

Paint Branch High School

Academy of Science and Media

Common Experience Courses

Grade 9

- 1 English 9 [T][F]
- 1 Mathematics [T][F]
- 1 Matter & Energy or Biology or Physics [T][F][S]
- 1 United States History [T][M] or Honors U.S. History (GL Program)[M]
- 1 Foreign Language [T][M]*
- 1 Fine Art [T][M]# or Technology [T][M]#
- 1 Physical Education [T][S]

Grade 10

- 1 English 10 [T][F]
- 1 Mathematics [T][F]
- 1 Biology or Science [T][F][S]
- 1 NSL Government [T][M]
- 1 Foreign Language [T][M]*
- 1 Fine Art [T][M]# or Technology [T][M]#
- 1/2 Health [T][S]^
- 1/2 elective or signature course

Grade 11

- 1 English 11 [T][F]
- 1 Mathematics [T][F]
- 1 Science [T][F][S]
- 1 Modern World History [T][M]
- 1 elective or signature course
- 1 elective or signature course
- 1 elective or signature course

Grade 12

- 1 English 12 (Pacesetter)[T][F]
- 1 Mathematics [T][F]
- 1 elective or signature course
- 1 elective or signature course
- 1 elective or signature course
- 1 elective or signature course

- [T] Indicates course(s) where students receive specific instruction in technology
- [M] Indicates course(s) where students receive specific instruction in media
- [S] Indicates course(s) where students receive specific instruction in science
- [T][F][S] Indicates course(s) integrating skills related to signature themes of science and media (technology, investigation, information, interpersonal)
- * Fulfills requirement to earn either (a) 2 credits in Foreign Language or (b) 2 credits in Advanced Technology Education or to successfully complete a state approved Career Development Program.
- # Fulfills requirement to earn one credit in Fine Art and one credit in Technology.
- ^ Fulfills requirement to earn health credit, also offered outside school day to provide room in the schedule for a two-semester course.

Signature Courses in Science and Media

Life Science/Medical Focus

- AP Biology
- AP Psychology
- AP Environmental Science
- Anatomy & Physiology for Health Prof. – Pharm.
- Human Anatomy & Physiology
- Biotechnology
- Honors Biology – Double Period
- Honors Biology
- Honors Health Education
- Foun. of Medicine and Health Sci. - Pharmacy
- Medical Careers Science
- Medical Careers Internship
- Medical Terminology & Careers ¹
(taught in conjunction with Montgomery College)
- Environmental Science
- Forensic Science
- Horticultural Science
- Family Life & Human Development
- Health Education
- Science Research Senior Seminar
- Science Internship

Physical Science Focus

- AP Physics
- AP Chemistry
- Engineering Science
- Honors Physics 9
- Honors Astronomy
- Pre-Engineering
- Chemistry
- Honors Chemistry – Double Period
- Honors Chemistry
- Physics
- Honors Matter & Energy
- Matter & Energy
- Astronomy

Media Focus

- Advanced Television Production
- Television Production
- Digital Art
- Journalism – Editing/News Production
- Journalism – Advanced Techniques
- Photography
- Yearbook
- Literary Magazine – Advanced Composition
- Radio History & Technology
- Stage Design
- Advanced Acting
- Play Directing
- US History: Guided/Independent Research †
- Gilder Lehrman American History Internship †

Technology Focus

- AP Computer Science 2/3
- Advanced Software Applications by Design
- Software Applications by Design by Design
- Discovering Programming Concepts
- Business Technology & Computer Programming
- Technological Innovations
- Principles of Engineering ²
- Principles of Engineering ²
- Pre-Engineering
- Communication Systems Technology ²
- Civil Engineering and Architecture ²
- Engineering Design and Development
- Digital Electronics ²
- Website Development

¹ Offered are part of the Medical Careers Program; in partnership with Montgomery College for possible Montgomery College credit upon successful completion of the course and passing a Montgomery College course test.

² Offered as part of the Academy of Engineering Technology; A National Academy Program

† These courses are offered as part of the Gilder Lehrman American History Scholars program