

Engineering Pathway

Students completing the Engineering Pathway will graduate from AHS with up to 46 dual credits (in partnership with the University of Connecticut Early College Experience Program, the University of New Haven through Project Lead the Way, and Housatonic Community College).

Freshman Year

1. English I
2. Algebra or Geometry
3. Global History I and II
4. General Science/Honors Biology
5. World Language
6. Seminar
7. Health/PE
8. Computer Applications/Art or Music

Sophomore Year

1. English II or English II Honors
2. Geometry or Algebra II
3. Civics/Sociology
4. Biology/ ECE-AP Biology*** (ECE College Credit)
5. Health/PE
6. World Language II
7. Intro to Engineering (PLTW, UNH College Credit)
8. Biology Lab or Art/Music or Intro to Computer Science

Junior Year

1. English III or English III Honors or AP Language and Composition
2. Algebra II/Pre-Calculus
3. US History/ECE-AP US History* (ECE College Credit)
4. Chemistry/ECE-AP Chemistry*** (ECE College Credit) or Science Elective
5. Principles of Engineering (PLTW, UNH College Credit)
6. Blueprint Reading (HCC College Credit) or World Language III
7. Personal Finance I/Health II
8. Chemistry Lab

Senior Year

1. Honors College Writing /ECE-AP Literature and Composition or English Reading Elective and Senior Composition
2. Pre-Calculus/Calculus or ECE Statistics* (ECE College Credit)
3. Aerospace Engineering (PLTW College Credit) or Digital Electronics (PLTW, UNH College Credit)
4. Advanced Computer Concepts (HCC College Credit)
5. Intro to Computer Science or AP Computer Science or World Language IV
6. Technology Education I or Blueprint Reading^ (HCC College Credit)
7. ECE Physics*** (ECE College Credit)
8. Physics Lab

^ 2 Credit Class

*4 Credit Class

**6 Credit Class

***8 Credit Class

Competitive Internship Opportunity with Sikorsky/Lockheed Martin PLTW Internship Program or Teamsters Internship Program

PLTW College/University partners can be found here:

<https://www.pltw.org/our-partners/college-and-university-partners>