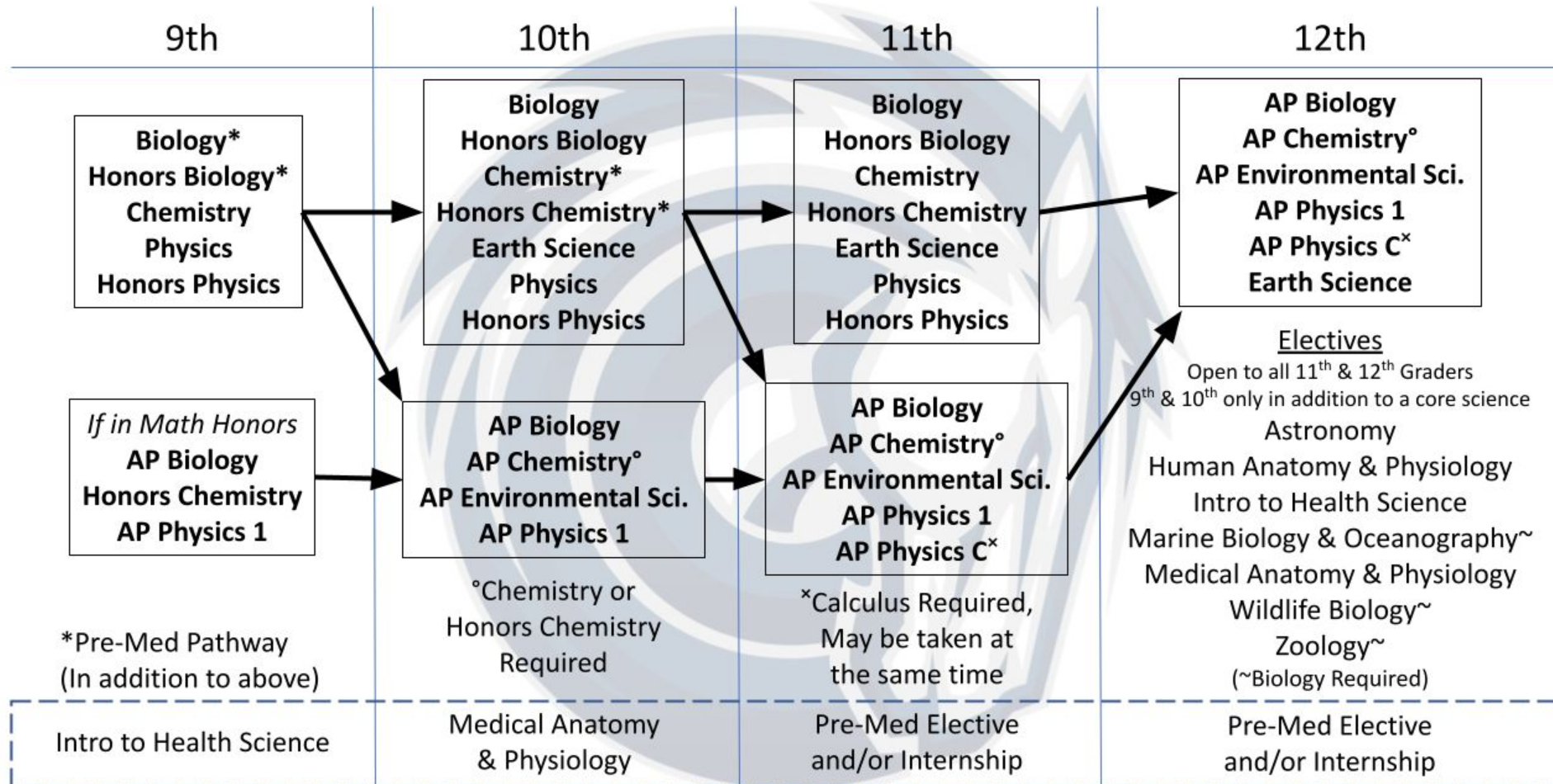


CCHS Science Course Chart



It is recommended that every student take a Biology, Chemistry, and Physics class

Science Courses at CCHS

Core Classes

Reasons why you should take any Science class:

- **Helps develop critical thinking skills**
- **Leads to a higher depth of understanding about the world around you (and how it works)**
- **They are the basis for success in STEM fields**
- **They form a strong basis for college success in any field**

Attributes necessary for success in any science class are:

