APPLICATION FORM
Year 2017/2018

Course Selection

For Exchange Students only

SEMESTER 7 (Fall of 2017-2018)

Family Name _____

Given Name _____

Home University _____

Country _____

Please choose one course (choice A and B) per elective series. All courses within a given series are taught simultaneously. Choose at least one foreign language.

We will inform you if any of the courses you select are not available.

Normal course load at CentraleSupélec (Ecole Centrale Paris Engineering Program) is 30 ECTS per semester. Depending on the requirements of your home institution, you may either take the full 30 ECTS load, or choose at least 24 ECTS.

Language of Instruction
The courses at CentraleSupélec are taught in one of four language options, specified as follows:

- **English (E), course entirely taught in English**
- **English or French (EF), there are two classes in parallel, one taught in French, one in English**
- **English on demand (E*), the course is taught entirely in English, unless all students registered for the course have a sufficient command of French, in which case, the professor may choose to teach in French.**
- **French (F), course entirely taught in French**

All courses available in English (E, EF or E*) are highlighted in blue in the rest of this form.

Choose one or more:

- O SE 140   Economics (F)   24h   2.0 ECTS
- O SH 2100   Business Games   30 h   2.0 ECTS
- O WP5100   Innovation Project   110 h   7.0 ECTS

O I do not wish to sign up for a project

☞ **Language course 1**   24 h   2.0 ECTS

- O LC 1000   English
- O   I do not wish to take a Foreign Language course 1

☞**Language course 2** (If you wish to take a second language, please choose a different one from your first

- O LC 2000   French as a Foreign Language (levels B1, B2, C1)
- O LC 3000   German   24 h   2.0 ECTS
- O LC 4000   Spanish
- O LC 5000   Italian
- O LC 6000   Portuguese
- O LC 7000   Chinese
- O LC 8000   Japanese
- O LC 9000   Russian
- O   I do not wish to take a Foreign Language course 2

You can take, at most, one course in each elective series because all courses within a given series are taught simultaneously. However, indicate a choice A and B for each series in case your first choice is not available:

☞ **Elective course 2 (Choose A + B)**   36 h   3.0 ECTS

A B

- O O **PR3101**   **Chemical Engineering & Sustainable Development (P.Puel)(E)**
- O O **IS1220**   **Software Engineering (P.Ballarini)(E)**
- O O **PH2100**   **Waves (H.Dammak) (EF)**
- O O MG1200   Civil Engineering (P.Chassagnette) (F)
- O O MA2630   Distribution & Operator (P.Laffite) (F)
- O O SE1300   Finance d'entreprise avancée (D.Attias) (F)
- O O IS1410   Digital & Collaborative Engineering (P.Morenton) (F)
- O O SH2550   Social Issues (C.Colmellere)(F)
- O   I do not wish to take a course in this elective series

☞ **Elective course 3 (Choose A + B)**   36 h   3.0 ECTS

A B

- O O **MG1300**   **Vibrations & acoustics (P-E.Gautier)(EF)**
- O O **PR5210**   **The Genome (D.Le Roux)(E)**
- O O EN1200   Fluid Mechanics (R.Vicquelin) (F)
- O O MA2300   Advanced Probability (E.Herbin) (F)
- O O IS1230   Database (N.Travers) (F)
- O O SE2400   Introduction to Supply Chain (C.Chu) (F)
- O O SE3300   Création d'entreprise (J-F.Gallouin) (F)
- O   I do not wish to take a course in this elective series

☞ **Elective course 4 (Choose A + B)**   36 h   3.0 ECTS

A B

O O **MA2823**   **Machine Learning (C-A.Azencott) (E)**
O O PR4200   Electrical Energy Networks (Arzande) (F)
O O PR5300   Biotech. Application & modelisation (F.Lopes) (F)
O O MA2100   Financial Risk Modeling (F.Abergel)) (F)
O O MA2610   Scientific Computation (H.Ben Dhia) (F)
O O PH2600   Relativities (N.Besson) (F)
O O MG1400   Plasticity and Fracture: Mechanical Behavior of Material (V.Aubin) (F)
O O SE2200   Innovation Radicale (B.Yannous) (F)
O O SE2300   Strategy and marketing (E.Mounoud) (F)
O O SH2750   Innovation, arts, creativity (C.Colmellere) (F)
O   I do not wish to take a course in this elective series

☞ **Elective course 5 (Choose A + B)**   36 h   3.0 ECTS

A B

O O **EN1110**   **Advanced Heat Transfer (B.Goyeau)(E*)**
O O **MG1600**   **Nano-mechanics (H-L.Hamon) (E*)**
O O **PH2300**   **Solid State Physics, Structure of Matter (P.Cortona) (EF)**
O O MA2200   Advanced Optimization (P-H.Cournède ou J.C. Pesquet (F)
O O IS2120   Control System (C.Vlad) (F)
O O IS1510   Digital Communications and Networks (P.Lecoy) (F)
O O SE1600   Economics 2 (Senousi) (F)
O O SE2920   Management of Complex Projects (F.Marle) (F)
O O SH2650   Science, Technology & Society (C.Colmellere) (F)
O   I do not wish to take a course in this elective series

☞ **Elective course 6 (Choose A + B)**   36 h   3.0 ECTS

A B

O O **EN2910**   **Aircraft Design (P.Breyne) (E)**
O O **PH2200**   **Synchrotron (P-E. Janolin) (E*)**
O O **SH2300**   **Seminar Series: Individus Travail Org (C.Colmellere) (EF)**
O O **SH2400**   **Seminar Series: International and Intercultural (C.Colmellere) (EF)**
O O MG1700   Design System Surveillance (A.Barbarulo) (F)
O O EN2940   Electric aircraft (C.Devaux) (F)
O O SE2350   Towards energy autonomy (F.Cluzel) (F)
O O MA2815   Maths for Biology (V.Letort) (F)
O O PH2250   Réacteur Nuclaires embarqués (F) (French Passport required)
O O SH2500   Perspective on key Social Issues-Enjeux de société ?(C.Colmellere) (F)
O O SH2600   Science, Technology & Society (C.Colmellere) (F)
O O SH2700   Innovation, art and Creativity (C.Colmellere) (F)
O O PH2260   Laser à Cascades quantiques (Th.Antoni) (F)
O   I do not wish to take a course in this elective series

Total the number of ECTS you intend to take in Semester 7 =   ……………………..

Choice of electives must be send by mail to:

marisol.verstraete@centralesupelec.fr