



Training for
Young Explorers

CASE Junior Space School

The Ultimate STEAM International Study Program

Highly engaging experiential learning

Learn from experts on-site at NASA

University of California approved

actura

CASE Space School International Study Program

CASE Space School provides an enriched STEAM learning opportunity for students that supports Australian secondary curriculum and is academically recognised in the USA. Working collaboratively with NASA personnel, the US Space and Rocket Center, science facilities and private enterprise, we offer students a unique blend of highly immersive and fun STEAM experiences combined with empowering personal skills development.

We aim to ignite and fuel the passion in students to pursue a future in STEAM and to give them the skills to make it a reality. Space School students are empowered to Dream Big and Commit to it.

CASE Junior Space School: Training Young Explorers

Physical and Equipment Training

Students gain an understanding of the physical and mental challenges of life as an astronaut through a series of practical individual and team-based activities. Equipment simulators, realistic space missions and challenging teamwork activities, immerse Space School students in life as an astronaut trainee.

NASA Space Science

Students gain an overall appreciation of NASA's work and the US space program. Students learn about the history and future of space travel as they take a tour of a working NASA facility, see real NASA space vehicles and robots.

Biological Science

Understanding human biology is fundamental to space science given the extreme demands placed on the human body in space. This unit enhances students' learning in human and marine biology via two exciting laboratory-based experiences, with instruction by specialist educators.

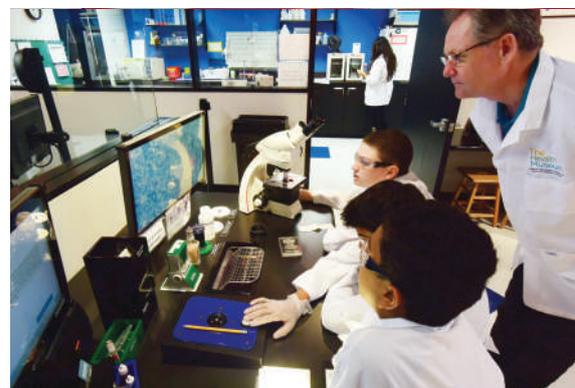
Earth & Environmental Science

By providing students with an enhanced understanding of both traditional and renewable energy sources and production, this unit serves as an important introduction to the burgeoning areas of space mining and off earth energy production.

Personal & Leadership Development

CASE mPOWER experiences take a wholistic approach to personal and leadership development. With the 7 Habits of Highly Effective Teens as the guiding principal, students are empowered to identify their passions and talents, set their goals and to learn and practice the essential skills they need to achieve those goals.

This highly motivating unit also features guest speakers from NASA and its partner organisations who speak about their specialist STEAM area and interact personally with students.





CASE Space School Framework

Built on the foundation of the Seven Survival Skills by Harvard Professor, Tony Wagner, the program offers three key pillars of learning including enriched space and earth science activities, inspiring leadership development, and engaging personal development.

The Ultimate STEAM Experience

**Enriched Space
and Earth Science
Activities**

**Inspiring
Leadership
Development**

Motivational
Speakers
Teamwork

**Engaging Personal
Development
Program**

7 Habits of Highly
Effective Teens

Seven Survival Skills

Transportable Skills Set for the 21st Century

Activities

- Tour NASA facilities
- Presentations by NASA scientists, engineers, mission control and astronauts
- Discussions with leading professionals from NASA and its partner organisations
- Hands-on laboratory experiments
- Undertake cellular analysis
- Investigate marine biology and perform a shark dissection
- Explore traditional and renewable energy production
- Hands-on rocket design, construction and launch
- Astronaut training and equipment simulators
- Mars and Space Shuttle mission simulations
- Learn the history and future of space exploration
- Challenging teamwork scenarios
- Motivating personal and leadership development
- Fun cultural experiences

Learning Outcomes

- Development of critical thinking and problem solving
- Enhanced interests in STEAM related subjects
- Effectiveness in collaborative teamwork
- Application of STEAM in challenging scenarios
- Greater initiative, responsibility and leadership through influence
- Curiosity and imagination
- Pursuit of personal values and long-term goals



CASE Special Advisor - Ms Nicole Stott

NASA Astronaut, Aquanaut, Engineer, and now Artist and SciArt advocate.

Nicole is a veteran of two space flights and 104 days working in space on both the ISS and Space Shuttle. Nicole, 'The Artistic Astronaut', is the first person to ever paint a watercolour in space. Nicole is also a Special Advisor to the CASE Space School program.



Program Summary

Eligible Year Levels

Years 8, 9, 10

Dates

July and December

Locations

Huntsville, Alabama

Houston, Texas

International Certificates

CASE Space School International Study Program

US Space and Rocket Center

Important information

Program cost: Includes tuition fees, admission to program events and venues, ground transport, accommodation and 3 meals per day.

Travel costs: These are indicative and include international and domestic airfares and insurance.

Houston accommodation: Students share 2-3 per room in a 4-star business-style hotel.

Huntsville accommodation: Dormitory style secure facility.

Medical arrangements: On-site nurses available 24 hours a day; doctor and emergency treatment available at the nearby Houston Medical Center.

International Academic Credentials

CASE Space School International Study Program is the only leading STEAM experiential learning program with University of California (UC) approval and Western Association of Schools and Colleges (WASC) accreditation. As a UC approved College Preparatory course, CASE Senior Space School gives students a distinct advantage when applying to universities, both internationally and domestically.



The **California Association for STEAM Education (CASE)** is a non-profit organisation head-quartered in Cupertino, California. Established by educators, industry leaders, and entrepreneurs, CASE advocates excellence in STEAM education worldwide through the development and implementation of innovative in-classroom curriculum and extra-curricular education programs.



Actura New Zealand,
Level 4, 17 Albert Street
Auckland CBD 1010
New Zealand

Tel: 0800 118 911
Email: enquiries@actura.co.nz
Website: actura.co.nz