

# 9<sup>th</sup> Grade Science - Honors Application

Do you have an interest in science? Are you ready for a challenge? Can you complete work independently? Do you turn in your assignments on time? Do you work well with others in a lab group? Do you love learning new information in a hands-on way? Are you ready to learn at an accelerated pace? Will you be in geometry or an honors math class next year? If you answered yes to these questions, honors science might be a great fit for you! Please read and complete this application to be considered for an honors course. Please keep in mind that honors courses are a course option but aren't a great fit for every student. Please look at your entire class schedule and decide if an honors science course is the best fit for your current life and academic situation. (Our regular Earth and Space Science course is an excellent option too!!!)

Name: \_\_\_\_\_

School: \_\_\_\_\_ Current Science Teacher: \_\_\_\_\_

What math class are you taking next year?(circle one) *Geometry* *Honors Math 1* *Honors Math 2* *Other?* \_\_\_\_\_

Current Science Grade: \_\_\_\_\_ Current Math Grade: \_\_\_\_\_ Current English Grade: \_\_\_\_\_

Which honors science course are you applying for next year? (circle one)

*Honors Earth and Space Science*

*Honors Biology*

*Physics*

## What are the requirements for honors-level science classes at Capital High School?

- Completed application.
- "B" or better in math, science, and English recommended
- The appropriate math prerequisite (see table below)
- Recommendation of current science teacher

## Which honors science class should I take?

Class Name	Grades in the class	Math co-requirement	Recommendations
Honors Earth and Space Science	Mostly 9 <sup>th</sup>	Geometry, Honors Math 1, or Higher	Recommended for students who are ready for an introductory level high school honors science course. The course is designed to be a freshman-level course where students are guided through expectations and given skills to be successful in honors courses.
Honors Biology	9 <sup>th</sup> and 10 <sup>th</sup>	Geometry, Honors Math 1, or Higher	Recommended for students who are interested in life science and have the skills necessary to enter a 10th grade-level honors course. Students have independent study skills, advocate for themselves, manage their own behavior, and participate effectively in group settings.
Physics	9 <sup>th</sup> -12 <sup>th</sup>	Honors Math 2 or Higher	Recommended for students with an interest in physical science who are ready to tackle the challenge of being in a multi-grade course.

## I want to know more! What topics are taught in each of the honors courses?

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### **4101 Earth and Space Science Science-Honors** **Grades: 9-10** **1.0 Credit**

Honors Earth and Space Science is designed for students who are talented in mathematics and science, and who enjoy and have an interest in pursuing a scientific course of study. This course involves in-depth reading of scientific works, measurement, data analysis, inquiry labs, and the writing of science-based papers. Students are expected to be able to make predictions from their observations, test these predictions, collect data using measurement from tests and draw conclusions from their work. This class has a science literacy and field component.

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### **4201 Biology 1-Honors** **Grades: 9-10** **1.0 Credit**

Honors Biology 1 is a survey course in the Life Sciences designed to challenge the advanced sophomore-level student. This rigorous course requires a high level of commitment and effort from the honors student. It is more in-depth and faster paced than the regular biology course, with a greater emphasis on critical thinking and independent learning. Successful completion of this class will better prepare students for other advanced level courses.

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### **4400 Physics** **Grades: 9-12** **1.0 Credit**

*"Inquiry Physics"* Physics provides an opportunity for students to continue their survey of the fundamental science disciplines offered at the high school level. Physics is a college preparatory introductory level survey course recommended for those students with an interest in science that have demonstrated a high ability in mathematics and previous science classes. Through inquiry activities, laboratory experiences, discussion, movies and lecture students will explore the relationships of waves, sound, light, color, matter, kinematics of motion and energy with an emphasis on increasing student understanding of graphing, diagraming and fundamental problem-solving skills. Topics of study will include waves, sound, light, lenses, mirrors, motion, kinematics, forces, momentum, friction, energy, modern physics theory of the universe, and planetary motion.

## How do I complete this application?

- 1) Complete the information on Page 1 of this application.
- 2) Write a typed, double-spaced essay that answers the following questions. Please keep it less than one page!
  - Describe why you are applying for Honors Earth and Space Science, Honors Biology, or Physics.
  - Describe the skills you possess that will help you be successful in an advanced science course.
  - Discuss how this class will help your educational and/or career goals?
- 3) Have your science teacher initial your registration form.
- 4) Staple your application form to your essay and return to **THE COUNSELORS** on the day registration is due.

Your science teacher will review placement and may suggest registration in a different course.