

Livingston High School
Science Pathways Night
January 24, 2023

Format for Science Pathways Night

6:30 – 6:45 pm Science Pathway Overview

6:45 - 7:45 pm Science Teachers and Students available to discuss

their individual pathways:

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

9th Grade10th Grade11th Grade12th 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

General Physical
Science
Chemistry CP
Chemistry Honors

Intro to
Chemistry/Physics

Physics CP
AP Physics 1

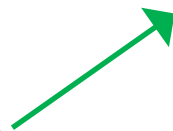
General Enviro
Enviro CP
Enviro Honors
Natural Resources
and Ecology (NRE)
AP Enviro

Choose any of the
following that you
have not taken:

Chemistry CP
Chemistry Honors

Physics CP
AP Physics 1

Enviro CP
Enviro Honors



E
L
E
C
T
I
V
E
S

9th Grade

10th Grade

11th Grade

12th Grade

FY: Forensic Science The Human Body Dynamics of Health Care in Society
Sem: Astronomy Medical Microbes Natural Disasters Organic Chemistry

Note:
Please consult
prerequisites in
course guide:

AP Biology

AP Environmental Science

Biotechnology 1 Sustainability Science
AP Chemistry AP Physics C: Mechanics
AP Physics 2 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
- Science Research Program
 - Application required (due February 1, 2023)
- Career Pathways in:
 - Biotechnology
 - Health Sciences
 - Environmental Sustainability
- 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

9th Grade

Biology CP/Honors

Any time between
10th and 11th
Grades

10th Grade

Introduction to
Research Methods
Honors

Choose Two
Chemistry CP/Honors
Physics CP/AP1
Environmental Science CP/Honors/AP

11th Grade

Intermediate Research
Methods Honors

12th Grade

Advanced Research
Methods (AP)

Biotechnology Pathway

9th Grade

Biology CP/Honors

Any time between
10th and 11th
Grades

Any time between
10th and 12th
Grades

10th Grade

Chemistry CP/Honors

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

Choose One
AP Biology
Forensic Science

11th Grade

Biotechnology 1

12th Grade

Biotechnology 2

Health Sciences

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

12th Grade

Anatomy & Physiology
2 – RSHP
(4 Rutgers credits)

Optional:
Medical Terminology –
RSHP
(3 Rutgers credits)

RSHP – Rutgers School of Health Professions
(Dual Credit Option Available)

Environmental Sustainability Pathway

9th Grade

Biology CP/Honors

Any time between
10th and 11th
Grades

Any time between
10th and 12th
Grades

10th Grade

Natural Resources and Ecology (NRE) -
dual credit option

Choose One
Chemistry CP/Honors or Physics CP/AP1

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

11th Grade

Sustainability Science

12th Grade

E
L
E
C
T
I
V
E
S

9th Grade

10th Grade

11th Grade

12th Grade

FY: Forensic Science / The Human Body / **NRE** / **Dynamics of Health Care in Society**

Sem: Astronomy Medical Microbes Natural Disasters Organic Chemistry

Note:
Please consult
prerequisites in
course guide:

AP Biology

AP Environmental Science

Biotechnology 1

AP Chemistry

AP Physics 2

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

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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.

From 6:45 - 7:45 pm, 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!

Biotechnology - S11

Health Science - S14

Science Research - S26

Environmental Sustainability - S27

Any questions, please contact:

Brian Carey, 7-12 Science Supervisor

bcarey@livingston.org

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