



# CASE Senior Space School

## Program Itinerary\*

WEEK A	
Day 1	Your 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, there are some important safety briefs before checking in to your hotel. After dinner, students relax while learning the history of space exploration with the Space Race movie night. It's then time for a well-earned rest in readiness for an exciting program.
Day 2	Today, it's time to get to know your new friends and teammates! The scene is set with the official CASE Space School Opening Ceremony, an introduction to the daily success principles and a fun and active morning of team building activities. Time to sample the local cuisine and then it's back to the hotel for an introduction to ChallengeX. CASE ChallengeX is an integral part of the coursework; this evening teams are briefed on the upcoming challenge and participate in a design thinking workshop to start ideating.
Day 3	Space University begins, based at Johnson Space Center (JSC), NASA's headquarters. Students participate in a series of exciting NASA courses to develop their own Mars mission. Today, Space University challenges the students as they develop budgets for their own space missions. Teams learn how to incorporate arts, science and technology to invent individual and creative solutions when designing their rockets and protective thermal heat shields.
Day 4	A tour takes students behind the scenes at Johnson Space Center. Students receive exclusive access to workings of NASA, including Rocket Park; historic Mission Control that monitored the moon landings; and the 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 5	Space University progresses with teams 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. Then teams get hands-on, building and testing their robotic Mars Rovers in competition. This evening, they meet a Scientist or Engineer for an inspiring and interactive presentation.
Day 6	Space University final day has the teams launching their rockets and presenting their USD\$800Bn mission. Students are awarded with their NASA certificates at an official graduation ceremony. An exciting night lies ahead with the Astronaut Dinner, where students enjoy an exclusive presentation with a former NASA Astronaut and the chance for a selfie!
Day 7	Today at George Observatory 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, including a private team coaching session with the expert presenter to obtain feedback on their ChallengeX concepts.

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WEEK B	
Day 8	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 students have the chance to relax and explore a wide range of stores on a shopping trip to a mall. 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 to commence their Innovation Incubator, focusing teams on developing their ChallengeX start-up space business. First though, an afternoon of cultural activity awaits, including grounds tours of some iconic Silicon Valley companies. The evening is dedicated to ChallengeX preparation as the teams spend time ensuring the scientific and commercial viability of their innovative space concepts.
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. Round one of the CASE ChallengeX innovation pitches are held this evening as students demonstrate their creativity, project management, resource allocation and leadership skills. The best concepts to go through to the final round.
Day 11	This morning, a new high-tech environment inspires the students to think beyond space for application of their developing STEAM-skills. The afternoon CASE ChallengeX Finals brings together the knowledge and skills acquired during the program; teams present to a panel of experts, scientists and engineers. The Space School graduation marks the completion of the CASE Senior Space School program. A celebratory dinner follows for their final night in the USA.
Day 12	At Stanford University students explore the grounds of this famous institution in a fun and active scavenger hunt with plenty of time for a visit to Stanford's official bookstore. In the afternoon it's time for a well-earned a 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.

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