Exchange students
EPFL Physics Section
Welcome

Laurent Villard
Exchange Coordinator
Physics Section
Information for new Master students is also given there:

- Jean-Marie Fürbringer, CE100
  - Master of Science in Physics
  - Master of Applied Physics

- Andreas Pautz, Minh Quang Tran, CE101
  - Master of Nuclear Engineering
  - Combined EPFL-ETH-PSI
Contact information

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we are here
Choosing the appropriate courses – information for exchange students

- Your choice of courses must be approved by your home institution.
- Your home institution is responsible to validate your studies here, on the basis of the results obtained.
- The exchange students are submitted to the same rules as “indigenous” students for the exams, scale for marks, resit, etc.
- Our school follows the “Bologna” system: ECTS credits.
- Administratively speaking, exchange students are allowed, in principle, to participate to any course offered on any Bachelor or Master curriculum of any Section. Exceptions: Master in Financial Engineering and Master in Management of Technology.
- Do not forget to register for the courses you will have selected. Deadline: Friday, September 29, for the autumn semester.
- Online registration: is-academia.epfl.ch.
Some useful web pages

- **http://sb.epfl.ch/physics**
  - Education > Bachelor [or Master > MSc Physics] > Study plan …
    - Links to course descriptions (fiche de cours)
      - Both in English and in French
      - Timetable (Reference Week)
  - Consider also other Sections of the School of Basic Sciences (Chemistry, Maths) and other Schools

- **http://sac.epfl.ch** (Registrar’s Office)
  - Student exchanges > Exchange: IN > …
    - Studies > Study Plans & Rulebooks > School of Basic Sciences
    - Course descriptions
    - Academic calendar: http://memento.epfl.ch/academic-calendar/

- **http://is-academia.epfl.ch**
  - registration, timetables, exams, etc.
Laboratory and projects

- Bachelor (3rd year): TP III (Physics, Laboratory Work)
  - Set of advanced experiments covering most of the research fields of physics

- Master: TP IV
  - Research project (1 day /week) in one of the physics research laboratories

- Master Project
  - Full time 1 semester in one of the physics research laboratories

- Info on the various labs in Physics: sb.epfl.ch/physics links under Physics > Research. Also: under Education > Master > TP IV
  - Contact the head of lab or your professor to discuss a possible TP IV project
  - Check with your home supervisor that the proposed project is accepted
Important dates

- Autumn semester courses
  - September 19 – December 22, 2017
  - September 29, 2017, last deadline for course registration (*)

- Exam period for autumn semester courses
  - January 15 – February 3, 2018
  - November 24, 2017: last deadline for exam withdrawal (*)

- Spring semester courses
  - February 19 – June 1, 2018
  - March 2, 2018: last deadline for course registration (*)

- Exam period for spring semester courses
  - June 18 – July 8, 2018
  - May 4, 2018: last deadline for exam withdrawal (*)

- Some branches are marked during the semester

- http://memento.epfl.ch/academic-calendar/

- (*) When you register for a course, you are automatically registered for the exam. If you don't want to sit the exam you have to withdraw from the exam within the indicated deadlines.
Exam rules (valid for ALL students)

- You have 2 attempts per course. If you forget to cancel your registration for an exam, it will count as 1 attempt.
- If you fail, you must resit the exam *one year later during the corresponding exam session* (e.g. 2\textsuperscript{nd} attempt in January 2019 for a 1\textsuperscript{st} attempt in January 2018). It is not possible to redo the exam just after or a few weeks after the 1st attempt.
- For incoming exchange students, this often practically means that you have actually just one attempt...
Master in physics - curriculum

Bloc « Projects et TP » 22 ECTS
- TP IV: semester projects, 1 day/week, in one of Labs of Physics
- Contact now a lab of physics in which you are interested to find a project then register on IS-Academia for the TP IV and indicate the name of your supervisor.
- SHS: Humanities, see [http://cdh.epfl.ch/page-37085-en.html](http://cdh.epfl.ch/page-37085-en.html)

Groupe «Options» 38 ECTS
- Min 20 ECTS in SPH,
  - of which max. 6 ECTS in options SPH of the Bachelor cycle
- Max 12 ECTS in FSB (i.e. Math, Chemistry)
- Max 6 ECTS in other engineering sections

Master thesis (Projet de Master) 30 ECTS

Master in Applied Physics: Internship in industry, 4-6 months, 30 ECTS
Master in physics – curriculum (cont’d)

Mineur (30 ECTS) = Diploma Supplement

In order to develop a speciality the student can choose the program offered in « mineur », with approval of the director of the physics section.

Proposed « mineurs »:

Energy
Contemporary Asian Studies
Technology Management and Entrepreneurship
Biomedical Technologies
Space Technologies
Computational Sciences and Engineering
Institute of Physics @ EPFL

**Group of Physics of Energy and Particles (GPEP)**: 1 centre + 5 labs:
- Plasma Physics Research Center (CRPP);
- Laboratory of Astrophysics (LASTRO);
- Laboratory for Particle Accelerators Physics (LPAP);
- Laboratory for High Energy Physics (LPHE);
- Laboratory for Reactor Physics and Systems Behaviour (LRS)

**Group of Condensed Matter Physics (GCMP)**: 18 labs:
- Quantum Opto-Electronics – LOEQ;
- Advanced Semiconductors for Photonics and Electronics - LASPE;
- Physics of Nanostructures – LPN;
- Photonics and Quantum Measurements – LPQM;
- Nanostructured & Complex Matter – LPMC;
- Electronically Advanced Materials – CREAM;
- Electronic Spectroscopy – LSE;
- Nanostructures at Surfaces – LNS;
- Nanostructured Materials Physics – LPMN;
- Quantum Magnetism – LQM;
- etc.

**Group of Physics of Biological Systems (GPSB)** 6 labs:
- Structural Biology and Biophysics – LBBS;
- Cell Biophysics – LCB;
- Experimental Biophysics – LEB;
- Functional and Metabolic Imaging – LIFMET;
- Physics of Living Matter – LPMV;
- X-ray Physics - LPRX

**Group of Theoretical Physics (GTP)**: several research units:
- condensed matter physics, statistical physics, biophysics, quantum optics, high-energy particle physics and cosmology. Applied tools range from fully analytical methods to high-performance computing.

All the best for your studies at EPFL!