

**International  
Space University**


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ISU specializes in the education of postgraduates and professionals to prepare them for work in an exciting, progressive sector – space! Future leaders and influential thinkers need new skills and a global perspective to prepare them to meet the challenges of a constantly evolving world.

Located in Strasbourg, France, ISU provides an incomparable opportunity for an international and interdisciplinary education, with students and teachers from all around the world with experience in many fields related to the space sector, both technical – physical and life sciences, technology and engineering, applications, medicine – and non-technical - law, economics, humanities, art, policy, philosophy, history.




*"Attending ISU has been, for me, the ultimate eye-opening experience. Attending the Master of Space Studies allowed me to pursue my personal interests with a limit determined only by my imagination. I found myself working on very exciting projects with talented and knowledge-thirsty colleagues"*  
Diego Urbina, MSS09



*"The Boeing Company is a strong supporter of ISU's concept of international, interdisciplinary and intercultural education for those involved in the space industry and as a result a number of ISU alumni are currently working at Boeing"*  
> The Late Michael Mott, Former Vice President and General Manager, The Boeing Company



*"Opening ourselves to the global space community, JAXA is pleased to support the ISU programs and research activities in order to take advantage of this complementary global aspect"*  
> Prof. Yasunori MATOGAWA, Associate Executive Director, Japan Aerospace Exploration Agency (JAXA)



*"Because we believe that attendance at ISU is an exceptional learning experience for future space leaders we are pleased to sponsor the annual SES scholarship."*  
> Romain Bausch, Chairman of the Board of Directors, SES




*"ISU provides a thorough understanding of space and its interrelated fields while offering a unique international, intercultural and interdisciplinary learning atmosphere. ISU educates our future leaders in space, thus creating knowledge for tomorrow."*  
> Prof. Dr.-Ing. Johann-Dietrich Wörner, Chairman of the Executive Board, Deutsches Zentrum für Luft- und Raumfahrt (DLR)



*"A journey of a thousand miles starts with a single step" I am glad that I stepped into ISU that helped me mold my career and I foresee a promising future.*  
Sindhu Emmanuel, MSS10



*"CNES is a strong supporter of ISU and provides scholarships for participants, finances a chair at ISU and encourages its experts to participate as lecturers. Moreover, the ISU programs provide a unique opportunity to demonstrate the rich experience of the French space sector to the other participants from all over the world."*  
> Jean-Yves Le Gall, President, CNES



*"Studying with ISU is a rich and powerful experience. Meeting professionals from different areas of the Space Industry and with various backgrounds is as much enlightening as following the lectures of the charismatic ISU experts. I never before learned as much in such a short period of time."*  
Katharina Deil, SES Astra, Luxembourg

- Becoming an ISU student means:**
- Broadening knowledge in the exciting, progressive field of space
  - Developing skills in international team working, team building and management
  - Integrating into an international professional network



**ADMISSION  
INFORMATION**

## CURRICULUM

### MSS YEAR 1 Core and Practice Module Aims

#### M1-ITS (10 ECTS) : Introduction To Space

1. To introduce students to the fundamental MSS disciplines and build a firm foundation for interdisciplinary study in subsequent modules.
2. To develop students' transferable skills, including intercultural awareness, time management, team working, written communication and oral presentations.

#### M2-ISS (20 ECTS) : Interdisciplinary Space Studies

1. To extend students' knowledge of the MSS disciplines and enhance their understanding of the interdisciplinary links between them.
2. To demonstrate the integrated and interdisciplinary nature of space activities.

#### M3-TPR (12 ECTS) : 3I Team Project

1. To provide students with experience in interdisciplinary, intercultural and international (3I) teamwork.
2. To develop in students the relevant skills (e.g., research, problem-solving, design, communication, organizational and project management) required to perform a significant 3I project in a 3I team environment.
3. To allow students to engage with and apply principles learned elsewhere in the course and apply them in a 3I context.

#### M4-IPR (12 ECTS) : Individual Project

1. To provide students with experience of performing a significant individual piece of investigative work characterized by a requirement for independent initiative, self-organisation and critical thinking.

2. To develop in students a professional level of communication (orally, graphically and in writing).
3. To encourage students to explore the current limits of knowledge and demonstrate originality and creativity.

#### Elective modules (3 ECTS each)

Elective modules are shorter, optional, taught modules designed to deliver academic program content. They are narrower and more discipline-focused than core modules. Students must take two elective modules.

#### M5-INT (15 ECTS) : Internship

1. To allow students to apply their knowledge and skills to on-going activity in a real-world space context.
2. To provide students with the opportunity to establish professional links within the global space community.

