



COURSE SELECTION

APPLICATION FORM

Year 2016/2017

For Exchange Students only

Send this form to: **Marisol VERSTRAETE** – marisol.verstraete@centralesupelec.fr

Semester 8: February to June 2016

Family Name _____
Given Name _____
Home Institution _____
Country _____

Please select the courses you wish to take by checking the appropriate boxes or buttons in the following pages.

In order to help you sign up for the most appropriate courses for your requirements, you are asked to choose two elective courses by block, **a choice A and a choice B**.

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

Please select one course per elective series, and at least one foreign language.

Normal course load at Ecole CentraleSupélec

The normal course load 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 Ecole CentraleSupélec are taught in one of four language options, specified as follows:

- French (F), course entirely taught in French
- 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.

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

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Course code and title	Hours	ECTS
☞ Humanities and Social Sciences. Choose one module among the following series <input type="radio"/> SH3200 Seminar Series: individuals, labor, organizations (EF) <input type="radio"/> SH3400 Seminar Series: International and Intercultural (EF) <input type="radio"/> SH3300 Science, Technology, Society <input type="radio"/> SH3500 Seminar series: Perspective on Key Social Issues <input type="radio"/> SH3600 Innovation, Arts and Creativity <input type="radio"/> I do not wish to take an HSS module	32 hrs	2.0
☞ Project. Choose among: <input type="radio"/> WP 5200 Innovation Project S8 <input type="radio"/> WP 6200 Student Organization Project S8 <input type="radio"/> I do not wish to do a project	150 hrs	9.0
☞ Language course 1 <input type="radio"/> LC 1000 English as a Foreign Language <input type="radio"/> I do not wish to take Foreign Language course 1	24 hrs	2.0
☞ Language course 2 <input type="radio"/> LC 2000 French as a Foreign Language <input type="radio"/> I do not wish to take Foreign Language course 2	24 hrs	2.0
<p><u>Only if you are fluent in both English and French,</u> you may choose one of the following languages, but not unless you have already had two semesters of study of the chosen language before your arrival at Ecole Centrale.</p> <input type="radio"/> LC 3000 German <input type="radio"/> LC 4000 Spanish <input type="radio"/> LC 5000 Italian <input type="radio"/> LC 6000 Portuguese <input type="radio"/> LC 7000 Chinese <input type="radio"/> LC 8000 Japanese <input type="radio"/> LC 9000 Russian <input type="radio"/> I do not wish to take Foreign Language course 2		

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To complete the normal S8 course load, select courses for Elective series (8-13). You can take at most one course (+one more if you cannot get the first choice) in each elective series because all courses within a given series are taught simultaneously.

- ☞ **Elective course 8 (Choose A + B)** 36 hrs 3.0
- EN1200/1201 Fluid Mechanics (EF)
 - IS1220 Software engineering (E)
 - PR1100 Introduction to Materials (E*)
 - PH2814 Science-Fiction and Physics (E*)
 - SE2500 Stock Management (E)
 - MA2822 Advanced Statistics
 - MG1200 Civil Engineering
 - IS1310 Graph Theory for Computer Science: Algorithms and Applications
 - PR3100 Chemical Engineering & Sustainable Development
 - SE2750 Stochastic Modeling and Theory of Queues and their Applications
 - WP2100 Sustainable Development and Technologies
- I do not wish to take a course in this elective series

- ☞ **Elective course 9 (Choose A + B) or Lab courses (Choose A + B)** 36 hrs 3.0
- EN1500 Nuclear Engineering (E*)
 - SE2550 Intro to Purchasing (E*)
 - IS1240 High Performance Computing for Engineering and Finance (E*)
 - PH2813 Advanced Materials and Novel Devices for Information Technologies (E*)
 - SE1500 Enterprise Modeling
 - IS1330 Informatique théorique:calculabilité et langages formels
 - MA2824 Differential Geometry
 - MG2814 Economy and Design of Dams
- I do not wish to take a course in this elective series

OR Lab. Courses which are normally offered in S6, but also open to S8 students

- PH 1910 Physics Lab (EF) 30hrs 2.0.
 - PR 2940 Chemical & Environmental Engineering Lab. (EF)
 - EN 1920 Aerodynamics & Energy Science Lab. (EF)
 - SE 1950 Reverse Engineering & Rapid Prototyping Lab. (EF)
 - IS 2950 Electronics Lab. (EF)
 - MG 1960 Civil Engineering Lab.
 - MG 1970 Design of Mechanical Structures Lab
 - PR 1920 New technologies Lab.
 - PR 1930 Materials & Corrosion Lab
- I do not wish to take a course in this elective series

- ☞ **Elective course 10 (Choose A + B)** 36 hrs 3.0
- PH2812 Introduction to Atomic and Molecular Physics (E*)
 - MA2814 Introduction to Random Modeling (E)
 - PR4300 Cogeneration and Energy Production (E*)
 - EN1700 Introduction to Neutronics & Nuclear Reactor Physics
 - MA2620 Ordinary Differential Equations and Dynamic Systems
 - MG2816 Micro-Electro-Mechanical Systems (MEMS)
 - MG2815 Mise en forme des Sols
 - SE2700 Modeling for Decision Making
 - SE3200 Law 2
- I do not wish to take a course in this elective series

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- ☛ **Elective course 11 (Choose A + B)** 36 hrs 3.0
- EN1800 Numerical Methods in Engineering applications (E*)
 - PH2500 A Crash Course in Modern Mathematical Physics (E)
 - SE2650 Risk Assessment and Management (E)
 - IS1250 Prog for mobile devices (E)
 - EN1600 Renewable Energy
 - MG2812 Introduction to Acoustics: Industrial and Musical Acoustics
 - MA2825 Algebra and cryptology
 - MG1500 BioMécanique
 - I do not wish to take a course in this elective series
- ☛ **Elective course 12 (Choose A + B)** 36 hrs 3.0
- EN1120 Heat Transfer (E)
 - MG2817 Applications of the Finite Element Method (E)
 - PH2821 Applications of statistical physics to socio-economical complex systems (E)
 - SE2800 Production Planning and Scheduling (E*)
 - MA2827 Foundations of discrete optimization (E)
 - IS1350 Mathematical Logic for computer sciences
 - PH2820 Optoelectronic Technologies
 - I do not wish to take a course in this elective series
- ☛ **Elective course 13a Week 1** 36 hrs 3.0
- MG2920 Sustainable Buildings & Architecture Laboratory
(if you take MG2920 at week 1, you must not take it at week 2)
- ☛ **Elective course 13b Week 2 (Choose A + B)** 36 hrs 3.0
- EN2910 Aircraft Design (E)
 - MG2818 Introduction to Petroleum Exploration and Production (E)
 - IS2960 Electronics Laboratory (F)
 - WL2100 Leadership in Project (E)
 - WL2200 Ethics and Responsibility in Engineering
 - EN2930 Powertrain Design
 - MG2920 Sustainable Buildings & Architecture Laboratory
(if you take MG2920 at week 2, you must not take it at week 1)
 - PH2930 Nuclear Physics Laboratory (French Passport required)
 - I do not wish to take a course in this elective series

Total number of ECTS credits you intend to take in Semester 8: _____

Exchange students will be informed on the availability of their chosen course program once they are admitted.

Send this form to: Marisol VERSTRAETE – marisol.verstraete@centralesupelec.fr

Important dates:
Arrival on Campus: January 25, 2016
Compulsory Orientation Days: January 25 to 29, 2016
First day of Academic semester: February 1, 2016