

INTERNATIONAL EXCHANGE PROGRAM

X-USA

ACADEMIC YEAR 2008/2009

ÉCOLE POLYTECHNIQUE
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 International Exchange Program
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Program	<p><u>X*-USA Exchanges</u></p> <p>constitute one part of the International Exchange Program and concern students coming from top American universities which agree to validate the academic results achieved in the frame of a study abroad mobility.</p> <p>This program offers selected students in Science and in Engineering the opportunity to come to Ecole Polytechnique from 3 months up to a full academic year to take courses offered in the “Ingénieur Polytechnicien” Program or to do a research internship in a laboratory.</p> <p><i>* “X” is the other name given to Ecole Polytechnique. Its students are called “polytechniciens” and also “X” for young men and “Xette” for young women.</i></p>
Homepage	<p>http://www.polytechnique.edu</p> <p>(Academics / International Exchange Program)</p>
Application requirements	<p>This program is open to international students in Science and Engineering under 26 years of age who have:</p> <ul style="list-style-type: none"> - Completed two to three years of university studies (junior, senior and graduate students) - Excellent academic results in Science (Mathematics plays a key unifying role in all the fields of study) - A good knowledge of the French language
Application and Admissions	<p><u>Application deadlines:</u></p> <ul style="list-style-type: none"> - <u>Main applications:</u> February 29th, 2008 for admissions in September 2008 and January 2009. - <u>Additional applications:</u> A second jury can evaluate late applications (EXCEPT for the classes in Economics) for admission in January 2009. The application materials must be received before October 31st, 2008. <p>We strongly encourage all applicants to meet the main application deadline.</p>

	<p><u>The application materials must contain:</u></p> <ul style="list-style-type: none"> - The application form - The learning proposal - A resume - A description of the courses taken in the home university in two distinct parts: <ul style="list-style-type: none"> ➤ <u>1st part</u>: courses taken in Mathematics and in the fields the student is applying for ➤ <u>2nd part</u>: courses taken in all the other scientific fields ➤ Applicants are required to mention the courses they will be attending until the end of the academic year and to list the reference of the main textbooks (author and title) used for all the described classes ➤ This part will also include a description of the grading system of the university - A certificate from a French teacher confirming the student's oral and written level - Letters of recommendation from two professors - Official transcripts of records including all university-level courses - A letter of statement in French <p><u>Final admission</u> into the program is confirmed in June 2008 for main applications and in November 2008 for late applications.</p>
<p>Academic program</p>	<p>Students apply to courses for which they have the appropriate preparation and background. The courses offered are those of the "Ingénieur Polytechnicien" program. Students can choose:</p> <ul style="list-style-type: none"> - Either the courses of the <u>Year 2 "General Education"</u>: a period divided into two semesters. Each semester is composed of <i>long</i> and <i>short courses</i>. Our regular students have the obligation of studying six different fields over the entire year. This rule does not apply to International Exchange students who must attend, at least, one long course and two short courses per semester. - Or the courses of the <u>Year 3 "Specialized Education"</u>: a period divided into three terms: the 1st term and the 2nd term are devoted to classes: exchange students must at least attend 3 courses of one "Programme d'Approfondissement (PA)"; the 3rd term is an Advanced Research Project. - Students can also apply for a <u>Research internship</u> carried out in one of the 21 laboratories of Ecole Polytechnique <p><u>Fields of study</u></p> <p>Mathematics, Applied Mathematics, Physics, Applied Physics, Electrical Engineering, Computer Science, Mechanics / Mechanical Engineering, Biology, Chemistry, Economics</p>

<p>Course Catalogue</p>	<p>The full list of courses for 2008/2009 is available on-line at: http://catalogue.polytechnique.fr/programme.php?id=126</p> <p>- Year 2 of the curriculum</p> <p><u>First Semester</u> http://catalogue.polytechnique.fr/programme.php?id=140</p> <p><u>Second Semester</u> http://catalogue.polytechnique.fr/programme.php?id=142</p> <p>- Year 3 of the curriculum</p> <p>http://catalogue.polytechnique.fr/programme.php?id=146</p> <p>No major changes should occur for 2008/2009. Any modifications will be definitely confirmed by July 2008.</p>
<p>Terms</p>	<p><u>Expected term dates for academic year 2008/2009</u></p> <p><i>Year 2 of the curriculum:</i></p> <p><u>First Semester:</u></p> <ul style="list-style-type: none"> - Long courses: from end of August 2008 to end of January 2009 - Short courses (first period): from end of August 2008 until end of October 2008 - Short courses (second period): from beginning of November 2008 until end of January 2009 <p><u>Second Semester:</u></p> <ul style="list-style-type: none"> - Long courses: from end of January 2009 to mid-July 2009 - Short courses (first period): from end of January 2009 until mid-April 2009 - Short courses (second period): from end of April 2009 until end of June 2009 <p><i>Year 3 of the curriculum:</i></p> <p><u>1st term</u> (Fall): from end of September 2008 to Mid-December 2008</p> <p><u>2nd term</u> (Spring): from beginning of January 2009 to beginning of April 2009</p> <p><u>3rd term</u> (Summer): from beginning of April 2009 to mid-July 2009</p> <p><i>Research internship:</i></p> <p>Anytime during the academic year 2008/2009 for a minimum duration of three months.</p>

