Exchange students
EPFL Physics Section
Welcome

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

- Daniele Mari, CE100
  - Master of Science in Physics
  - Master of Applied Physics
- Horst-Michael Prasser, CE101
  - Master of Nuclear Engineering
  - Combined EPFL-ETH-PSI
Contact information

Service Academique (SAC), Student Exchange Office, BP 1244, myriam.schaffter@epfl.ch, luisa.pizzillo@epfl.ch, coralie.link@epfl.ch

Physics Section (SPH)
valerie.schaererbusinger@epfl.ch
021 693 33 00
PH A2-402

Physics Section Head:
Prof. Nicolas Grandjean
nicolas.grandjean@epfl.ch

laurent.villard@epfl.ch
021 69 34 564
SPC, PPB building, 3rd floor, no.315

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” EPFL 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 27, 2019, for the autumn semester.
- Online registration: is-academia.epfl.ch
Some useful web pages … have disappeared (thanks to new web design)

- [https://sb.epfl.ch/physics](https://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

- [https://sac.epfl.ch/registrar-office](https://sac.epfl.ch/registrar-office)
  - Student exchanges > Exchange: IN > …
    - Studies > Study Plans & Rulebooks > School of Basic Sciences
    - Course descriptions
    - [https://memento.epfl.ch/academic-calendar/?period=365](https://memento.epfl.ch/academic-calendar/?period=365)

- [https://is-academia.epfl.ch](https://is-academia.epfl.ch)
  - registration, timetables, exams, etc.
Some useful web pages

  - > Study plan 2\textsuperscript{nd} and 3\textsuperscript{rd} year

  - > Master of Science in Physics
    - > Study plan master in Physics
    - > Study plan master in Applied Physics

  - Under Bachelor & Master studies:
    - Study plans and regulations
    - Academic Calendar
    - Registering for courses and exams

- https://www.epfl.ch/campus/services/ressources/en/isa/access/
  - This is where you login (Gaspar credentials), register to courses, exams, etc.

- https://memento.epfl.ch/academic-calendar/
  - For important dates
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
  - List can be found there:
  - 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

- Info on the various labs in Physics:
  - [https://www.epfl.ch/schools/sb/research/iphys/research/](https://www.epfl.ch/schools/sb/research/iphys/research/)
Important dates

- Autumn semester courses
  - September 17 – December 20, 2019
  - September 27, 2019, last deadline for course registration (*)

- Exam period for autumn semester courses
  - January 13 – February 1, 2020
  - November 22, 2019: last deadline for exam withdrawal (*)

- Spring semester courses
  - February 17 – May 29, 2020
  - February 28, 2020: last deadline for course registration (*)

- Exam period for spring semester courses
  - June 15 – July 4, 2020
  - May 1, 2020: last deadline for exam withdrawal (*)

- Some branches are marked during the semester

- https://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 2021 for a 1\textsuperscript{st} attempt in January 2020). It is not possible to redo the exam just after or a few weeks after the 1st attempt.
- \textbf{As an exchange student, this practically means that you actually have just one attempt…}

- Exam form is either \textbf{written} or \textbf{oral} during the official exam periods after each semester; or, it can be \textbf{during the semester}. This is indicated on the Course Description, which you can obtain from the study plans, e.g. \url{https://sb.epfl.ch/page-42160-en.html}
- Exam language is also indicated in the course descriptions. Upon written demand, the teacher can allow the student to reply in English even if the exam language is officially French.
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: Specialization work in research laboratory, 1 semester, 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
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!