

Program itinerary*

Week A	
Day 1	A unique experience begins with CASE Senior Space School! Students depart home for Houston, TX with a flight time of approximately 20-22 hours. On arrival into Houston, the scene is set with the official CASE Space School Opening Ceremony, an introduction to the daily success principles and team building activities. It's then time for a well-earned rest in readiness for an exciting program.
Day 2	Space University begins, based at Johnson Space Center (JSC), NASA's headquarters. Students participate in a series of exciting NASA courses. Course elements today include the design of rockets and landing parachutes and protective thermal heat shields. CASE ChallengeX is an integral part of the coursework; this evening teams are briefed on the upcoming challenge. After dinner, students learn the history of space exploration with the Space Race movie night.
Day 3	Space University progresses with teams building and testing their robotic Mars Rovers in competition; and the design and build of a habitat for living on Mars. Teams learn how to incorporate arts, science and technology to invent individual and creative solutions. In the evening, students are in for a unique treat with an exclusive dinner with the CASE Special Advisor, former astronaut, Nicole Stott.
Day 4	Space University challenges the students as they develop budgets for their own space missions; before learning about the astonishing field of NASA robotics. Students are briefed on the humanoid robotics technology and its inspiration for new applications, both in space and on earth. This evening they meet a Scientist or Engineer for an inspiring and interactive presentation.
Day 5	A tour takes students behind the scenes at Johnson Space Center. Students receive exclusive access to workings of NASA, including the Neutral Buoyancy Lab; historic Mission Control that monitored the moon landings; new ISS Mission Control; and Space Vehicle Mock-up Facility. Afternoon scuba diving engages the students' teamwork and problem-solving skills as they attempt to overcome the difficulties of working in a neutrally buoyant environment.
Day 6	Space University final day has the teams in their final Mars mission simulations and presenting their USD\$600m mission at NASA. Students are awarded with their NASA certificates at an official graduation ceremony. An inspiring afternoon with plenty of question time, during a visit to a cutting-edge NASA 3rd party partner to see the latest rocket technology. Later in the day they will have the chance to relax and explore a wide range of stores on a shopping trip to a mall.
Day 7	Today at the Expedition Center students immerse in space mission training where they take on the role of scientist or flight engineer in complex simulations. The teams debrief to understand their success in risk management and team cooperation. Then it's an evening of inspiration as students engage with a guest speaker from the space, science and/or engineering fields.

Week B

Day 8	A day of exploring the fascinating Houston Museum of Natural Science and then a specialist spacesuit engineering lab learning how to prototype new space suit designs for functionality in the tough conditions of space. Followed in the evening by an exciting cultural experience attending a live basketball or baseball game, depending on the season.
Day 9	Students travel to San Francisco where an afternoon of cultural experience awaits. The CASE ChallengeX team presentations are held this evening as students demonstrate their creativity, project management, resource allocation and leadership skills to determine the best concepts to go through to the final round.
Day 10	This morning students are involved in an engaging Introduction to Entrepreneurship workshop during which they will learn how to think like an entrepreneur and about the innovation process so integral to Silicon Valley. Later, a new high-tech environment inspires the students to think beyond space for application of their developing STEAM-skills.
Day 11	Students explore a remarkable tech start-up during another private industry site visit. A challenging afternoon ahead in the CASE ChallengeX Finals. Bringing together the knowledge and skills acquired during the program, teams present to a panel of experts, scientists and engineers. The ensuing Space School graduation ceremony and celebratory dinner marks the completion of the CASE Senior Space School program.
Day 12	At Stanford University students explore the grounds and academic buildings of this famous institution in a guided tour. The group then attends a lecture by a STEM faculty member. In the afternoon it's time for a well-earned sightseeing break, visiting some of San Francisco's most famous tourist and shopping spots. Students then head to San Francisco International Airport for their late evening departure and journey home.
Day 13-14	Expedition completed! With a transit time of approximately 20-22 hours students can reflect on their adventure and are farewelled with a closing ceremony at the airport when the group arrives back home.

*Proposed itinerary- program is subject to change, and weeks A and B are interchangeable