<p>ECTS Credits</p>	<p><u>Each scientific course is credited with ECTS**</u> (European Credit Transfer System).</p> <p>Credits are awarded when the course has been completed and all required examinations have been passed. In the case of a research internship, credits are given on the base of its duration.</p> <p>A minimum of courses must be followed so that the total of ECTS reaches at least:</p> <p><u>Year 2</u> :</p> <ul style="list-style-type: none"> - 20 ECTS credits for a semester, that is at least one long course and two short courses (one for each period) - 40 ECTS credits for a full academic year <p><u>Year 3</u> :</p> <ul style="list-style-type: none"> - 15 ECTS credits for a term, that is at least 3 courses of one “Programme d’Approfondissement (PA)” - 30 ECTS credits for 2 terms - 45 ECTS credits for a full academic year <p>** <i>More information is available on ECTS at:</i> http://europa.eu.int/comm/education/programmes/socrates/ects_en.html</p>
<p>Language of teaching</p>	<p><u>French</u></p> <p>All the courses and exams take place in French. A good command of the language is compulsory.</p>
<p>French courses</p>	<p>French courses are given from October until June. They take place once a week and last 2 hours. They are taught at different levels; a placement test takes place in the very first days after the students’ arrival. They are compulsory (1 ECTS / term).</p>
<p>Optional courses</p>	<p>Exchange students can take optional courses in the Humanities and Social Sciences. The courses and seminars offer a rich diversity of subjects: Philosophy, Literature, History, Political Science, Arts and so on... Many of those courses require a very good command of the French language.</p> <p>Students can also study a foreign language in addition to French courses. Admission into these courses is decided upon the students’ arrival and is submitted to the Department’s Head for approval.</p>
<p>Sport</p>	<p>Sport complements the scientific program and is part of the “Polytechnicien”’s education. Indoor and outdoor facilities enable the practice of 16 sports on the basis of 6 hours per week. Exchange students are highly encouraged to take part in those activities for a perfect integration in the life of the Ecole.</p>
<p>Grading system</p>	<p>All the courses are exclusively evaluated with letters:</p> <p>A: with very high honors B: with high honors C: with honors D: passing E: conditional failure F: failure</p>

<p>Welcome day</p>	<p>Takes place a few days before the courses start. It includes</p> <ul style="list-style-type: none"> - A visit of the school - Registration procedure (access badge, access to the computer rooms and to a personal e-mail account) - A welcome meeting with the regular students of the school
<p>Accommodation</p>	<p>All International Exchange students are accommodated on the main campus. In October 2007, the monthly rent for the room is 122 euros.</p>
<p>Meals</p>	<p>Students have their meals on campus. The restaurant is open all year round and serves three meals a day. The price of a meal is between 4 and 6 euros.</p>
<p>Health Insurance</p>	<p><u>Health Insurance</u> is compulsory in France:</p> <p>Students may remain affiliated to their own insurance company.</p> <p>A written statement from the foreign insurance company must give the full details on the extent and the amount of the coverage. This statement must also show the “civil liability” coverage.</p> <p>If students fail to show any insurance coverage, they will have to purchase one upon their arrival in France.</p> <p>Cost in 2007: about 45 euros per month.</p> <p><u>Compulsory vaccinations:</u></p> <p>Before their arrival in France, students must be vaccinated for :</p> <ul style="list-style-type: none"> - DT-Polio (Diphtheria-Tetanus-Poliomyelitis): the injection must have to be done less than 10 years ago. - Test of the BCG (Bacillus Calmette-Guérin, Tuberculosis prevention): the intradermal reaction must not be older than 6 months.
<p>Entry regulation</p>	<p>Non-EU Students must apply for a student visa before their arrival in France at the French Embassies/Consulates in their home country.</p> <p>The documents to be shown are provided by Ecole Polytechnique.</p> <p>Once the admission is confirmed, the International Office of the Ecole sends, by postal mail, a statement confirming:</p> <ul style="list-style-type: none"> - The admission into the program - The amount of the scholarship granted by the Ecole when applicable. Otherwise, students will have to show a personal bank statement - Housing
<p>Budget</p>	<p>The following budget per month is given for information:</p> <ul style="list-style-type: none"> - Accommodation : 122 euros - Meals : 260 euros - Insurance : 45 euros - Books and tuition : Free - Personal expenses : at least 200 euros (depends on personal needs and habits)

YEAR 2
General Education

Requirements for Exchange students: minimum of ECTS credits in the scientific courses:

- 20 ECTS for a semester (at least, one long course and two short courses)
- 40 ECTS for a full year.

