

Continue at the International Space University?

The International Space University (ISU) provides graduate-level training to the future leaders of the emerging global space community at its Central Campus in Strasbourg, France, and at locations around the world. In its two-month Summer Session and one-year Masters program, ISU offers its students a unique Core Curriculum covering all disciplines related to space programs and enterprises – space science, space engineering, systems engineering, space policy and law, business and management, and space and society. Both programs also involve an intense student research Team Project providing international graduate students and young space professionals the opportunity to solve complex problems together in an intercultural environment.

The ISU mission

The International Space University develops the future leaders of the world space community by providing interdisciplinary educational programs to students and space professionals in an international, intercultural environment.

ISU also serves as a neutral international forum for the exchange of knowledge and ideas on challenging issues related to space and space applications.

ISU programs impart critical skills essential to future space initiatives in the public and private sectors while they:

- inspire enthusiasm
- promote international understanding and cooperation
- foster an interactive global network of students, teachers and alumni
- encourage the innovative development of space for peaceful purposes: to improve life on Earth and advance humanity into space.



The 3 “I”s

Building on specialist knowledge already acquired, ISU relates this to all aspects influencing the successful outcome of space development and use.

The ISU programs are meant to be:

Interdisciplinary

Broad-based educational programs that encompass all disciplines relevant to space—scientific, engineering, economic, regulatory, political and organizational—provide students with a multi-dimensional perspective, vital for understanding and effectively dealing with complex space development and utilization issues.

International

Global networking opportunities and intensive teamwork practices at ISU, give its diverse student body the edge when performing in competitive and collaborative international space programs.

Intercultural

Interacting with people from a variety of different backgrounds: academic, cultural and national, with varied approaches to problem solving and occasionally conflicting objectives, prepares ISU students for the multicultural environment of today’s world space community.

*Laying basis for management of large space projects at ISU.
Photo: Nordicspace*

M.Sc. in Space Studies and Master of Space Management

ISU Campus, Strasbourg, France

ISU's Master of Space Studies and the Master of Space Management program are designed for students, researchers, and professionals interested in beginning a career in the space sector or improving their position within it.

Both studies are designed to give students a competitive edge by:

- Broadening knowledge of space-related issues and activities
- Developing the skills necessary for working effectively with colleagues from a diverse range of disciplines and cultures
- Placing students at the heart of the industry through contact with space professionals
- Putting to use acquired knowledge and skills through practical, hands-on experience

Summer Session Programmes

ISU offers every year summer courses to give students possibilities to get introduction in several space related themes as can make basis for further studies within different areas. The course for this year is now running, but for the next summer the possibilities are there.

SSP in 2005: Vancouver, Canada from 22 June to 24 August

The [University of British Columbia \(UBC\)](#)

is one of Canada's leading universities and has an international reputation for excellence in advanced research and learning. It is involved in space-related research and technology through projects such as the MOST micro-satellite and liquid-mirror telescope development.

SSP 2005 Team Projects topics are:

- Threats from Near Earth Objects ("TP NEOs")
- Robotic Exploration of the Inner Solar System ("TP Robotics")
- Wildfire Mitigation Strategies using Space Technologies ("TP Fire")

SSP in 2006: Strasbourg, France from 1 July to 2 September

Team Project topics for SSP 06:

A Big Revolution on a Tiny Scale - Nanotechnology

How can space profit from nanotechnology and how can the emerging nanotechnology industry profit from space? Current research in the universe of the "very small" aims to create devices that are as small as 100 nanometers. A nanometer is about one ten-thousandth the diameter of a human hair. Nanotechnology has tremendous potential to address many challenges to reducing the cost of access

to space. New materials such as carbon nanotubes provide mass and strength values that are unmatched by existing materials. The possibilities range from smarter surfaces for spacecraft thermal control to a swarm of microrobots or satellites working together. In order to use the full potential of nano, a cheaper way of launching is also necessary. In addition to nanotechnologies, the recent advances in hybrid motors, improved understanding and computational techniques could also enable the development of innovative launching technologies such as air-launch from almost anywhere using the existing infrastructure. This team project will take an interdisciplinary approach to explore the new technologies with a specific focus on nanotechnology and innovative launching techniques to make access to space more affordable, safer and available to a larger public.

Artificial Environments & Artificial Life from Space for Earth."

Few purely "natural" environments and life exist on Earth, and every day more processes, once automatic and natural, are being substantially modified by human action. Space researchers are working to create artificial environments that support aerobic life and intelligence in space and to design anaerobic artificial life and intelligence that can thrive in the various environments of space. This team project will determine if and how this research might help humans learn how to develop viable and sustainable artificial intelligence, life, environments, and habitats on Earth. It will also determine how research on artificial space environments might help humans respond to Earth's increasing artificiality. It is intended to be a practical project that shows how space research can be useful to Earth.

- A third topic will be offered based on the latest developments in the space sector and on interest from ISU partner organizations.

Introductory space courses in ISU campus

The International Space University (ISU) is once again offering its widely popular one-week introductory space course.

The course, taught in English, provides an overview of space and of space-related subjects for professionals of diverse backgrounds, including marketing, finance, law, and contracts management. Providing them with a better understanding of space technology and business, professionals leave with the knowledge and skills that will enable them to communicate more effectively with their technical colleagues. The course also provides its participants with exposure to a unique interdisciplinary, international and intercultural learning environment.

