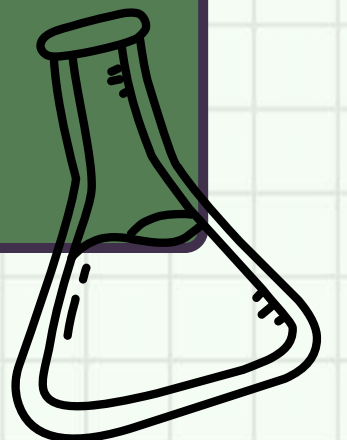
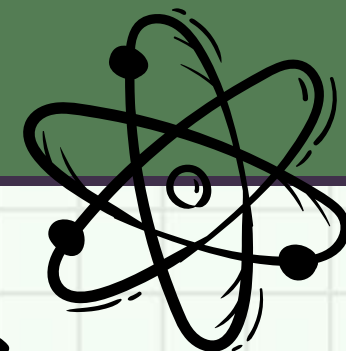
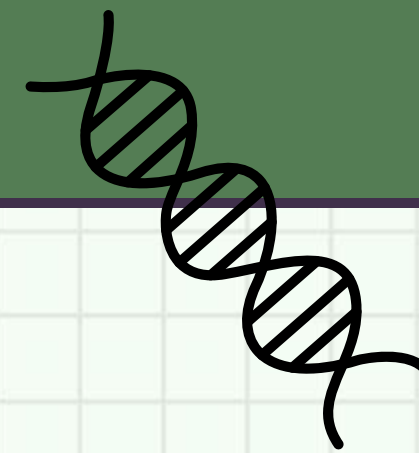
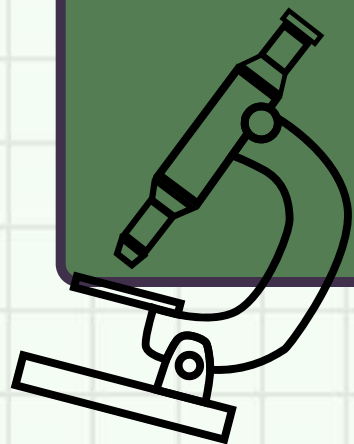


JANUARY 22, 2025

LIVINGSTON HIGH SCHOOL SCIENCE PATHWAYS NIGHT



Before we begin...a few words of thanks!

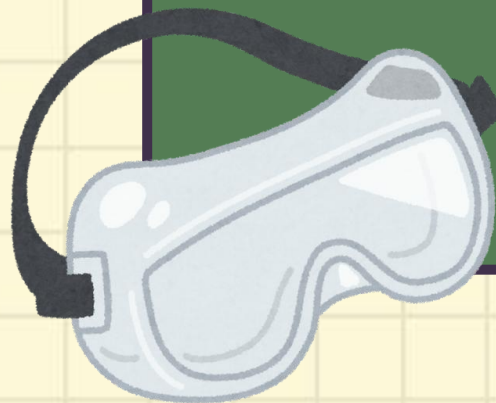
Thank you to:

- You for joining us here tonight
- Our Board of Education and Central Office Administration
- Our LHS Administration
- Our Science Teachers and their outstanding students



SAFETY FIRST!

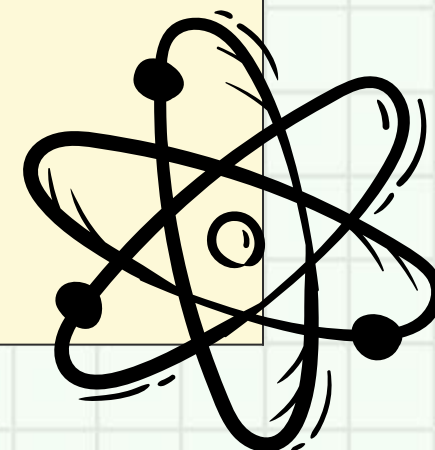
- ***Locations of Exits***
- ***Location of AED***



FORMAT

FOR SCIENCE PATHWAYS NIGHT

Time	Description
6:30–6:50 pm	Science Pathways Overview
7–7:30 pm	<u>Session 1</u> <i>Science Teachers and Students available to discuss their individual pathways:</i> <ul style="list-style-type: none">• Biotechnology – S11• Health Science – S14• Science Research – S26• Environmental Sustainability – S27
7:30–8 pm	<u>Session 2</u> <i>Science Teachers and Students available to discuss their individual pathways:</i> <ul style="list-style-type: none">• Biotechnology – S11• Health Science – S14• Science Research – S26• Environmental Sustainability – S27

