



PATHWAY TO SPACE ASEN 1969: COVID-19 VERSION

SCHEDULE - SPRING 2020

All course topics, special guests, MAPs, STARS, and other assignment deadlines are below. Bring your Clicker to class each day as its use contributes directly to your grade. **All assignments are due by class unless otherwise stated.** The [Syllabus](#) and [assignment guidelines](#) can be found in **Canvas > Modules > Course Overview and Admin**.

WEEK 1

01 | TUESDAY 1/14 - CHRIS KOEHLER - COURSE OVERVIEW

TOPIC

Welcome to *Pathway to Space*!

KEY INGREDIENTS

1. Overview of the course.
2. Review syllabus, schedule, expectations, and assignments.
3. Short walk-through of the course format.

MAPs: Teams Announced - see list in Canvas ([MAPs Guidelines](#))

STARS: Teams Announced - see list in Canvas ([STARS Guidelines](#))

Video Capsule: None

Cosmos: Assigned - Episode #1 (due 01/21 by 11 PM)

ePortfolio: Assigned - Review [ePortfolio Guidelines](#) (final ePortfolio is due 04/28 by 11 PM)

Homework: Assigned - HW #1 Canvas Quiz (due 01/21)

Book: None

Other: Assigned - Bring your Clicker next class + Special Assignment from Syllabus (due 01/21)

02 | THURSDAY 1/16 - VALERIO FERME - SPACE AND WONDER

TOPIC

Discover how the “wonder” of space was the spark that ignited the age of human discovery.

KEY INGREDIENTS

1. Recognize that humans’ sense of wonder led us to explore space.
2. Connect the concept of “journey” to space discovery and exploration.
3. Provide examples of earlier civilizations’ endeavors to connect with the sky above.

MAPs: None

STARS: None

Video Capsule: DUE - Space and Wonder (~13 minutes)

Cosmos: None

ePortfolio: Assigned - ePortfolio Plan (due 01/28 by 11 PM)

Homework: None

Book: Assigned - Read Preface (Quiz #1 due 01/23)

Other: Assigned - Event Attendance (due 04/30 by 11 PM)

WEEK 2

03 | TUESDAY 1/21 - ERICA ELLINGSON - A TOUR OF THE COSMOS

TOPIC

A tour of the Solar System and the universe from the perspectives of size, scale and time.

KEY INGREDIENTS

1. Pinpoint pivotal events on the cosmic calendar.
2. Conceptualize the size and scale of the universe and describe the use of light-years as a scale of measurement.
3. Describe different objects in the cosmos (stars, the solar system, galaxies, the universe).
4. Identify our cosmic address.

MAPs: Team 1

STARS: Team 14

Video Capsule: DUE - A Tour of the Cosmos (~25 minutes)

Cosmos: DUE - Episode #1 by 11 PM, Assigned - Episode #2 (due 01/28 by 11 PM)

ePortfolio: None

Homework: DUE - HW #1, Assigned - HW #2 (due 02/06 by 11 PM)

Book: None

Other: DUE - Special Assignment from Syllabus, Assigned - Reflection Report #1 - The Space Minor and Me (due 1/30 by 11 PM)

04 | THURSDAY 1/23 - KEVIN FRANCE - ASTROPHYSICS

TOPIC

A basic overview of Astrophysics and the tools astrophysicists use, such as the Hubble Space Telescope, to understand the cosmos and our place in it.

KEY INGREDIENTS

1. Identify the difference between astrophysics and astronomy.
2. List tools that astrophysicists use to observe and understand the cosmos.
3. Understand that the study of spectroscopy uses tools like Hubble to answer questions about the cosmos.

MAPs: Team 2

STARS: Team 15

Video Capsule: DUE - Astrophysics (~28 minutes)

Cosmos: None

ePortfolio: None

Homework: None

Book: DUE - Quiz #1, Assigned - The Greatest Story Ever Told (Quiz #2 due 01/30)

Other: None

WEEK 3

05 | TUESDAY 1/28 - PAUL HAYNE AND CAROLYN CROW - SPACE EXPLORATION: GOING THERE

TOPIC

Discovering the cosmos through spacecraft missions to the Moon, Mars, and beyond.

