

Course Description and Related Academic Standards

“Introduction to Human Space Exploration” is designed to provide an interdisciplinary experience for high school students. Students will learn the technical, scientific, historical, and inter-personal aspects of human space exploration and their applications to our daily lives. The course is constructed around the Academic Standards for Science and Technology, Writing and Reading in Science and Technology and mathematical problem-solving. It consists of readings (fiction and nonfiction), writing experiences, hands-on interactive experiments, and projects and simulations in individual and group settings. The following PA Academic Standards are integrated in this course:

Academic Standards for Science and Technology

- 3.1. Unifying Themes:
A., B., C., D., E
- 3.2. Inquiry and Design:
C., D.
- 3.3. Biological Sciences:
B., D.
- 3.4. Physical Science, Chemistry and Physics:
A., B., C., D
- 3.5. Earth Sciences:
C., D.
- 3.6. Technology Education:
A., B., C.
- 3.7. Technological Devices:
A., B., C., D., E.
- 3.8. Science, Technology and Human Endeavors:
A., B., C.

Academic Standards for Reading in Science and Technology

- 3.5. Reading Informational Text:
CC.3.5.9-10.A., B., C., D., E., F., G., H., I.

Academic Standards for Writing in Science and Technology

- 3.6. Writing:

CC.3.6.9-10.A., B., C., D., E., F., G., H. I.

Academic Standards for High School Mathematics

2.1. Numbers and Operations:

CC.2.1.HS.F.1-5

2.2. Algebraic Concepts:

CC.2.2.HS.C.1,3,5, CC.2.2.HS.D.1-10

2.3. Geometry:

CC.2.3.HS.A.3,7,8,9,14

2.4. Measurement, Data, and Probability

CC.2.4.HS.B.1-3,5