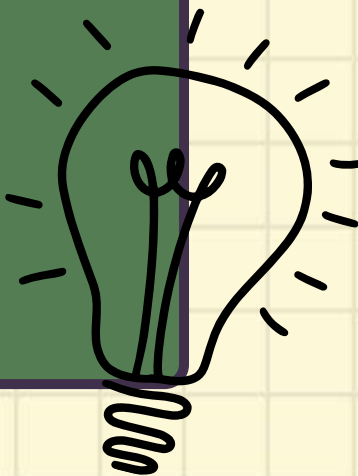


GRADUATION REQUIREMENT

All students must complete Biology plus two additional lab science classes.

At LHS, this means students must take Biology as freshmen and then two of the following courses:

- Chemistry (CP/Honors)
- Physics (CP/AP Physics 1)
- Environmental Science (CP/Honors/AP)
- Natural Resources and Ecology (NRE)
- Introduction to Chemistry and Physics (cannot double count with Chemistry or Physics)



COURSE SEQUENCE

9TH GRADE

10TH GRADE

11TH GRADE

12TH GRADE

General Biology
Biology CP
Honors Biology

General Enviro
Enviro CP
Enviro Honors
Natural Resources and
Ecology (NRE)
AP Enviro

General Physical Science
Chemistry CP
Chemistry Honors

Physics CP
AP Physics 1

Intro to Chemistry/Physics

Physics CP
AP Physics 1

General Physical Science
Chemistry CP
Chemistry Honors

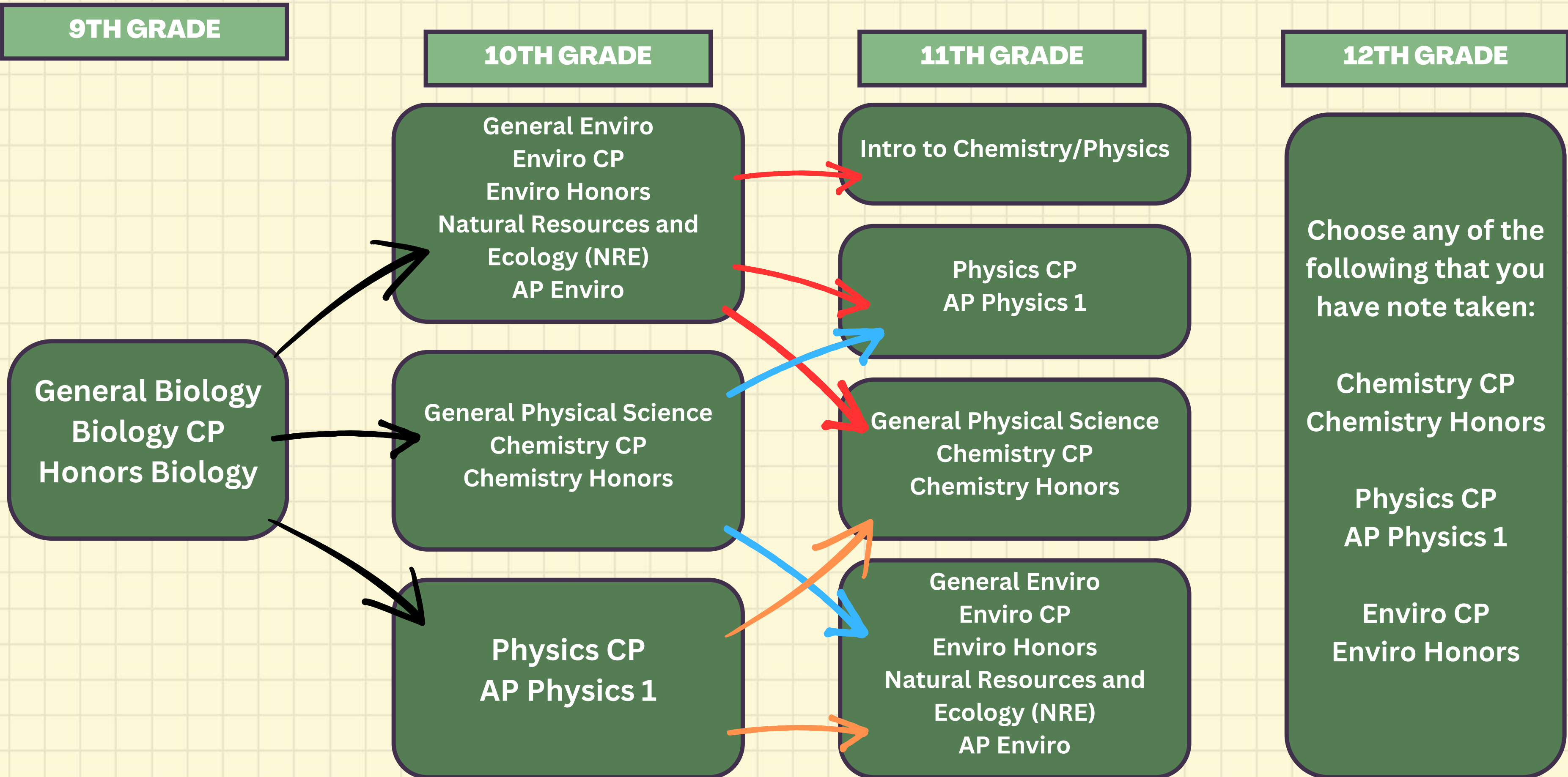
General Enviro
Enviro CP
Enviro Honors
Natural Resources and
Ecology (NRE)
AP Enviro

