

# SCIENCE PATHWAY

A total of three science credits must be earned to meet graduation requirements. Three years of science is the minimum requirement, but four years is strongly recommended for college-bound students. Many students elect to take two science offerings in their junior and/or senior year. This is highly recommended for students wishing to pursue a career in a science related field.

## Requirements (min. of 3 credits):

- 1.0 credit: Biology (or Honors)
- 0.5 credit: Chemistry I (or Honors)
- 0.5 credit: Physics I (or Honors)
- 0.5 credit: Earth Science I (or Honors)
- 0.5 credit: Level II Course - Earth II/Chemistry II /Physics II

## \* Alternative options for 3<sup>rd</sup> credit (Completes Earth Science Standards):

- 1.0 credit: AP Environmental Science
- 1.5 credits: Honors Earth Science I AND AP Bio/AP Chemistry/AP Physics

## Key for Course Names:

Lowercase = Semester course (0.5 credit)

UPPERCASE = FULL YEAR COURSE (1.0 CREDIT)

## Science Pathway Recommendations

|   | 9 <sup>th</sup> Grade           | 10 <sup>th</sup> Grade  | 11 <sup>th</sup> Grade  | 12 <sup>th</sup> Grade  |
|---|---------------------------------|---|---|---|
| <b>Pathway 1</b><br>Meets basic graduation requirements (3 credits)   | BIOLOGY                         | Chemistry I<br>AND<br>Physics I   | Earth I<br>AND<br>Earth II  | <b>Optional: Take <u>ONE</u> of the following:</b><br>Physics II, Chemistry II,<br>*FORENSIC SCIENCE, HUMAN BIOLOGY   |
| <b>Pathway 2</b><br>College-bound<br><br><i>Four years recommended</i>  | BIOLOGY                         | Chemistry I<br>AND<br>Physics I   | Earth I<br>AND<br>Chemistry II or Physics II or Earth II<br>or *AP BIOLOGY or *AP PHYSICS I | <b><u>ONE or more</u> of the following:</b><br>*AP BIOLOGY, *AP CHEMISTRY, *AP PHYSICS (1 or C),<br>*AP ENVIRONMENTAL, *FORENSIC SCIENCE,<br>HUMAN BIOLOGY,<br>Physics II, Chemistry II, Earth II |
| <b>Pathway 3</b><br>Strong desire to pursue a science/engineering/medical major in college<br><br><i>Future engineering majors should take AP Physics C</i> | BIOLOGY<br>or<br>HONORS BIOLOGY | Honors Chemistry I<br>AND<br>Honors Physics I                             | Honors Earth I<br>AND<br>*AP BIOLOGY or *AP CHEMISTRY<br>or *AP PHYSICS (1 or C)            | <b><u>ONE or more</u> of the following:</b><br>*AP BIOLOGY, *AP CHEMISTRY, *AP PHYSICS (1 or C),<br>*AP ENVIRONMENTAL, *FORENSIC SCIENCE,<br>HUMAN BIOLOGY,<br>Physics II, Chemistry II, Earth II |
| <b>Pathway 4</b><br>Non-science college majors interested in earning AP science credits   | BIOLOGY<br>or<br>HONORS BIOLOGY | Chemistry I or Honors Chemistry I<br>AND<br>Physics I or Honors Physics I | *AP ENVIRONMENTAL SCIENCE (Completes Earth I & II requirements)                             | <b><u>ONE or more</u> of the following:</b><br>*AP BIOLOGY, *AP CHEMISTRY, *AP PHYSICS (1 or C),<br>*FORENSIC SCIENCE, HUMAN BIOLOGY,<br>Physics II, Chemistry II                                 |

**Note:** Students may take electives beyond requirements (if there is room in their schedules) in grades 10 to 12.

\*Can be taken as a senior math credit.