KEY INGREDIENTS

1. Differentiate between “going there” and “viewing there” as two ways to explore the cosmos.
2. Compare and contrast the tools used by robots and humans when visiting other bodies in the solar system.
3. Discuss the advantages of visiting other places in the cosmos.

MAPs: Team 3

STARS: Team 16

Video Capsule: DUE - Space Exploration: Going There

Cosmos: DUE - Episode #2 by 11 PM, Assigned - Episode #3 (due 02/04 by 11 PM)

ePortfolio: DUE - ePortfolio Plan by 11 PM, Assigned - Resume (due 02/04 by 11 PM)

Homework: None

Book: None

Other: None

06 | THURSDAY 1/30 - KRISTY TIAMPO - SPACE EXPLORATION: VIEWING THERE

TOPIC

An introduction to the study of the dynamic Earth and its environment through remote sensing from space.

KEY INGREDIENTS

1. Differentiate between “going there” and “viewing there” as two ways to explore the cosmos.
2. Identify two types of remote sensing.
3. Describe how spectroscopy is used for remote sensing, and identify other potential tools for remote sensing.
4. Give examples of how remote sensing tools can be used to study the Earth and other objects in the cosmos.

MAPs: Team 4

STARS: Team 17

Video Capsule: DUE - Space Exploration: Viewing There (~26 minutes)

Cosmos: None

ePortfolio: None

Homework: None

Book: DUE - Quiz #2, Assigned - Earth as in the Heavens (Quiz #3 due 02/06)

Other: DUE - Reflection Report 1 by 11 PM, Assigned - Reflection Report 2 - My Connections with Space (due 03/03)

WEEK 4

07 | TUESDAY 2/4 - NICK SCHNEIDER - EXTENDING SCIENCE BEYOND EARTH: PART 1

TOPIC

How remote sensing techniques used to study the Earth can be applied to our solar system and beyond.

KEY INGREDIENTS

1. Identify tools used to explore the cosmos and planetary features such as atmospheres, temperatures, and geology.
2. Describe the types of changes in planetary features that can be detected by these tools.
3. Recognize how discoveries about other planets' features help us understand our own planet's environment.

MAPs: Team 5

STARS: Team 18

Video Capsule: DUE - Extending Science Beyond Earth: Part 1 (~35 minutes)

Cosmos: DUE - Episode #3 by 11 PM, Assigned - Episode #4 (due 02/11 by 11 PM)

ePortfolio: DUE - Resume by 11 PM, Assigned - Space/Career Meetings Scheduled (due 02/11 by 11 PM)

Homework: None

Book: None

Other: None

08 | THURSDAY 2/6 - BRIAN ARGROW/GIJS DE BOER - AERONAUTICS (CHANGED WAS FEB 13)

TOPIC

A personal perspective of aeronautics, the emergence of automation and drones, and how these technologies are expanding the capabilities of Earth-observation systems.

KEY INGREDIENTS

1. Define aeronautics and describe its connection to space.
2. Recognize that remote sensing methods can be enhanced when used with planes and drones.
3. Describe the ways that aeronautic methods can be applied beyond Earth.

MAPs: Team 6

STARS: Team 19

Video Capsule: DUE - Two Capsules - Aeronautics: Part 1 (~28 minutes) and Aeronautics: Part 2 (~23 minutes)

Cosmos: None

ePortfolio: None

Homework: DUE - HW #2 by 11 PM, Assigned - HW #3 (due 03/10 by 11 PM)

Book: DUE - Quiz #3, Assigned - Let There Be Light (Quiz #4 due 02/13)

Other: None

WEEK 5

09 | TUESDAY 2/11 - BRUCE JAKOSKY - THE SEARCH FOR LIFE ELSEWHERE

TOPIC

A geological discussion of whether there could be life on other planets or moons in our solar system, or on any of the planets recently discovered orbiting other stars.

KEY INGREDIENTS

1. List the signs and conditions required for life as we know it.
2. Understand the methods used to find evidence of life in space.
3. Summarize past and recently-discovered evidence of life in space and speculate future paths for exploration.

