Mission

Bachelor (3 years)  Master (2 years)  PhD (4 years)
# Bachelor

- **180 ECTS* credits in 3 years**

<table>
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<th>1st year (60)</th>
<th>2nd year (60)</th>
<th>3rd year (60)</th>
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<tr>
<td><strong>Math (29)</strong></td>
<td><strong>Physics (17)</strong></td>
<td><strong>Physics (34)</strong></td>
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<td>Physics (15)</td>
<td><strong>Math (14)</strong></td>
<td>- Electrodynamics (4)</td>
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<td>Numerical methods/Labs (7)</td>
<td>- Nuclear &amp; particle physics (4)</td>
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<td>- Quantum physics (8)</td>
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<td>- Statistical physics (8)</td>
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<td>- Solid state physics (8)</td>
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<td><strong>Computational thinking (10)</strong></td>
<td><strong>Labs/electronics (11)</strong></td>
<td><strong>Labs (16)</strong></td>
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<td><strong>Math. methods (4)</strong></td>
<td><strong>Elective course (6)</strong></td>
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<td><strong>Astrophysics initiation (3)</strong></td>
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<td><strong>Global issues (2)</strong></td>
<td><strong>Social &amp; Human Sciences (4)</strong></td>
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*European Credit Transfer Scale (ECTS). 60 ECTS credits equivalent to 1500–1800 hours of total workload*
- Bachelor

- SPH is in charge of a vast range of physics demonstration experiments (3 technical staff members/800 demos)
Bachelor

- 3rd year – Laboratory work
  (1.5 scientist and 2 technicians)

30 experiments from AFM to nuclear reactor physics

Public poster session

Preparation to the International Physicists’ Tournament

Introduction this Fall to “disciplinary/inter project”

⇒ project management, creativity, lab skills
SPH in figures

- Number of students enrolled in Physics

Graduation day Oct. 2020: 85 Masters
48 Physics, 25 Applied Physics, 12 Nuclear engineering
Outreach

- The Physics Section promotes every year its education curriculum to future EPFL students by presenting physics demonstrations

- EPFL 50th Birthday Open days: Physics shows attracted over 1,000 people

- International Physicists’ Tournament: EPFL winner in 2018 and host in 2019
Education and Research

 the Physics student association “Les Irrotationnels”, with the support of SPH, organizes “meet-together” meetings with prominent Physicists

Prof. von Klitzing – April 2019 – Nobel Prize (1985)

“kilogram: a new definition”

Prof. Amano – October 2019 - Nobel Prize (2014)

“GaN semiconductors for energy”

 foster the interaction with IPHYS’s Labs: topical seminars given by PhD students