Choose any of the
following that you
have not taken:

Chemistry CP
Chemistry Honors

Physics CP
AP Physics 1

Enviro CP
Enviro Honors



ELECTIVES

9TH GRADE

10TH GRADE

11TH GRADE

12TH GRADE

Note:
*Please consult
prerequisites in
course guide*

Full Year:

Forensic Science

The Human Body

Dynamics of Health Care

NRE

Semester:

Astronomy

Natural Disasters

Organic Chemistry

AP Biology

AP Environmental Science

Biotechnology 1
AP Chemistry
AP Physics 2

Sustainability Science
AP Physics C: Mechanics
AP Physics C: E & M

**Three-Year
Research Elective**

**Introduction to
Research Methods
Honors**

**Intermediate
Research Methods
Honors**

**Advanced
Research Methods
(AP)**

SCIENCE PATHWAYS

- **Six (6) course sequence**
 - **Core courses (graduation requirements) taken in first three years plus three additional courses**
- **First-year pathway courses can be taken as electives outside of the pathways**
- **Students do not need to declare for a particular pathway until Senior year.**

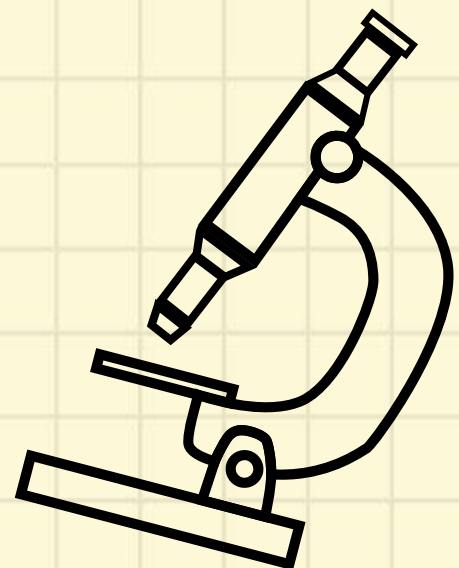
Science Research Program

**Application required
(due January 27, 2025 at
8:00 am)**



Career Pathways

**Biotechnology
Health Sciences
Environmental
Sustainability**



SCIENCE RESEARCH PROGRAM

9TH GRADE

Biology
CP/Honors

10TH GRADE

Introduction to
Research Methods
Honors

11TH GRADE

Intermediate
Research Methods
Honors

12TH GRADE

Advanced
Research Methods
(AP)

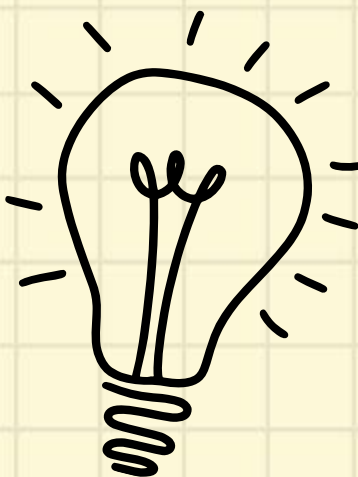
*Any time between 10th
and 11th Grades*

Choose 2:

Chemistry CP/Honors

Physics CP/AP1

Environmental Science CP/Honors/AP or NRE



BIOTECHNOLOGY PATHWAY

9TH GRADE

Biology
CP/Honors

10TH GRADE

Chemistry
CP/Honors

11TH GRADE

Biotechnology 1

12TH GRADE

Biotechnology 2

*Any time between 10th
and 11th Grades*

*Any time between 10th
and 12th Grades*

Choose One:

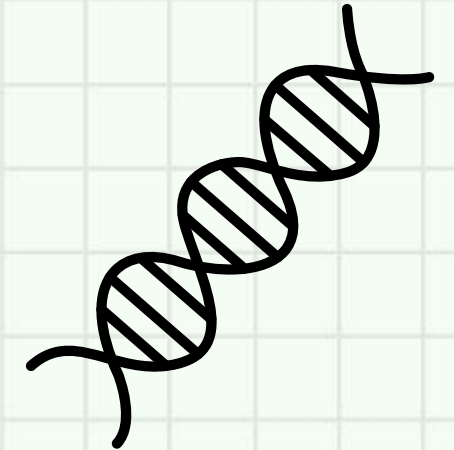
Physics CP/AP1

Environmental CP/H/AP or NRE

Choose One:

AP Biology

Forensic Science



HEALTH SCIENCE

9TH GRADE

Biology
CP/Honors

10TH GRADE

Chemistry
CP/Honors

Dynamics of
Health Care in
Society – RSHP
(3 Rutgers Credits)

11TH GRADE

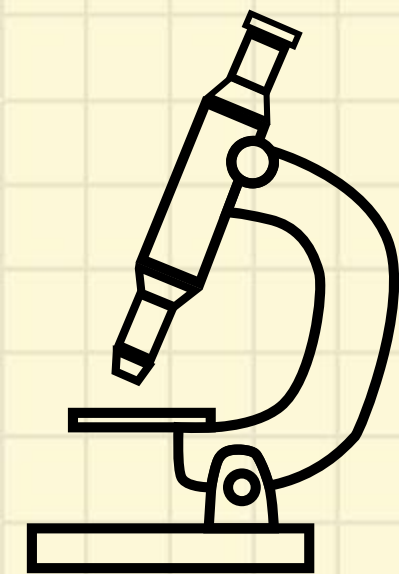
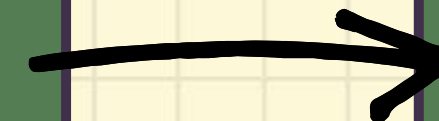
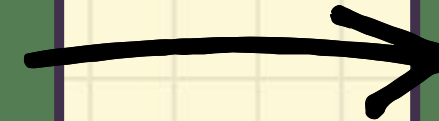
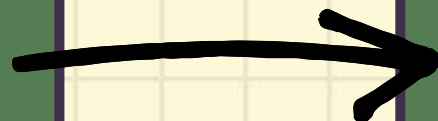
Anatomy &
Physiology 1 –
RSHP
(4 Rutgers credits)

Choose One:
Physics CP/AP1
Environmental
CP/H/AP
NRE

12TH GRADE

Anatomy &
Physiology 2 –
RSHP
(4 Rutgers credits)

Optional:
Medical
Terminology –
RSHP
(3 Rutgers credits)



ENVIRONMENTAL SUSTAINABILITY PATHWAY

9TH GRADE

Biology
CP/Honors

10TH GRADE

Natural Resources and Ecology (NRE) -
credit upon examination option

11TH GRADE

Sustainability Science

12TH GRADE

*Any time between 10th
and 11th Grades*

Choose One:
Chemistry CP/Honors
Physics CP/AP1



*Any time between 10th
and 12th Grades*

Choose One:
AP Biology AP Environmental Science Biotechnology 1
Technology & Design Astronomy (S) & Natural Disasters (S)