MAPs: Team 7

STARS: Team 20

Video Capsule: DUE - The Search for Life Elsewhere (~25 minutes)

Cosmos: DUE - Episode #4 by 11 PM, Assigned Episode #5 (due 02/18 by 11 PM)

ePortfolio: DUE - Space/Career Meetings Scheduled by 11 PM, Assigned - Vision Statement (due 02/18)

Homework: None

Book: None

Other: None

10 | THURSDAY 2/13 - DAVE BRAIN - EXTENDING SCIENCE BEYOND EARTH: PART 2 (CHANGED WAS FEB 6)

TOPIC

How remote sensing techniques used to study the Earth can be applied to our solar system and beyond.

KEY INGREDIENTS

1. Identify tools used to explore the cosmos and planetary features such as atmospheres, temperatures, and geology.
2. Describe the types of changes in planetary features that can be detected by these tools.
3. Recognize how discoveries about other planet's features help us understand our own planet's environment.

MAPs: Team 8

STARS: Team 21

Video Capsule: DUE - Extending Science Beyond Earth: Part 2 (~25 minutes)

Cosmos: None

ePortfolio: None

Homework: None

Book: DUE - Quiz #4, Assigned - Between the Galaxies (Quiz #5 due 02/20)

Other: None

WEEK 6

11 | TUESDAY 2/18 - TOM WOODS - NEAR SPACE

TOPIC

An overview of suborbital balloon, plane, and rocket technology to study the region between the reach of aeronautics vehicles and spacecraft.

KEY INGREDIENTS

1. Define near space.
2. Understand the advantages of high altitude balloons and suborbital rockets for studying regions of the Earth's atmosphere compared to planes and satellites.
3. Describe the differences between high altitude balloons and suborbital rockets.

MAPs: Team 9

STARS: Team 22

Video Capsule: DUE - Near Space (~19 minutes)

Cosmos: DUE - Episode #5 by 11 PM, Assigned - Episode #6 (due 02/25 by 11 PM)

ePortfolio: DUE - Vision Statement by 11 PM, Assigned - Community Service Idea (due 03/03 by 11 PM)

Homework: None

Book: None

Other: None

12 | THURSDAY 2/20 - DAVE MURROW - LAUNCH VEHICLES

TOPIC

Cover the basics of getting into space, current and near future launch vehicles, and a discussion on their capabilities.

KEY INGREDIENTS

1. Distinguish between the two primary types of launch vehicles: suborbital and orbital.
2. Explain the defining attribute of a launch vehicle.
3. Recall two types of propulsion used on launch vehicles.
4. Identify two or more launch sites in the US and explain the importance of those sites for launches.
5. Name two examples rockets of the past, present and future.

MAPs: Team 10

STARS: Team 23

Video Capsule: DUE - Launch Vehicles (~17 minutes)

Cosmos: None

ePortfolio: None

Homework: None

Book: DUE - Quiz #5, Assigned - Dark Matter (Quiz #6 due 02/27)

Other: None

WEEK 7

13 | TUESDAY 2/25 - STEVE NEREM - ORBITS

TOPIC

A basic overview of orbits, types and applications of orbits, Hohmann transfers, and gravity assists.

KEY INGREDIENTS

1. Define an orbit.
2. List different types of orbits.
3. Identify the properties that define an orbit, including time, velocity, altitude, shape, and inclination.
4. Explain how orbits are used.
5. Describe how a spacecraft can change from one orbit to another.

MAPs: Team 11

STARS: Team 24

Video Capsule: DUE - Orbits (~11 minutes)

Cosmos: DUE - Episode #6 by 11 PM, Assigned - Episode #8 (due 03/10 by 11 PM)

ePortfolio: None

Homework: None

Book: None

Other: None

14 | THURSDAY 2/27 - PENNY AXELRAD - THE GLOBAL POSITIONING SYSTEM

TOPIC

An overview of GPS - what it is, how it works, and the many ways we rely on it.

KEY INGREDIENTS

1. Describe what GPS is and how and why it was developed.
2. Explain how GPS works.
3. Summarize the ways that GPS is used in addition to its use for positioning.

MAPs: Team 12

STARS: Team 25

Video Capsule: DUE - The Global Positioning System (~27 minutes)

Cosmos: None

ePortfolio: None

Homework: None

Book: DUE - Quiz #6, Assigned - Dark Energy (Quiz #7 due 03/05)

Other: None

WEEK 8

15 | TUESDAY 3/3 - CHRIS KOEHLER - MID-SEMESTER CONVERSATION

TOPIC

We'll take this class to review how the course is going through input from students.