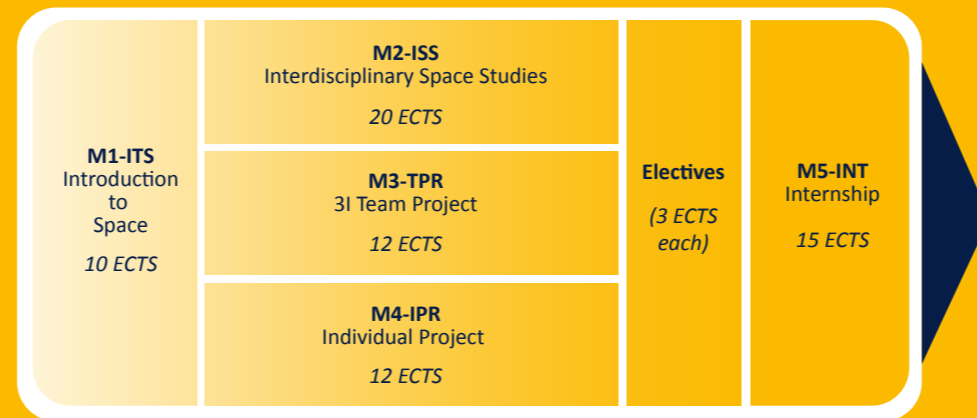
#### List of electives modules:

Space Propulsion, Satellite Communications, Space Neuroscience, Space Systems Engineering and Design, Astrobiology, Earned Value Methods, International Space Negotiation, New Space and Entrepreneurship  
**Not all elective modules will necessarily be offered/run each academic year.**

# MSS

## Master of Space Studies Program

## SCHEDULE



The five modules may be completed on a full-time basis from September to September, or on a part-time basis (the modular option), completing one or more modules per year during a maximum period of seven years. If the modular option is chosen, Modules 1 and 2 must be successfully completed first; Modules 3, 4, 5 and 6 may subsequently be

completed in any sequence. Students who are accepted for admission to the Master and have successfully completed the ISU Space Studies Program (SSP) finishing in the top 50% of their SSP class, may join the program at the start of Module 2 provided their SSP falls within the seven year maximum period allowed to complete the MSS.

(Optional)

MSS YEAR 2 consists of a single module:

#### M14-THP (45 ECTS) : Thesis Project

M14-THP is an extended research project performed either at ISU or at one of its global space partners. It is optional and selective. Eligibility for M14-THP is assessed during Year 1.



## CURRICULUM

### Core Lecturer Series

- (3 weeks)
- Provides participants with an introduction to the fundamentals of all disciplines relevant to space programs

### Team Projects

- (3 weeks)
- Challenge a team of thirty to forty participants to cooperatively produce the conceptual design of an international space project
  - Encourage real-world problem-solving in an international, intercultural context

### Workshops

- Facilitate interaction among participants through the exchange of knowledge and ideas, as well as through engagement in hands-on activities

### Departmental Activities

- (3 weeks)
- Enable more in-depth, focused debate and discussion, as well as additional hands-on activities. Each participant chooses one of the following departments:
- Space Management and Business, Human Performance in Space, Space Policy, Economics & Law, Space Physical Science, Space Application, Space Engineering, Space Humanities.

### Individual or Team Assignments

- Provide an opportunity to exercise independent or small-group work skills — within a department — on an oral presentation or paper

### Theme Days

- World-renown space experts engage participants in interdisciplinary presentations and interactive discussions addressing current topics of significance to the space sector

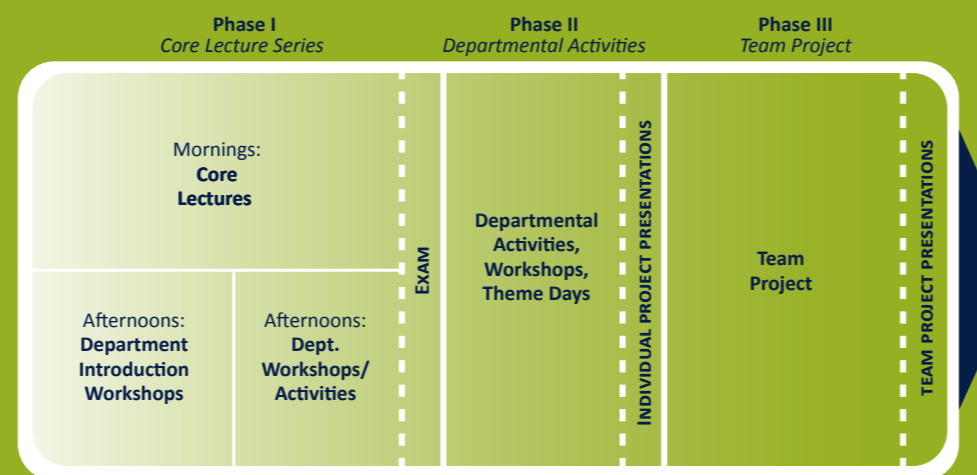
### Distinguished Lecturer Series

- International experts speak on contemporary space sector issues (presented on occasion, in panel format)

# SSP

## Space Studies Program

## SCHEDULE



## ADMISSION

### ADMISSION REQUIREMENTS

The ISU Admissions Committee assesses applicants to the Master of Space Studies primarily on the basis of their academic and professional qualifications, their achievements, and their proficiency in English.

