Mission 1: Discover – NCAS Online

COURSE OBJECTIVES

- Demonstrate an understanding of NASA's past, present, and future missions and how they will contribute to the next generation of space exploration.
- Describe how the evolution of human presence in space has evolved over the past 60 years.
- Identify the various contributions NASA makes to the field of aeronautics.
- Identify how NASA has advanced our understanding of the solar system and beyond.
- Obtain skills and resources to pursue a career at NASA or in a STEM field.

COURSE DESCRIPTION

The course includes three modules containing readings, videos, short knowledge checks, a three-part NASA Subject Matter Expert Series, and a mission report. Instructional Assistants (IAs) guide students through the course to provide pacing, timely feedback, and grade assignments.

COURSE COMPONENTS

Course Materials

No textbook is required. All materials needed to successfully complete the course are available within the Canvas course.

Knowledge Checks

At the end of each activity, there is a 10-question knowledge check. Knowledge check questions come from various media sources to ensure content mastery. Each knowledge check counts as 10% of your final score with unlimited attempts to retake each knowledge check. Complete ALL knowledge checks with at least a 90% to unlock the mission report submission area.

Mission Report (Choose 1 option)

You will have three options for a mission report. All three options reference NASA's Moon to Mars program. The mission report will count as 40% of your final score. Please do not underestimate the mission report and put it off until the last minute. With the selection process for onsite experiences being more competitive than ever it is beneficial for you to begin on your mission report as soon as possible.

POINTS BREAKDOWN

Knowledge Checks

Module 1: Activity 1 Knowledge Check: *The Past and Present Exploration of Mars*	10	
Module 1: Activity 2 Knowledge Check: *The Human Exploration of Mars*	10	
Module 2: Activity 1 Knowledge Check: *The International Space Station*	10	
Module 2: Activity 2 Knowledge Check: *Your Home, Our Mission*	10	
Module 3: Activity 1 Knowledge Check: *Solar System and Beyond*	10	
Module 3: Activity 2 Knowledge Check: *We're with You When You Fly*	10	**60 POINTS**
Final Project (Choose 1)		
In-Situ Resource Utilization Capabilities / Habitation Systems Concept Studies / Lunar Rover Design	40	**TOTAL 100 POINTS**

COURSE WEBSITE

Access the course via a computer at https://nasastem.okstate.edu, or a mobile device by downloading the Canvas app. When prompted to enter a school name type, nspace.instructure.com then enter login credentials. For more information on how to download the Canvas app, please attend an Orientation session. For issues logging in or gaining access to the course, contact nasp@okstate.edu.

EXPECTATIONS

The course is self-guided to allow control of your pacing. To stay up to date with the course materials, consider the following tips:

Time Management

This course requires an estimated 25 hours of work over five weeks. You may need more or less time based on your personal learning and work style. This will require planning on your part. Good planning includes allowances for travel, Internet outages, etc.

Netiquette

NCAS provides a community of respect and inclusion. All participants must adhere to the following guidelines:

A. Use a kind and respectful tone.

B. Think before typing.

C. Respect others' time and bandwidth when posting.

D. Avoid sarcasm, both in written and verbal communications.

Communicate

NCAS Team and Instructional Assistants communicate entirely within the Canvas environment. Login frequently to receive messages and updates throughout the course. Contact your Instructional Assistant (IA) if you have questions, comments, or feedback.

CONTENT DELIVERY

- All content is in the Canvas learning management system.
- Access to a high-speed connection is optimal. Much of the content is in video form.
- Use either a Mac or Windows-based computer to access content. The Canvas app is also accessible via mobile device.
- Google Chrome, Mozilla Firefox, and Microsoft Edge browsers best support the content.
- Readings available in either web text or PDF.
- Videos available through YouTube or mp4 format.
- Access live sessions via computer, app or provided teleconference line.

CONTENT ORGANIZATION

Week 1	1. Complete Module 1 a. Activity 1 Knowledge check: The Past and Present Exploration of Mars b. Activity 2 Knowledge check: The Human Exploration of Mars 2. Attend Mission report Workshop 3. Review mission report options
Week 2	1. Complete Module 2 a. Activity 1 Knowledge check: The International Space Station b. Activity 2 Knowledge check: Earth: Your Home, Our Mission 2. Attend Mission report Workshop (Check Canvas for date, time and webinar link) 3. Select mission report topic
Week 3	1. Complete Module 3 a. Activity 1 Knowledge check: Solar System and Beyond b. Activity 2 Knowledge check: We're with You When You Fly 2. Submit optional Mission report Draft for IA feedback 3. Attend Subject Matter Expert Series (Check Canvas for date, time and webinar link) 4. Attend IA Office Hours
Week 4	1. Continue working on mission report using IA feedback 2. Attend Subject Matter Expert Series 3. Attend IA Office Hours
Week 5	1. Continue working on mission report using IA feedback 2. Attend Subject Matter Expert Series 3. Attend IA Office Hours
Week 6	7 p.m. – 8 p.m. CDT, May 31, 2022 8 a.m. CDT, June 1, 2022

Mission Report

EARLY DRAFT

Students may submit an early draft of the mission report for IA feedback. An early submission is simply a draft, not a completed paper. This option is worth zero points and has no bearing on your course grade.

FORMATTING

All mission reports require a cover page, reference page and no more than ten (10) pages of content.

Cover page

- Include project title, student name, and college.
- No page numbers.
- Not included in page count.

Reference page

- Final page of project.
- Format in reference style used by your college (ex. APA, MLA).
- Not included in page count.

Content pages

- 10-page maximum, including embedded graphics
- Number pages, starting on the first content page.
- Use 1" margins (top, bottom, sides).
- Indent each paragraph one-half inch.
- Double-spaced
- 12-point font, Times New Roman.
- Format using inline citation style used by your college (ex. APA, MLA)

PLAGIARISM

It is imperative that submissions are original. NCAS runs a plagiarism detection program on all final projects. Projects flagged for plagiarism risk receiving a grade of zero. Always cite other's work and include it on the reference page.

DUE DATES AND LATE POLICY

Due Dates

- Knowledge checks close 8 a.m. CDT, Thursday, May 26, 2022.
- Mission report due 8 a.m. CDT, Wednesday, June 1, 2022

NCAS Mission Report Late Policy

- Mission reports are electronically date/time stamped.
- All submissions after 8 a.m. CDT are late and automatically incur a 6-point deduction.
- Late mission reports are accepted until 8 a.m. CDT, Friday, June 3, 2022.

WELCOME TO NCAS!

Important Dates

Course Start	April 27, 2022	
Orientation (Recording will be provided in Canvas)	April 27, 2022 11:30 a.m. – 1 p.m. CDT	6:30 p.m. – 8 p.m. CDT
Mission report Workshop (Recording will be provided in Canvas)	May 4, 2022 11:30 a.m. – 1 p.m. CDT	6:30 p.m. – 8 p.m. CDT
Subject Matter Expert Lectures & IA Office Hours (Recording will be provided in Canvas)	Wednesday, May 11th, 2022 7 to 8 p.m. CDT Wednesday, May 18th, 2022 7 to 8 p.m. CDT Wednesday, May 25th, 2022 7 to 8 p.m. CDT Tuesday, May 31st, 2022 7 to 8 p.m. CDT	
Mission report Due & Course End	Wednesday, June 1, 2022 8 a.m. CDT	
Grade Published	Week of June 13	