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## Minor in Space Technologies

### Registration Form 2024 - 2025

**Deadline to register: end of the first semester of the master program**

**IMPORTANT: you must also register on IS ACADEMIA**

#### STUDENT'S PERSONAL INFORMATION

Last name: .....

First name: .....

SCIPER: .....

E-mail address: .....

Section: .....

Current semester: .....

**I register for the Minor in Space Technologies**

**Date of beginning (semester/year): .....**

**Please email this form to:**

[candice.norhadian@epfl.ch](mailto:candice.norhadian@epfl.ch)

Click on the selected classes to add the total credits selected for the Minor. The total appears on page 2.

Highlighted classes are "space focused" and are highly recommended.

| CODES     | SELECTED CLASSES | COURSES   | LECTURERS                     | PROGRAMS | CREDITS | COMMENTS          | SEMESTER |
|-----------|------------------|---|-------------------------------|----------|---------|-------------------|----------|
| ME-445    |                  | Aerodynamics                                      | Mulleners                     | GM       | 4       |                   | AUTUMN   |
| PHYS-323  |                  | Astrophysique II : physics bases of astrophysics  | Jablonka                      | PH       | 4       |                   | AUTUMN   |
| PHYS-465  |                  | Astrophysics III : galaxy formation and evolution | Hirschmann                    | PH       | 4       |                   | AUTUMN   |
| PHYS-401  |                  | Astrophysics IV : stellar and galactic dynamics   | Revaz                         | PH       | 4       |                   | SPRING   |
| PHYS-402  |                  | Astrophysics V : observational cosmology          | Kneib                         | PH       | 4       |                   | SPRING   |
| ENG-411   |                  | Concurrent Engineering of Space Missions          | Kneib, Udriot                 | EL       | 2       |                   | SPRING   |
| ME-321    |                  | Control systems + TP                              | Jones + Salzmann              | GM       | 4       |                   | AUTUMN   |
| MICRO-315 |                  | Embedded Systems and Robotics                     | Mondada                       | MT       | 6       |                   | SPRING   |
| ME-372    |                  | Finite element method                             | Gallaire                      | GM       | 3       |                   | AUTUMN   |
| ME-373    |                  | Finite element modelling and simulation           | Boujo                         | GM       | 3       | Limit: 120 people | SPRING   |
| ME-341    |                  | Heat and mass transfer                            | Tagliabue                     | GM       | 4       |                   | SPRING   |
| EE-522    |                  | How to design for value for space applications    | Ben Hamida                    | EL       | 2       |                   | SPRING   |
| ENV-540   |                  | Image processing for earth observation            | Tuia                          | SIE      | 4       |                   | AUTUMN   |
| PHY 345   |                  | Introduction à l'astrophysique: les bases         | Kneib                         | PH       | 3       |                   | SPRING   |
| EE-346    |                  | Introduction aux microondes et aux antennes       | Skrivervik                    | EL       | 3       |                   | SPRING   |
| EE-580    |                  | Introduction to the design of space mechanisms    | Feusier                       | EL       | 2       |                   | SPRING   |
| EE-582    |                  | Lessons learned from the space exploration        | Toussaint                     | EL       | 2       |                   | SPRING   |
| MSE-474   |                  | Materials selection                               | Michler J./Siegmann/Vaucher   | MX       | 2       |                   | SPRING   |
| MICRO-428 |                  | Metrology   | Bruschini / Charbon / Fantner | MT       | 3       |                   | SPRING   |

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|-----------|--|--|-------------------------------|-----|----|------------------|------------------|
| MICRO-429 |  | Metrology practicals                               | Bruschini / Charbon / Fantner | MT  | 2  |                  | SPRING           |
| EE-310    |  | Microprogrammed Embedded Systems                   | Atienza                       | EL  | 4  | Limit: 80 people | AUTUMN           |
| MGT-462   |  | New space economy                                  | Roettgen                      | MTE | 3  |                  | AUTUMN           |
| EE-589    |  | Projet in space technologies                       | Misc.                         | EL  | 12 |                  | AUTUMN or SPRING |
| ENV-548   |  | Sensor orientation                                 | Skaloud                       | SIE | 4  |                  | SPRING           |
| EE-584    |  | Spacecraft design & system engineering             | David/Udriot                  | EL  | 5  |                  | AUTUMN           |
| EE-585    |  | Space mission design & operations                  | Kuntzer                       | EL  | 2  |                  | AUTUMN           |
| ENG-510   |  | Space propulsion                                   | Jäger                         | EL  | 3  |                  | SPRING           |
| EE-587    |  | Space sustainability, a multidisciplinary approach | David/Udriot                  | EL  | 2  |                  | SPRING           |
| MSE-485   |  | Tribology  | Mischler S.                   | MX  | 2  |                  | AUTUMN           |

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| <b>Total Credits</b> |  |
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