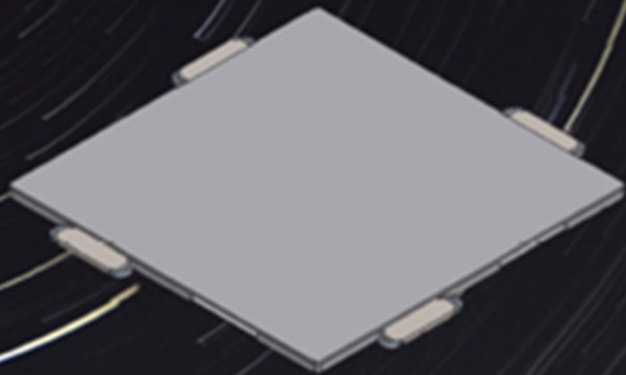


Electrodynamic Dust Shielding for Lunar Exploration



This course covers a variety of engineering topics that are essential to the development of Caltech's Electrodynamic Dust Shielding (EDS) system that has been recently selected by NASA for development to mitigate the effects of moon dust on lunar exploration and colonization.

After reviewing fundamentals of EDS and space system engineering, students will have an opportunity to apply their classroom knowledge to the real development of the Habitat Orientable and Modular Electrodynamic Shield (HOMES) that establishes a modular architecture of EDS. This class will also have classroom discussion sessions, team design meetings, and guest lectures by NASA engineers who are developing dust mitigation systems for NASA's Artemis program.

For more information,
see [Student-Led Moon Dust Shield Team Named Finalist in NASA Competition](https://www.caltech.edu/news/student-led-moon-dust-shield-team-named-finalist-nasa-competition) | www.caltech.edu.

Instructor: Dr. Soon-Jo Chung
6 units (2-0-4): Spring 2021