KEY INGREDIENTS FOR CHRIS

1. Better understand the student perspective on the course format.
2. Better understand the student perspective on the course assignments.
3. Determine where and how we can improve the student experience in the course.

MAPs: Team 13 - on any previous class or course overall

STARS: Team 26 - on any previous speaker (2 weeks advance notice required) or Chris, Ashleigh, CAs

Video Capsule: None

Cosmos: None

ePortfolio: DUE - Community Service - Idea by 11 PM, Assigned - Sample of Work - Idea (due 03/10)

Homework: None

Book: None

Other: DUE - Reflection Report 2 by 11 PM, Assigned - Reflection Report 3 - My Path to Space (due 04/30)

16 | THURSDAY 3/5 - CHRIS KOEHLER AND GUESTS - SPACECRAFT SYSTEMS

TOPIC

The basics of the spacecraft design process, systems engineering, and the numerous subsystems that make up a satellite.

KEY INGREDIENTS

1. Compare and contrast satellites and spacecraft.
2. List the basic systems of a spacecraft and describe their functions.
3. Understand the variations in size of spacecraft.

MAPs: Team 14

STARS: Team 27

Video Capsule: DUE - Spacecraft Systems Part 1 and Part 2 (~42 minutes Part 1 and ~40 minutes Part 2)

Cosmos: None

ePortfolio: None

Homework: None

Book: DUE - Quiz #7, Assigned - The Cosmos on the Table (Quiz #8 due 03/12)

Other: None

WEEK 9

17 | TUESDAY 3/10 - ALLIE ANDERSON - HUMAN EXPLORATION: PART 2

TOPIC

A deep dive into the systems required for humans to live in space with a focus on what CU is doing today to support the human exploration of space.

KEY INGREDIENTS

1. Describe the advantages and motivation of human space flight.
2. Reference the different destinations for human space travel.
3. Understand how humans can get to space.
4. Explain how the human body is affected by space travel.
5. Experience what it is like to be an astronaut in space.

MAPs: Team 15

STARS: Team 28

Video Capsule: DUE - Human Exploration: Part 2 (~23 minutes)

Cosmos: DUE - Episode #8 by 11 PM, Assigned Episode #11 (due 03/17 by 11 PM)

ePortfolio: DUE - Sample of Work - Idea by 11 PM, Assigned - Space/Career Meetings Reactions (due 04/07)

Homework: DUE - HW #3 by 11 PM, Assigned - HW #4 (due 04/07 by 11 PM)

Book: None

Other: None

18 | THURSDAY 3/12 - ASTRONAUT COLONEL JIM VOSS OR ASTRONAUT RICHARD HIEB OR BOTH - HUMAN EXPLORATION: PART 1

TOPIC

The rationale behind and challenges with human space exploration from a real astronaut's perspective.

KEY INGREDIENTS

1. Describe what is necessary to keep a human alive in space.
2. Explain how humans can stay healthy and productive in space.
3. Summarize how humans can be used to support research in space.

MAPs: Team 16

STARS: Team 1

Video Capsule: DUE - Human Exploration: Part 1 (~12 minutes)

Cosmos: None

ePortfolio: Assigned - Sample of Work submission (due 04/14 by 11 PM)

Homework: None

Book: DUE - Quiz #8, Assigned - Being Round (Quiz #9 due 03/19)

Other: None

WEEK 10

19 | TUESDAY 3/17 - ABBY BENSON - THE POLITICS OF SPACE

TOPIC

An overview of how national space policy is shaped, including the federal budget process, and the role of Congress, the Executive branch, and the state of Colorado.

KEY INGREDIENTS

1. Outline the basic steps in a funding cycle.
2. Describe how budgets become projects in space.
3. Explain how politics can affect budgets and policy in space.
4. Differentiate between federal and state politics in creating space policy.
5. Understand CU's role in the politics of space and how CU is affected by space politics.

MAPs: Team 17

STARS: Team 2

Video Capsule: DUE - The Politics of Space (~30 minutes)

Cosmos: DUE - Episode #11 by 11 PM, Assigned Episode #12 (due 03/31 by 11 PM)

ePortfolio: Assigned - Community Service Reaction and Photo (due 04/21 by 11 PM)

Homework: None

Book: None

Other: None

20 | THURSDAY 3/19 - PHIL LARSON - SPACE POLICY

TOPIC

A basic overview of what space policy means and how it formed along with how it has changed over the years.