- Applicants must have a Bachelor's Degree or the equivalent, including 3 years of studies as a minimum, awarded by an accredited university. Information on academic qualification equivalencies may be obtained from the ISU Admissions Office

- Preference is given to applicants holding higher academic degrees and to applicants with professional experience in industry, government agencies or academic institutions.

- Language Requirements  
Courses are carried out exclusively in English, and all applicants to ISU programs must demonstrate that they are sufficiently proficient in English to follow classes and to conduct project work.

### FEES

The tuition fees for the Master of Space Studies are EUR 25,000.

The fees for taking the program in modules also amount to EUR 25,000, but a registration fee of EUR 400 will be charged each time the student registers for a subsequent module or series of modules. Students who choose this option must complete their degree within seven years. The tuition fees for each module are as follows:

Module 1: EUR 5,500  
 Module 2: EUR 7,500  
 Module 3: EUR 3,500  
 Module 4: EUR 3,500  
 Electives: EUR 2,000  
 Module 5: EUR 3,000

MSS year 2: EUR 7,500

## ADMISSION

### ADMISSION REQUIREMENTS

Applicants are assessed on the basis of their academic and professional qualifications and their achievements, as well as on their proficiency in English. The decision on admission is made by the ISU Admissions Committee.

- Applicants must have 3 years of studies as a minimum, awarded by an accredited university. Information on academic qualification equivalencies may be obtained from the ISU Admissions Office

Under exceptional circumstances, appropriate professional experience in fields relevant to the main academic content of SSP could be considered by the Admissions Committee as contributing to achieving the equivalence of the required academic qualification.

- Preference is given to applicants holding higher academic degrees and to applicants with professional experience in industry, government agencies or academic institutions.

- Language Requirements  
Courses are carried out exclusively in English, and all applicants to ISU programs must demonstrate that they are sufficiently proficient in English to follow classes and to conduct project work.

### FEES

The fees for the SSP are EUR 18,000. Payment may also be made in US dollars at the inter-bank exchange rate on the date of payment.

The fee includes tuition, accommodation and meals. Travel to and from the host site and medical insurance are not included.

Participants who successfully complete the SSP and register for the MSS are exempt from module 1 (with validation by the admissions committee) on the condition that they graduate within 7 years of SSP completion.

Tuition fees for these applicants are as follows:  
 Participants who attend the MSS straight after the SSP pay a total tuition fee for the 2 programs of EUR 34,000.

Participants who have completed the SSP in a previous year pay a tuition fee of EUR 19,500 (plus a EUR 400 registration fee) for the MSS.

## FUNDING

The International Space University receives support from industry, agencies and international organizations to assist applicants who are unable to pay the full amount of the fees and are seeking funding assistance through the institution.

This funding is provided to selected applicants, and covers part of the tuition fees, and is paid directly to ISU by the sponsoring organization.

Financial support is granted on the basis of:

- Academic and professional merit
- Demonstrated efforts in personal fundraising
- Demonstrated financial need

To be eligible for such funding, students should send their applications to the ISU Admissions Office no later than the following deadlines. For financial support no extra document is required other than the application form.

### MASTER OF SPACE STUDIES PROGRAM

- Application deadline: 15 March  
MSS applicants who do not require funding through ISU may apply until 30 June.

### SPACE STUDIES PROGRAM

- Application deadline: 31 January  
SSP applicants who do not require funding through ISU may apply until 30 April.

### SPECIFIC SCHOLARSHIP OPPORTUNITIES

Specific scholarship opportunities are available through:

- American Astronautical Society
- CAINS Associates
- Centre National d'Études Spatiales (CNES)
- European Space Agency (ESA)
- INMARSAT
- Japan Aerospace Exploration Agency (JAXA)
- Enterprise Ireland
- UK Space Agency
- Norwegian Space Center
- SES
- Communauté Urbaine de Strasbourg
- Région Alsace

For more information, please visit the ISU website: [www.isunet.edu](http://www.isunet.edu)