- **Attending class every day and/or incredibly responsible in making up work**
- **A strong work ethic**
- **A commitment to practicing in order to achieve mastery**
- **Good math skills**

| Area | Course | Who Should Take it? | Why? | Most Important for Success | Biggest Selling Points |
|-----------|------------------|--|---|--|---|
| Chemistry | Chemistry | - Students interested in designing experiments and learning more about the world around them. | - Chemistry leads to a greater understanding of the materials we use in our lives. | - Willing to put in extra time to get help when needed and review notes outside of class | - Many labs and interactive activities |
| | Honors Chemistry | - Students planning on STEM careers - Students who are good with mental math | - Honors chemistry leads to greater success in college chemistry courses (which are required for any STEM major). | - Ability to do mental math - Commitment to practice and review daily | - Labs - Preparation for success in STEM fields |
| | AP Chemistry | - Students who are interested in careers in STEM fields - Students who are good at chemistry but not going into a STEM field - Students who have taken Chemistry or Honors Chemistry | - AP chemistry will lead to greater success in college chemistry courses (which are required for any STEM major). - Non-STEM majors can get credit for college science class and get generals out of the way before college | - Ability to do mental math - Commitment to practice & review daily - Persistence and resilience in order to learn from setbacks | - Preparation for college success in any field - College credits |
| Biology | Biology | - Students who are planning on going to university. - Students who are interested in careers in: Animal sciences, Anatomy, and/or Cellular biology | - Biology will lead to greater success in college Biology courses (which are required for any STEM major). - Foundation course that will introduce students to many important scientific concepts used in high school/college. | - Organizational skills - Note taking - Ability to work individually and in groups | - Leads to the understanding of how living organisms & systems work. - Variety of lab and interactive activities |
| | Honors Biology | - Students who: <ul style="list-style-type: none"> • Are good with visual learning. • Interested in Scientific Processes • Advanced Students | - Honors Biology leads to greater success in college Biology courses (which are required for any STEM major). - Foundation course for Honors Chemistry, AP Biology, MAP, etc. | - Ability to take appropriate notes. - Apply concepts discussed in class to labs/projects. | - Preparation for college success in any field - Variety of Lab activities |

| Area | Course | Who Should Take it? | Why? | Most Important for Success | Biggest Selling Points |
|---------------|--------------------------|---|---|--|--|
| Biology | AP Biology | - Students who: <ul style="list-style-type: none"> Are good at biology but not going into a STEM field Have already taken biology or completed an online summer prep course | - AP biology will lead to greater success in college biology courses (which are required for any STEM major). - Non-STEM majors can get credit for science class generals out of the way before college | - Ability to learn on your own at home - Willing to practice for no credit it leads to mastery | - Preparation for college success in any field - College credits - Variety of Lab activities |
| Physics | Physics | - Students who are interested in STEM careers, especially engineering - Students interested in designing experiments and learning more about the world around them. | - Physics is crucial to understanding the world around us, the world inside us, and the world beyond us. It is the most basic and fundamental science. - Physics develops important problem solving skills. | - Willing to take time to do homework and practice problems | - Hands-on projects/labs |
| | Honors Physics | - Students who are interested in STEM careers, especially engineering - Students interested in designing experiments and learning more about the world around them. | - Honors Physics leads to greater success in college Physics courses (which are required for any STEM major). - Foundation course for AP Physics 1, AP Physics C. | - Willing to take time to do homework and practice problems - Commitment to practice and review daily | - Hands-on projects/labs - Preparation for success in future STEM classes and field. |
| | AP Physics 1 | - Students who are interested in STEM careers, especially engineering - Students who are good at Physics and/or Math but are not going into a STEM career | - AP Physics will lead to greater success in college physics courses (required for any STEM major). - Non-STEM majors can get credit for science class generals out of the way before college | - Comfortable with mental math and trigonometry - Willing to do homework and practice problems | - Preparation for college success in any field - College Credit - Labs |
| | AP Physics C | - Students who are interested in STEM careers, especially engineering - Students who have taken or are taking AP Calculus and are good at Math | - AP Physics will lead to greater success in college physics courses (which are required for any STEM major) | - Comfortable with intense math and trigonometry - Willing to do homework and practice problems | - Preparation for college success in any field - College Credit - Labs - Small Classes |
| Earth Systems | Earth Systems | - Students interested in how the various things around us work together to form a planet that supports life. | - Covers a good portion of material tested on the ACT - Most relevant to non-science majors | - Good attendance and/or responsible in making up work | - Covers real life topics: natural disasters and climate changes |
| | AP Environmental Science | - Students who enjoyed biology or Earth Science and would like to continue to learn about ecosystems, biodiversity, and the health of the Earth. | - We live on the Earth, we should appreciate it and learn to keep our planet beautiful and healthy. - If you want to take an AP science class that allows you to learn at a deeper level without requiring a lot of math | - Willing to come in and ask for help - Good teamwork skills - Think creatively | Going outside Fun labs |

