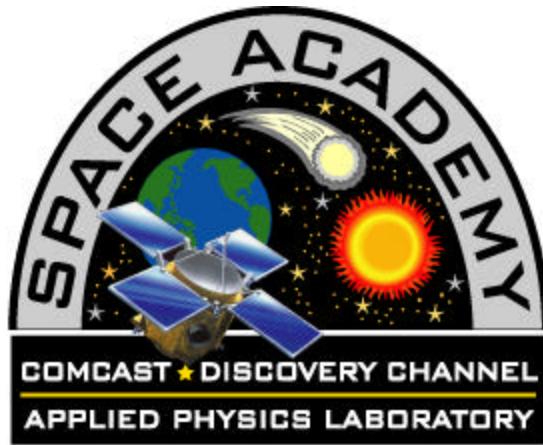


NAME \_\_\_\_\_ CLASS \_\_\_\_\_ DATE \_\_\_\_\_



## "Careers in Space" Video Activity

**OBJECTIVE:** To become familiar with types of careers in space and to make an educational plan that could lead to such a career.

**MATERIALS:**

- 10 minute video titled "**Careers in Space**" (produced by the Johns Hopkins University Applied Physics Laboratory)

This video is located in the video gallery section of the Space Academy Web site at: [www.spaceacademy.jhuapl.edu](http://www.spaceacademy.jhuapl.edu)

**TEACHER/STUDENT REFERENCES:**

- NASA's Look to the Future: Careers in Space at: <http://mgs-mager.gsfc.nasa.gov/Kids/careers.html>
- The Johns Hopkins APL's TIMED Web page at: <http://www.timed.jhuapl.edu/index.html>

In the Johns Hopkins APL video "Careers in Space," mechanical engineer Marc Clayton offers great advice to those thinking about such a career. "Start with your own interests!" declares Marc, "and you will find a rewarding place in the space industry." This is an industry that needs engineers and artists, technicians and writers, scientists and business people, artists and mathematicians and so many more talented people.

## Start With Your Own Interests!

Let's start searching for a career and career path to the space industry with an interest survey. Here is a list of careers in the space industry. Circle three of the careers that come closest to expressing your personal interests. Put your choices in priority order by ranking them 1 – your first choice, 2 – your second choice, and 3 – your third choice.

### Pilots or Crew Members

#### of a Spacecraft

Pilot Astronaut  
Mission Specialist  
Payload Specialist

### Life Scientists

Biologist  
Medical Doctor  
Physiologist  
Nutritionist  
Psychologist

### Technicians

Electrical/Electronics  
Engineering  
Aerospace Model  
Aircraft  
Avionics  
Fabrication  
Materials  
Pattern Maker and Molder

### Technical Communicators

Writer  
Artist  
Editor  
Education Specialist  
Public Relations  
Audiovisual Specialist  
Photographer

### Physical Scientists

Astronomer  
Chemist  
Geologist  
Meteorologist  
Physicist  
Oceanographer

### Mathematicians

Computer Scientist  
Mathematician  
Systems Analyst  
Statistician

### Engineering Designers

Architectural  
Electrical  
Mechanical

### Other Fields

Quality Control Inspector  
Ground Radio Operator  
Teletypist

### Business

Administrators/Managers  
Accountants  
Lawyers  
Clerks  
Admin Assistants/Secretaries  
Lobbyists

### Social Scientists

Economist  
Sociologist

### Engineers

Aerospace/Astronautics  
Chemical  
Civil  
Biomedical  
Computer  
Electrical  
Industrial  
Environmental  
Materials  
Mechanical  
Nuclear  
Petroleum  
Plastics  
Safety  
Systems

### Other

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

## The High School Years

Visit NASA's Web site "Careers in Aerospace Technology" at: <http://oea.larc.nasa.gov/PAIS/Careers.html>. Scroll down to the section titled "What Should You Do To Prepare For An Aerospace Career Now?" and look at some of the recommended high school courses.

Check with the high school that you will most likely attend and ask for a catalog of course offerings (they may even be available on a Web site). From the catalog list the courses that you think will help you to develop your own interests and also the ones that NASA recommends. Include relevant extra-curricular activities but don't include courses that you don't think are relevant.

	<b>INTEREST COURSES</b>	<b>SPACE COURSES</b>
<b>FRESHMAN YEAR</b>	_____	_____
	_____	_____
	_____	_____
	_____	_____
	_____	_____
<b>SOPHMORE YEAR</b>	_____	_____
	_____	_____
	_____	_____
	_____	_____
	_____	_____
<b>JUNIOR YEAR</b>	_____	_____
	_____	_____
	_____	_____
	_____	_____
	_____	_____
<b>SENIOR YEAR</b>	_____	_____
	_____	_____
	_____	_____
	_____	_____
	_____	_____

### **The College Years**

Visit the “**University Pages**” Web site at [http://isl-garnet.uah.edu/Universities\\_g/](http://isl-garnet.uah.edu/Universities_g/) and pick any college that offers a program of study that satisfies your interests and potential career in the space industry. Use the Web page of the college of your choice to answer the following questions:

1. Does your planned high school course of study satisfy the entry requirements for this college and the program that interests you? If not, what is missing?

(Choose another college if you don't meet the requirements and start over.)

2. If you are eligible and meet the admissions requirements:
  - a. What degree, diploma or certificate will you earn?
  - b. How long will it likely take to earn the degree, diploma or certificate?
  - c. What three courses can you take that will satisfy your special interest requirements?

- d. What do you think will be the three most difficult courses?
  - e. How much will it cost to earn the degree, diploma or certificate at this college?
3. Think about what you have learned about yourself and your aspirations for a satisfying career after completing this activity.
- a. Is a career in the space industry an option you will seriously consider?
  - b. Has this process helped you think about other career options?
  - c. What additional information will you look for in helping you to decide on the path to your future career?