



Learn beyond the
classroom

CASE JUNIOR SPACE SCHOOL

An International Study Program

- + HIGHLY ENGAGING EXPERIENTIAL LEARNING
- + LEARN FROM EXPERTS + ON-SITE AT NASA



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CASE JUNIOR SPACE SCHOOL

CASE Space School programs are delivered in collaboration with NASA, and various scientists, professors, and educational personnel. The aim is to develop students' interest in STEAM. The program extends to combine team management principles, motivational applications and experiential learning on-site at NASA. This highly engaging and empowering approach makes the CASE Space School renowned all over the world.

PROGRAM FEATURES

Exploring space, science and principles

CASE Space School is one of the few short-term youth study programs in the world covering science, management and space, to provide students with a most exciting motivational study platform. During CASE Space School, NASA astronauts, engineers, scientists are specially invited to give professional and interactive presentations to students.

Get to know NASA, talk to the best in the field

Students will gain a deeper knowledge of CASE Space School through mission simulators to Mars and the Moon, engage in unique and insightful discussions with the best engineers, scientists and managers of NASA. They have the opportunity to visit mock up facility for the assembly of the International Space Station, design the Mars exploration rover, build and launch rockets, visit the Apollo Mission Control Center and much more.

Highly engaging experiential learning

CASE Space School students will be placed in mission control and taking part in simulated space missions. They will learn about goal-setting, project planning, resource management, crisis management and teamwork. Students develop independent thinking, empowering creativity, resilience as well as developing team spirit and encouraging them to truly reach for the stars.

Space mission simulators and supporting earth science

A project-program design that focuses on the student, with the incorporation of space mission scenarios, problem-based learning and technically-challenging anomalies, leads to the most efficient and exciting learning experiences within a minimal time frame.

US Space Center and CASE Space School Certificates

Upon completion students will be awarded two international certificates:

- Certificate from the US Space and Rocket Center
- Certificate from CASE Space School International Study Program



Astronaut training, Extra-Vehicular Activity (EVA)



Build and launch rockets



Space Multi-Axis Simulation Machine



Manned Maneuvering Unit, frictionless simulation



Graduation ceremony

THE JUNIOR PROGRAM

Outline

- Understand key principles of rocket and space travel
- Teamwork and collaboration
- Crisis management
- Motivational themes and their applications
- Application of the Problem-Based Learning (PBL) approach to challenging scenarios
- Understand the activities of NASA mission control at the Lyndon B. Johnson Space Center, Houston
- Attend astronaut training in the Space Academy at the U.S. Space & Rocket Center

Activities

- Tour of NASA facilities
- Discussion with NASA scientists, engineers, mission control and astronauts
- Attend lectures and teamwork in labs
- Hands-on experiments in cellular analysis
- Team building and motivational activities
- Investigate marine biology
- Explore energy production
- Astronaut training
- Mars and Space Shuttle missions simulators
- Study space exploration
- Study experiments on the International Space Station
- Astronaut physical training equipment
- Motivated personal development
- Rocket construction and launch

Learning Outcome

- Development of critical thinking and problem solving skills
- Skills in goal setting and project planning to set and achieve targets
- Effectiveness in collaborative teamwork
- Application of STEAM in challenging space missions
- Greater initiative, responsibility and leadership through influence
- Curiosity and imagination
- Pursuit of personal values and long-term goals

PARTICIPANTS

CASE Junior Space School

Years 8, 9 and 10

TIME & LOCATION

Available during New Zealand school term breaks on site in Houston, Texas, USA, and Huntsville, Alabama, USA



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Empower Youth for Future Success

THE CASE SPACE SCHOOL DIFFERENCE



Other providers CASE Space School delivers a more profound learning outcome than other providers.

CASE Space School provides a forward-looking, unique and experiential based study program that complements conventional school education, and strengthens critical developmental skills for students. The program runs during the school term breaks to deliver engaging learning experiences, in which the students will receive the most exciting education and the most effective learning program within a short period of time.

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Actura provides the leading STEAM learning solution spanning in-class and out-of-class environments. From the ultimate robotic in-class FlipRobot range to the exclusive CASE Space School International Study Program, students will be empowered for their future success.

CASE

The California Association for STEAM Education (CASE) is a non-profit organisation. Headquartered in Cupertino, California. CASE was established by educators, industry leaders, and entrepreneurs to advocate excellence in STEAM education through the development and implementation of innovative in-classroom curriculum and extra-curricular education programs.

IMPORTANT INFORMATION

- Program cost includes: Tuition fee, admission to program events, accommodation and meals.
- Travel costs are indicative and include: Airfares and insurance
- Accommodation: Students share 2-3 per room in a 4 star business hotel. The hotel is secure, well serviced and provides rooms for group activities.
- Medical doctor arrangement: Doctors from Houston Medical Center.
- School nurse set up at the hotel, medical facilities nearby.

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CASE SPECIAL ADVISOR

Nicole Stott

"The Artistic Astronaut"

Astronaut | Artist, First Astronaut to Paint in Space
Former NASA Astronaut, engineer, currently an educator and artist. With two space flights, and 104 days living on board the ISS. Nicole is the first astronaut to paint in space and is the Special Advisor to CASE.

STUDENT TESTIMONIALS

" My experience at Space School has been amazing. I loved almost everything, mainly all of the astronaut speeches and the inspiration they gave me to follow my dreams and never give up, I liked all of the activities planned throughout the day and learnt all about the Seven Habits which I never knew even existed."

Loreto Kirribilli, Sydney

" This Space School trip has inspired me to travel beyond my capabilities. I understood qualities of others and discovered new qualities about myself in this trip. My connection with my crew trainers improved my learning and giving my group and I a better experience there for leaning new areas of science I thought I could never learn."

Wesley College, Melbourne

" From the beginning to the end, there were fun activities, amazing people and supportive elders. All of the experiences made you realise how lucky we are to be on this trip. I have learned never to give up on your dreams and anything is possible no matter how hard your dream may be."

Knox Grammar School, Sydney