Science Courses at CCHS
Elective Classes

Reasons why you should take any Science class:

- **Helps develop critical thinking skills**
- **Leads to a higher depth of understanding about the world around you (and how it works)**
- **They are the basis for success in STEM fields**
- **They form a strong basis for college success in any field**

Attributes necessary for success in any science class are:

- **Attending class every day and/or incredibly responsible in making up work**
- **A strong work ethic**
- **A commitment to practicing in order to achieve mastery**
- **Good math skills**

| Course | Who Should Take it? | Why? | Most Important for Success | Biggest Selling Points |
|--------------------------------------|--|---|---|--|
| Astronomy | - Students interested in outer space, constellations, planets, stars, and galaxies | - Provides an understanding of the universe that we live in | - Desire to learn - Self motivated - Note Taking | - Space is Amazing! - Stars, Black Holes - Learning about an active field of study! |
| Human Anatomy and Physiology | - Students who are interested in careers in medicine and/or science - Students who: <ul style="list-style-type: none"> ● Good with visual learning & memorizing. ● Highly Motivated | - Provides an introduction to skeletal, muscle, cardiovascular, and nervous system anatomy and physiology | -Willing to review classwork for short periods of time on a daily basis | - 5-week rabbit dissection - Heart and brain dissections |
| Introduction to Health Science (IHS) | - Students who are interested in medicine, science, and/or other health science classes in high school - Students who: <ul style="list-style-type: none"> ● Good with visual learning & memorizing. Generally, Freshman & Sophomore Students | - IHS is an important part of the preparation for any medical career. - IHS will lead to greater success in High School/college biology/anatomy/physiology courses (which are required for any STEM major). - Leads to an understanding of Medical Terminology. | - Ability to keep pace in a fast paced and rigorous course. | - Labs - Dissections - Preparation for Medical Careers |
| Marine Biology | - Students who love the ocean, aquatic life and are interested in careers in Marine Biology, Oceanography and/or Aquarium Technology - Students who have already taken a biology course | - Provides an understanding of how the ocean and the life it contains affects the world as a whole -Currently, jobs in marine science are in high demand | - Note Taking - Group work - Memorization - Must like animals | - The ocean is amazing! - Aquarium Field Trip - Learning about an active field of study! -interact with live aquatic animals in class |

| Course | Who Should Take it? | Why? | Most Important for Success | Biggest Selling Points |
|--------------------------------------|--|---|---|--|
| Medical Anatomy and Physiology (MAP) | <ul style="list-style-type: none"> - Students who are interested in a career in the medical field and/or science - Students who: <ul style="list-style-type: none"> • Good with visual learning & memorizing • Highly Motivated | <ul style="list-style-type: none"> - MAP is an important part of the preparation for any medical career. - MAP will lead to greater success in college biology/anatomy/physiology courses (which are required for any STEM major). - Leads to an understanding of Medical Terminology. | <ul style="list-style-type: none"> - Ability to keep pace in a fast paced and rigorous course. | <ul style="list-style-type: none"> - Labs - Dissections - Preparation for Medical Careers |
| Wildlife Biology | <ul style="list-style-type: none"> - Students who are interested in a career in wildlife, wildlife management, and/or science - Students who have taken a biology course | <ul style="list-style-type: none"> - Provides information about wildlife in different areas and the adaptations they need to survive. - Important information about careers in wildlife - Leads to greater success in college science courses | <ul style="list-style-type: none"> - Note Taking - Group work -Like animals -Turning in assignments | <ul style="list-style-type: none"> - Labs - Projects - Guest Speakers |
| Zoology | <ul style="list-style-type: none"> - Students who love animals and/or are interested in a career in veterinary medicine, zoology, animal husbandry, animal care, paleontology -Students who have passed taken a Biology course | <ul style="list-style-type: none"> - Provides an understanding about the animals that we share this world with. - Provides evolutionary physical relationships between groups of animals | <ul style="list-style-type: none"> - Liking animals and wants to learn more about them - Note taking, listening, turning in assignments | <ul style="list-style-type: none"> - Get to know the animals we share the planet with! - Compare the human body to other animals - Live animal interactions and field trips to the aquarium, aviary, and zoo! |