





**Objective 4:**

Students will synthesize the history of space exploration and the contributions of diverse groups and interests.

**Expected Student Learning Outcomes 1, 2, and 3**

~~Information presented and discussed will be~~

**Rationale:**

Space travel has involved the efforts of people from many groups and nationalities. Students will learn what conditions led to the success of space exploration programs other than the United States.

## IV. Evaluation Methods

In-Class Writing	Short answers to questions on assigned readings	150%
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## IX. Bibliography

Burrows, William E., 1998, *This new ocean: The story of the first space age*: New York, Random House, 723 + xviii pp.

גרוסקופר, דבורה, 2005, *Space Race: The epic battle between America and the Soviet Union for*

*Dominion of space*: New York, Harper Collins, 373 + xii pp.

Chaikin, A., 1994, *A Man on the Moon*: Penguin Books, 688 p.

גולדמן, אריאל, 2005, *The Race to the Moon*: Harper Collins, 316 pp.

Empire-Tier, 2006, *A history of space exploration*: London, Mansura Books, 102 pp.

**Old Syllabus of Record**

Material in this course was changed to CEOS-154 and the title revised to Human Exploration

of Space by Senate approval on April 20, 2010 (UWUCC 09-59e).

**SYLLABUS OF RECORD**

**I. Catalog Description:**

CEOS 154 Human Exploration of Space — 3-0-3

**Prerequisite:** No Geoscience majors/minors

The history, technical considerations, and scientific and social issues of the exploration of the

surface of the Moon, Mars, and other celestial bodies, and the development of the space program.

Who goes into space?: The elite vs. inclusion, past and future  
What is next?

U.S. plans

Other countries in space

How much cost is too much? What is worth doing?

Return to the Moon/Visiting Mars/Living Beyond Earth

Final Exam during Final Exam Period

In-Class writing	Short answers to questions on assigned reading and prior class activities	15%
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**VIII. Special Resource Requirements**

There are no special resource requirements for this course

**IX. Bibliography**

~~Byrd, William F. 1959. *This new ocean: The story of the first voyage*. New York:~~

Random House, 723 + xviii pp.

~~Cordery, Deborah 2005. *Space-Race: The epic battle between America and the Soviet Union for*~~



**2. Summary of the proposed revisions.**

1. Objectives – course objectives from the 2008 syllabus of record were aligned with the

**Expected Undergraduate Student Learning Outcomes (EUSLO).**

2. Common Learning Objectives for non-laboratory Natural Science course were incorporated into the content of the course. These objectives include: examine a body of knowledge of natural science that will contribute to an understanding of the natural world and an appreciation of the impacts that natural sciences have on the lives of

individuals and the world in which they live; understand the differences between science as a knowledge base and science as a process that generates knowledge; develop an

inquiring attitude consistent with the tenets of natural science; understand the empirical nature of science; understand the concept of bias and the efforts to which scientists go



# Example Assignment and Rubric

## Time Line Project

This is a small assignment project to construct a time line of the First (1945-1972) or second (1972-

2003) space age for the U.S. or for the U.S.S.R. /Russia. It includes several parts:

### III. Rubric for paper:

Summarize the most important events on your timeline. How do they tie together? Why did you choose these events as most important? 300-500 words would be appropriate. To be submitted

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via Moodle. *Penalties for late work will apply*

Organization: Logical flow from introductory paragraph through event summaries to closing paragraph; point of paper is clear; length and scope appropriate. (0-5 points)

Arguments: Events you select as most important are clearly identified and summarized/It is clear what is original and what is from other authors. (0-10 points)

Written English: Use of grammar, spelling, word choice. (0-10 points)

Originality: Any direct quotes are properly cited and attributed; content of paper as presented is your own creation. (0-10 points)

35 points possible

Human Exploration of Space  
Time Line Score Sheet

Group:  
Assigned topic:

Points

Neat and readable appearance (up to 10 points)

1 inch or 25 mm per year and at least one sheet of paper wide.

Time(s) of events are identifiable (up to 5 points)

Events are in correct sequence (up to 5 points)

Appropriate choice of events (up to 10 points)

Events correctly described and key facts included (up to 5 points)

Human Exploration of Space  
Time Line Paper Score Sheet

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Student:  
Assigned topic:

Points

Organization: (up to 5 points)

Logical flow from introductory paragraph through event summaries to closing paragraph; ties within paper is clear; length and scope appropriate.

Arguments: (up to 10 points)

Events you select as most important are clearly identified and summarized/Event selection justified; It is clear what is original and what is from other authors.

Written English: (up to 10 points)

Use of grammar, spelling, word choice.

Originality: (up to 10 points)

Any direct quotes are properly cited and attributed; content of paper as presented is your own creation.

All sources of information listed if not on poster

Total  
(35 points possible)

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