KEY INGREDIENTS

1. Provide a basic definition of "policy" and "space policy."
2. Give examples of how policy has shaped our exploration and utilization of space.
3. Describe the process for making policies about space.
4. Identify future policy issues in space.

MAPs: Team 18

STARS: Team 3

Video Capsule: DUE - Space Policy (~28 minutes)

Cosmos: None

ePortfolio: None

Homework: None

Book: DUE - Quiz #9, Assigned - Invisible Light (Quiz #10 due 04/02)

Other: None

WEEK 11

SPRING BREAK - NO CLASSES

WEEK 12

21 | TUESDAY 3/31 - JAY KEISTER - SPACE AND MUSIC

https://cuboulder.zoom.us/j/878268496	
MEETING ID: 878 268 496 PASSWORD: PATHWAY-21	+13462487799,,878268496# US (HOUSTON) +16699006833,,878268496# US (SAN JOSE)
HTTPS://PADLET.COM/PATHWAY_AHA_ROCKETS/YJN5N670ET59 OR HTTPS://TINYURL.COM/AHA-ROCKET	

TOPIC - An examination of the ways we use music to think about space, and space to think about music.

KEY INGREDIENTS

1. Describe how music has shaped humanity's perception of space.
2. Understand that music has helped to shape humanity's perception of space as something wonderful as opposed to fearful.
3. Give examples of musical works that have played a role in humanizing space and explain how they have done so.

MAPs: Team 19

STARs: Team 4

Video Capsule: DUE - Space and Music (~23 minutes)

Cosmos: DUE - Episode #12 by 11 PM, Assigned - Episode #13 (due 04/07 by 11 PM)

ePortfolio: None

Homework: None

Book: None

Other: None

22 | THURSDAY 4/2 - JIM STUART - SPACE ENTREPRENEURSHIP: STARTING THE 2ND SPACE AGE

https://cuboulder.zoom.us/j/969318971	
MEETING ID: 969 318 971 PASSWORD: PATHWAY-22	+16699006833,,969318971# US (SAN JOSE) +13462487799,,969318971# US (HOUSTON)
HTTPS://PADLET.COM/PATHWAY_AHA_ROCKETS/QK25PNYWV9IT OR HTTPS://TINYURL.COM/AHA-ROCKET	

TOPIC - An examination of entrepreneurship's role in the development of the space industry and civilian engagement in space exploration and science.

KEY INGREDIENTS

1. Define "entrepreneurship."
2. Describe how entrepreneurship has advanced space exploration.
3. Outline the qualities of a successful space entrepreneur.

MAPs: Team 20

STARs: Team 5

Video Capsule: DUE - Space Entrepreneurship: Starting the 2nd Space Age (~33 minutes)

Cosmos: None

ePortfolio: **DUE - New ideas for Community Service and Sample of Work (if you need to update)**

Homework: None

Book: **UPDATE - Book Quiz #10 now DUE 04/09 by 11 PM**

Other: None

WEEK 13

23 | TUESDAY 4/07 - DAN BAKER - THE BUSINESS OF SPACE

https://cuboulder.zoom.us/j/734539803	
MEETING ID: 734 539 803 PASSWORD: PATHWAY-23	+16699006833,,734539803# US (SAN JOSE) +13462487799,,734539803# US (HOUSTON)
HTTPS://PADLET.COM/PATHWAY_AHA_ROCKETS/7PLXTZAEWSKR OR HTTPS://TINYURL.COM/AHA-ROCKET	

TOPIC - An overview of the societal role of space, government space exploration programs, and the future of space in academia and industry.

KEY INGREDIENTS

1. Recognize the size of the space industry.
2. Discuss the potential of growth in the space industry.
3. Explain the prospects for growth in the space industry.
4. List examples of businesses in the space industry.
5. Understand the differences of conducting business in space vs. say real-estate.

