrations we call "light" and "sound" illuminate and beauti...

https://precollege.barnard.edu/steminists

Program date: June 30-July 19,July 22-Aug 10,2024 Due date: Apr 14,2024

### Brown Univ : Summer Pre-College - Computational

This course will provide an overview of Newtonian Mechanics. We will be studying one and two dimensional motion, forces, momentum, energy, rotational motion, periodic motion and light. Starting

https://precollege.brown.edu/programs/summerbrown

Program date: July 14-26,2024 Due date: May 15,2024 Fees: \$3,265

### Brown Univ: Summer Pre-College - Physics: What Does It Take to Discover a Particle?

Our world is composed of seemingly-invisible particles at every scale imaginable. We can look at ourselves and ask, What are we made of? We might answer that we're made of cellsthat have a molecular ...

https://precollege.brown.edu/programs/summerbrown

State: R Program date: June 23-July 26,2024

Due date: May 15,2024 Fees: \$3,265

### Worcester Polytechnic Inst : Residential Frontier - Advanced Modern Physics

The advent of the twenty-first century introduced two extreme worlds of physics: the physics of miniscule particles – electrons – and the physics of supergiants – black holes. Both worlds are extremel...

https://www.wpi.edu/academics/pre-collegiate/summer-programs/frontiers-grades-11-12/program-information

Grades: 10,11 State: MA Program date: July 21 - August 2, 2024

Due date: Apr 30,2024 Fees: \$3,995

# Worcester Polytechnic Inst : Residential Frontier - Physics: Journey into Modern Physics

Time travel, black holes, and how human eyes work - What do these things have in common? Physics! They are all principles of optics and modern physics. Investigate selected fields and applications of ...

https://www.wpi.edu/academics/pre-collegiate/summer-programs/frontiers-grades-11-12/program-information Grades: 10,11 State: MA Program date: July 7 - 19, 2024 Due date: Apr 30,2024 Fees: \$3,995

### Emory University : Summer College - Introduction to Astronomy w/Lab

The Emory Summer College for High School Students is an opportunity to enroll in Emory College undergraduate courses and receive college credit....

http://precollege.emory.edu/

Grades: 10.11 Program date: May 17-June 28,July 1-Aug 9,2024 Due date: June 14,2024 Fees: \$4,164

Rowan University : STEAM Academy - Pathways

This rigorous residential program features a research internship specifically focused on STEAM content that aligns with studentpreferences. Designed to help studentgrow academically and to create a mo...

https://www.rowan.edu/steam/ Program date: July 7-19,2024 Due date: May 2024

