



## Science Course Requirements

### Requirements to Graduate:

- Physical Lab Science : 1 credit
- Life Lab Science: 1 credit
- Science elective(s): 1 credit
- Health: .5 credit

### Physical Lab Sciences:

- **Journey Through Physical Science (Chem. & Phy.)** -Taken Freshman year. (1 Cr.)  
Prerequisite:  
**A** - Successful completion of a science program on the 8th grade level with superior grades, or permission from the Department Head. The student should be concurrently enrolled in Algebra A  
  
**B** –Successful completion of a science program on the 8<sup>th</sup> grade level.  
  
**Explorations** – Permission required from the Department Head.

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- **Applied Chemistry** -This is usually taken Junior year. (1 Cr.)  
Prerequisite:  
1 credit in Exploration JTPS or JTPS B, and 1 credit in Biology B or C
- **AP Chemistry** -This is usually taken Senior year. (1 Cr.)  
Prerequisite:  
1 credit in Chemistry A or Honors Chemistry and the recommendation of the current teacher or permission from the Department Head.
- **Chemistry** -This is usually taken Junior year. (1 Cr.)  
Prerequisite:  
**A** – Cumulative science GPA of 80 or better (including Biology A) and either completion of or concurrent enrollment in Algebra 2A, or permission from the Department Head. For students who will not be concurrently enrolled in Algebra 2A, permission will be dependent upon passing a math placement test which will be administered during the course selection process.  
  
**B** – Successful completion of 1 credit in Physical Science, 0.5 credit in Biology, and 1 credit in Algebra 1.

- **Honors Chemistry** -This is usually taken Junior year. (1.5 Cr.)  
Prerequisite:  
A cumulative science GPA of 88 or better (including Biology A) and Biology teacher recommendation OR Honors Biology with an average of 85 or better. In addition, students must either have completed or be concurrently enrolled in Honors Algebra 2 or Algebra 2A.

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- **Applied Physics** -This is usually taken Senior year. (1 Cr.)  
Prerequisite:  
1 credit in JTPS, 0.5 credit of Biology, and 1 credit in Algebra 1
- **AP Physics 1 or 2** -This is usually taken Senior year. (1 Cr.)  
Prerequisite:  
1 credit in Chemistry (A or Honors) or Algebra 2 (A or Honors) and recommendation of current teacher or permission from the Department Head.
- **AP Physics C:Mechanics** -This is usually taken Senior year. (1 Cr.)  
Prerequisite:  
1 credit in Chemistry (A or Honors) and completion or concurrent enrollment in Calculus. A previous course in physics is recommended but not required.
- **Physics** -This is usually taken Senior year. (1 Cr.)  
Prerequisite:  
A - 1 credit in Chemistry (A or Honors) or Algebra 2 (A or Honors).  
B - Successful completion of or concurrent enrollment in Algebra 2B, or permission from the Department Head.
- **Astronomy** -This can be taken Junior or Senior years. (.5 Cr.)  
Prerequisite:  
0.5 credit in Biology.
- **Meteorology** -This can be taken Junior or Senior years. (.5 Cr.)  
Prerequisite:  
0.5 credit in Biology.

### Life Lab Sciences:

- **Biology** -This is usually taken Sophomore year. (1 Cr.)  
Prerequisite:  
A – 1 credit in JTPS A with a grade of 85 or better, or with teacher recommendation and permission from the Department Head.  
B – 1 semester (0.5 credit) in JTPS B with a grade of 70 or better, or permission from the Department Head.  
C – 1 semester (0.5 credit) in JTPS or permission from the Department Head.
- **Honors Biology** - Sophomore year (1.5 cr)

Prerequisite:

JTPS A1 and A2 with a combined average of 88 or better, and JTPS A teacher recommendation.

- **AP Biology** -This is usually taken Junior or Senior year. (1.5 Cr.)

Prerequisite:

1 credit in Chemistry A or Honors Chemistry and the recommendation of the current teacher or permission from the Department Head.

- **Anatomy & Physiology** -This is usually taken Junior or Senior year. (.5 Cr.)

Prerequisite:

Biology A1 and A2 with a combined average of 70 or better, or Biology B1 and B2 with a combined average of 80 or better, or permission from the Department Head.

- **Applied Astrobiology** -This is usually taken Junior or Senior year. (1 Cr.)

Prerequisite:

1 credit in Exploration JTPS or JTPS B, and 1 credit in Biology B or C.

- **Botany** -This is usually taken Junior or Senior year. (.5 Cr.)

Prerequisite:

1 credit in Biology.

- **Field Biology** -This is usually taken Junior or Senior year. (.5 Cr.)

Prerequisite:

1 credit in Biology.

- **Forensic Science**- This is usually taken Junior or Senior year. (.5 Cr.)

Prerequisite:

1 credit Biology and 1 credit Geometry OR Algebra 2.

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- **Health (A,B levels)** - This is usually taken Sophomore year. (.5 Cr.)

A: 1 credit in JTPS A, Bio A, or Honors Bio

B: 0.5 credit in JTPS