MAPs: Team 21

STARS: Team 6

Video Capsule: DUE - The Business of Space (~30 minutes)

Cosmos: DUE - Episode #13 by 11 PM

ePortfolio: **UPDATE - Space/Career Meeting Reactions and Sample of Work due next week (04/14) by 11 PM**

Homework: DUE - HW #4 by 11 PM

Book: None

Other: None

24 | THURSDAY 4/09 - PAUL DAUGHERTY - THE JOURNALISM OF SPACE

https://cuboulder.zoom.us/j/904879569	
MEETING ID: 904 879 569 PASSWORD: PATHWAY-24	+16699006833,,904879569# US (SAN JOSE) +13462487799,,904879569# US (HOUSTON)
HTTPS://PADLET.COM/PATHWAY_AHA_ROCKETS/3GE6ZY1M5X5Y OR HTTPS://TINYURL.COM/AHA-ROCKET	

TOPIC - A deep dive into reporting on space, how it influences the politics, policy, and public perception of space and why it is important to document space.

KEY INGREDIENTS

1. Describe how reporting on space influences space politics, policy, and the public perception of space.
2. Summarize how reporting on space has changed over time.
3. Explain why journalism is important to the future of space exploration.

MAPs: Team 22

STARS: Team 7

Video Capsule: DUE - The Journalism of Space (~27 minutes)

Cosmos: None

ePortfolio: None

Homework: None

Book: DUE - Quiz #10, Assigned - Between the Planets (Quiz #11 due 04/16)

Other: None

WEEK 14

25 | TUESDAY 4/14 - JAY LINDELL - COLORADO'S LEADERSHIP IN THE SPACE INDUSTRY

https://cuboulder.zoom.us/j/423045340	
MEETING ID: 423 045 340 PASSWORD: PATHWAY-25	+13462487799,,423045340# US (HOUSTON) +16699006833,,423045340# US (SAN JOSE)
HTTPS://PADLET.COM/PATHWAY_AHA_ROCKETS/W9H9T38O4177 OR HTTPS://TINYURL.COM/AHA-ROCKET	

TOPIC - A discussion of Colorado's growing space industry and global role in the development of space capabilities.

KEY INGREDIENTS

1. Understand the size and significance of Colorado's space industry.
2. Describe why Colorado is heavily involved in the space industry.
3. Identify ways that students from any background can be involved in Colorado's space industry.

MAPs: Team 23

STARS: Team 8

Video Capsule: DUE - Colorado's Leadership in the Space Industry (~23 minutes)

Cosmos: None

ePortfolio: **DUE - Space/Career Meeting Reactions and Sample of Work by 11 PM, Community Service completion due next week (04/21)**

Homework: None

Book: None

Other: None

26 | THURSDAY 4/16 - WILLIAM KUSKIN - COMICS AND SCIENCE

https://cuboulder.zoom.us/j/186835401	
MEETING ID: 186 835 401 PASSWORD: PATHWAY-26	+16699006833,,186835401# US (SAN JOSE) +13462487799,,186835401# US (HOUSTON)
HTTPS://PADLET.COM/PATHWAY_AHA_ROCKETS/S3OHFI9CP9DO OR HTTPS://TINYURL.COM/AHA-ROCKET	

TOPIC - A look at the role of space in comics and how that medium has helped shape our perception of the cosmos.

KEY INGREDIENTS

1. Describe how science fiction influenced the adoption of space in daily life and other art forms.
2. Infer why space is easily and often incorporated into science fiction.
3. Give examples of great space science fiction and discuss what components make them successful.

MAPs: Team 26

STARS: Team 11

Video Capsule: DUE - Science Fiction (~30 minutes)

Cosmos: None

ePortfolio: None

Homework: None

Book: DUE - Quiz #11, Assigned - Exoplanet Earth (Quiz #12 due 04/23)

Other: **Moonwalk is cancelled :(but we are working on a virtual party - details soon**

WEEK 15

27 | TUESDAY 4/21 - ERIN ESPELIE - THE ART OF SPACE

https://cuboulder.zoom.us/j/195799528	
MEETING ID: 195 799 528 PASSWORD: PATHWAY-27	+13462487799,,195799528# US (HOUSTON) +16699006833,,195799528# US (SAN JOSE)
HTTPS://PADLET.COM/PATHWAY_AHA_ROCKETS/M2MHAM2Q6CDN OR HTTPS://TINYURL.COM/AHA-ROCKET	

TOPIC - An examination of the role of art in space and its influences on our human nature to contribute to the larger understanding of the cosmos and our place in it.