ELECTIVES

9TH GRADE

10TH GRADE

11TH GRADE

12TH GRADE

Note:
*Please consult
prerequisites in
course guide*

Full Year: Forensic Science The Human Body **Dynamics of Health Care** **NRE**

Semester: Astronomy Natural Disasters Organic Chemistry

AP Biology AP Environmental
Science

Biotechnology 1

AP Chemistry

AP Physics 2

Sustainability Science

AP Physics C: Mechanics

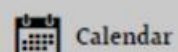
AP Physics C: E & M

**Three-Year
Research Elective**

**Introduction to
Research Methods
Honors**

**AP Seminar -
STEM**

**AP Research-
STEM**



Calendar



School Lunch



Transportation



Genesis Parent



Schoology Parent



Class Link

ACADEMIC DEPARTMENTS

Department Supervisors >

Business Education +

English +

Health/Physical Education +

Family & Consumer Science +

Mathematics +

Performing Arts +

Science v

> Science Overview

> About the Curriculum

> AP Course Descriptions

> Course Guide-Courses/Sequences

> Science National Honors Society Information

> AP Science Applications

> Science Research Program Application

> Science Pathways Information

> Resources

> Summer Science Opportunities

[Home](#) » [Departments](#) » [Academic Departments](#) » [Science](#) » [Science Overview](#)

AP Science and Science Research Applications can be found using the link on the left toolbar.

SNHS Tutorial Request Form

WELCOME TO THE LHS SCIENCE DEPARTMENT!

Welcome to the Livingston High School Science Department. As a department, it is our mission to help all students become scientifically literate. As technology evolves, it grows increasingly more important that our students understand the latest advances and are able to make good, sound decisions as future voters. A sound grounding in science strengthens many of the skills that people use every day, like solving problems creatively, thinking critically, working cooperatively in teams, using technology effectively, and valuing life-long learning.

Students learn best when there is collaboration and communication between the student, parents, teachers, counselors and administrators. Please encourage your child to communicate with the classroom teacher and visit the teacher during extra-help periods after school if necessary. If a concern arises, the first step is to contact the classroom teacher directly to see if the issue can be resolved. If additional suggestions are needed, please then feel free to contact me.

The Science Department at Livingston High School offers unique courses such as forensic science, physiology, organic and bio/nuclear chemistry as well as a full selection of five second-year Advanced Placement courses. For those interested in research, our three-year Science Research Program affords our students the opportunity to find a mentor at a college or university and conduct authentic research while still in high school. Please visit your child's respective course guide for more information on course offerings and prerequisites. We are also rich in extra-curricular opportunities such as Science Olympiad, Science League, the Environmental Club, and the Science National Honor Society.

We hope your child enjoys their science experience here at Livingston High School. Please contact me if you have any further questions.

Brian Carey

7-12 Science Supervisor

bcarey@livingston.org

973-535-8000 x7365

Please review your individual teacher's web page for specific information on the course you are taking.

Parents, please see the toolbar on the left for important information regarding your child's science experience here at LHS including additional science opportunities for those interested.

FORMAT

FOR SCIENCE PATHWAYS NIGHT

LHS Science Pathway teachers and students will be available to discuss each pathway in more detail. Please feel free to visit more than one room!

Session 1: 7–7:30 pm

Session 2: 7:30–8 pm

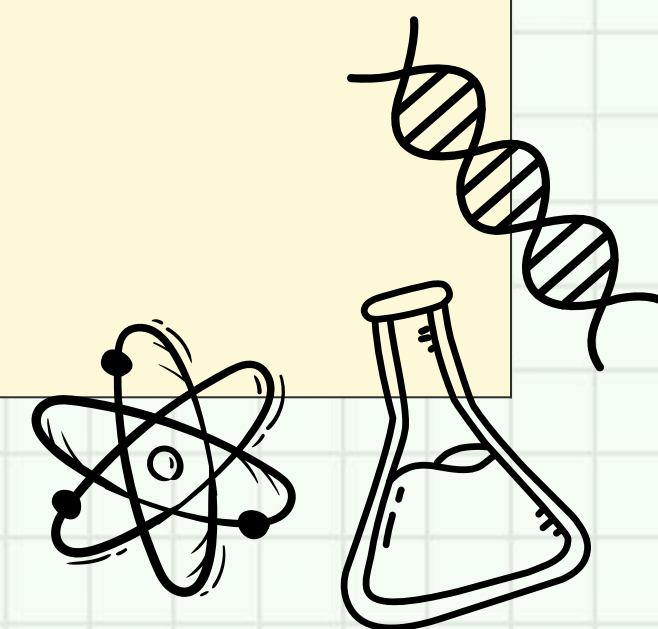
Rooms

Biotechnology – S11

Health Science – S14

Science Research – S26

Environmental Sustainability – S27



THANK YOU!

Any questions please contact:

Brian Carey

7-12 Science Supervisor

bcarey@livingston.org

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