



(Earth System Science)



Science Elective	ACCN: SEH2003	1 credit
Instructor: Ms. Pickett	Room Number: G103	Email: stephanie.pickett@k12.hi.us

Course Description:

This is your ticket to exploring the universe! We go beyond books to do hands-on activities and group missions to figure out how the universe works. You will learn how to use telescopes, observe and analyze exoplanet transits, identify objects and constellations in the night sky, and create colorful astronomy images. We will be taking our own data through our access to Las Cumbres Observatory Global Telescope. You will participate in MaunakeaScholars where you may earn the opportunity to do your own research using the world-class telescopes on Maunakea. We will also do stargazing events and go on a field trip to Keck Observatory headquarters. Showing up to class each day is super important because we do everything as a team! Get ready for awesome space adventures!

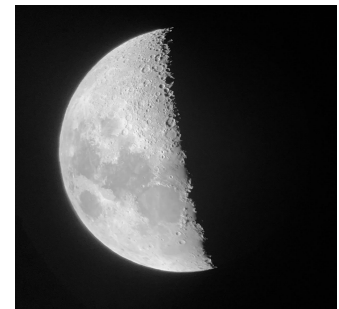


Course Highlights

- Use telescopes at stargazing events
- Field trip to Keck Observatory Headquarters
- Find and identify objects and constellations in the night sky
- Use Las Cumbres Observatory Global Telescope to take data for research projects
- Analyze real astronomy data
- Detect exoplanets and create transit lightcurves
- Classify supernovae (exploding stars)
- Galaxy classification for citizen science project
- Make colorful astronomy images
- Apply for telescope time on Maunakea

Who should take this class?

- Open to 10th, 11th, and 12th graders
- Can come to class everyday, no attendance issues
- Interested in astronomy / space
- Willing to look at the night sky each week for homework
- Looking for a fun 4th science credit with low workload outside of class



Course Type & Pathway Alignment

This is a Science Elective meaning you will get a science credit or an elective credit if you already have your 3 science credits to graduate. If you want to graduate with honors, you need 4 science credits.