KEY INGREDIENTS

1. Understand how art uses many of the senses to contribute to our understanding of the cosmos.
2. Explain how art illustrates our place in the cosmos.
3. Recognize the energy and work that goes into making art scientifically accurate and correct.

MAPs: Team 25

STARs: Team 10

Video Capsule: DUE - The Art of Space (~10 minutes)

Cosmos: None

ePortfolio: DUE - Community Service Reaction & Photo by 11 PM, final ePortfolio due next week (4/28)

Homework: None

Book: None

Other: None

28 | THURSDAY 4/23 - ERNESTO ACEVEDO-MUÑOZ - SPACE IN MOVIES

https://cuboulder.zoom.us/j/905852425	
MEETING ID: 905 852 425 PASSWORD: PATHWAY-28	+16699006833,,905852425# US (SAN JOSE) +13462487799,,905852425# US (HOUSTON)
HTTPS://PADLET.COM/PATHWAY_AHA_ROCKETS/MAP4NF5G9ETK OR HTTPS://TINYURL.COM/AHA-ROCKET	

TOPIC - An overview of how movies transport our minds and alter our perceptions of space.

KEY INGREDIENTS

1. Describe how movies have shaped humanity's perception of space.
2. Give examples of movies that have played significant roles in shaping humanity's perception of space.
3. Interpret what makes space fascinating to film and TV producers.
4. Summarize the roles and processes that help bring space-related movies to life.

MAPs: Team 24

STARs: Team 9

Video Capsule: DUE - Space In Movies (~34 minutes)

Cosmos: None

ePortfolio: None

Homework: None

Book: DUE - Quiz #12, Assigned - Reflections on the Cosmic Perspective (Quiz #13 due 04/30)

Other: None

WEEK 16

29 | TUESDAY 4/28 - CHRIS KOEHLER - ONE PATHWAY TO SPACE

https://cuboulder.zoom.us/j/540814418	
MEETING ID: 540 814 418 PASSWORD: PATHWAY-29	+13462487799,,540814418# US (HOUSTON) +16699006833,,540814418# US (SAN JOSE)
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TOPIC - A real life example of how one book influenced three individuals and forever changed humans from cave dwellers to star explorers.

KEY INGREDIENTS

1. Explain how “From the Earth to the Moon” shaped modern rocketry.
2. List the founding fathers of modern rocketry and describe how they found their pathways to space.
3. Understand how their work paved the way for our world of space today.

MAPs: Team 27
STARs: Team 12
Video Capsule: DUE - One Pathway to Space (~31 minutes)
Cosmos: None
ePortfolio: DUE - Final ePortfolio by 11 PM
Homework: None
Book: None
Other: None

30 | THURSDAY 4/30 - LAST CLASS

https://cuboulder.zoom.us/j/880852654	
MEETING ID: 880 852 654 PASSWORD: PATHWAY-30	+13462487799,,880852654# US (HOUSTON) +16699006833,,880852654# US (SAN JOSE)
HTTPS://PADLET.COM/PATHWAY_AHA_ROCKETS/W7O2TRBLZD2W OR HTTPS://TINYURL.COM/AHA-ROCKET	

TOPIC - A review of the course and our progress this semester to hear what worked and what didn't as well as a discussion about the final exam.

KEY INGREDIENTS

1. Did the course meet your expectations?
2. Did you find your path?
3. Gain a better understanding of the final exam format and how to prepare.

MAPs: Team 28 on any previous class or course overall
STARs: Team 13 on any previous speaker (2 weeks advance notice required) or Chris, Ashleigh, CAS
Video Capsule: None
Cosmos: None
ePortfolio: None
Homework: None
Book: DUE - Quiz #13
Other: DUE - Event Attendance x 2 and Reflection Report 3 by 11 PM

FINAL EXAM

MONDAY, MAY 4TH - 1:30-4:00 PM - DETAILS ARE STILL BEING WORKED OUT AS OF MARCH 28, 2020

The final exam for ASEN 1969 is multiple choice and covers content covered in class, the Video Capsules, and the Cosmos assignments. The final exam will take place Monday, May 4, 2019 from 1:30-4:00 PM in Muenzinger E050.