Fall semester Long courses (18 blocs, 72 h of teaching, 10 ECTS)		Spring semester Long courses (18 blocs, 72 h of teaching, 10 ECTS)	
Economics (<i>ECO 431</i>)		Computer Sciences (<i>INF 431</i>)	
Mathematics (<i>MAT 431</i>)		Applied Mathematics (<i>MAP 431</i>)	
Mechanics (<i>MEC 431</i>)		Physics (<i>PHY 432</i>)	
Chemistry (<i>CHI 431</i>)		Biology (<i>BIO 451</i>)	
Short courses (9 blocs, 36 h of teaching, 5 ECTS)		Short courses (9 blocs, 36 h of teaching, 5 ECTS)	
Mathematics (<i>MAT 432</i>)	Physics (<i>PHY 431</i>)	Mathematics (<i>MAT 451</i>)	Mathematics (<i>MAT 452</i>)
Chemistry (<i>CHI 411</i>)	Biology (<i>BIO 431</i>)	Fluid Mechanics (<i>MEC 432</i>)	Mechanics (<i>MEC 433 /434</i>)
Computer Sciences (<i>INF 421</i>)	Computer Sciences (<i>INF 421</i>)	Statistics (<i>MAP 433</i>)	Applied Mathematics (<i>MAP 411</i>)
Economics (<i>ECO 432</i>)	Probability (<i>MAP 432</i>)	Modex (Experimental work in Biology, Chemistry, Computer Science Mechanics, Physics, Electronics)	Modex (Experimental work in Biology, Chemistry, Computer Science, Mechanics, Physics, Electronics)
Optional : - Humanities & Social Sciences: courses, seminars - Foreign languages (other than French) - Sport - Scientific Research Team Project (5 ECTS)			

Please select the courses within this frame.

YEAR 3
Specialized Education

Requirements for Exchange students: minimum of ECTS credits in the scientific fields:

- 15 ECTS for a term (at least, three courses in the same “Programme d’Approfondissement (PA)”)
- 30 ECTS for two terms
- 45 ECTS for a full year

Programme d’Approfondissement (PA) (36 blocs, 144 h of teaching, 20 ECTS)
Biology
Chemistry at the Frontiers
Eco-Sciences
Economics
Computer Science
Complex Industrial System Engineering
Applied Mathematics for Finance and Ecological Systems
Technological Innovation
Mathematics
Mechanics and Physics for the Environment
Advanced Modeling in Mechanics
Optimization, Communication, Signal
Physics
Quantitative Economics and Finance
Engineering, Simulation and Modeling
From Semiconductors to Computer Systems

Please do not select courses from different “Programmes d’Approfondissement (PA)” because of time schedule incompatibility .

Optional courses for Exchange students
<ul style="list-style-type: none"> • Humanities & Social Sciences: courses, seminars • Foreign language (other than French) • Sport

3rd Term (Summer) - Advanced Research Project (20 ECTS)
Laboratory research project carried out in one of the 21 laboratories of the Research Center of the Ecole Polytechnique

The list of the laboratories is available on:

<http://www.polytechnique.edu> (Research – Research Labs)

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STUDENTS EXCHANGE 2008 – 2009

APPLICATION FORM FOR INCOMING STUDENTS

HOME INSTITUTION	
Name of Institution	
Full Address	
Faculty or Department	
Academic adviser	
Tel.	Fax
E-mail	

1. Student's Personal Information

Family name _____ First name _____

Date of birth _____ Place of birth _____

Marital status Single Married Citizenship _____
 Gender Male Female

Mailing address where you wish to receive the official admission documents (will not be sent before June 2008 for main application. For late applications, November 2008):

Tel. _____ E-mail _____

Permanent address _____

2. Language proficiency

Native language _____ Others _____

French Excellent Good Sufficient None

3. Current studies

Degree to be earned _____

Number of university-level study years prior to departure abroad _____

Field of study _____



Did you already study abroad? yes (*where*) _____ no

4. Program at the Ecole Polytechnique (Please, indicate clearly the courses you wish to attend)

Field of study _____

Courses Advanced Research Project Research internship

* If courses are chosen, which part of the curriculum?

* If the advanced research project is chosen, in which field and in which foreseen laboratory?

* If the research internship is chosen, title of the project and name of the foreseen laboratory

Duration of your stay from _____ to _____

5. Financial support:

Personal Home scholarship (*Please, specify which one*)

Do you apply for financial support from the Ecole Polytechnique? yes no

(Financial support reserved to students with low resources. Proof of resources will be asked once the admission is confirmed)

Approval from home institution

Coordinator of the Exchange Program:

Name, title _____

Address _____

Phone, fax _____
and e-mail _____

Date _____

Signature: _____



Main Application Deadline: February 29th, 2008 for admissions in September 2008 and January 2009.

Additional deadline: October 31st, 2008

To submit your application, please send

- The learning proposal
- A resume
- A description of the grading system of the university
- A description of the courses already taken in the home university in ***two distinct parts***:
 - 1st part: courses taken in Mathematics and in the fields the student is applying for.
 - 2nd part: courses taken in all the other scientific fields.
 - Applicants are required to mention the courses they will be attending until the end of the academic year and to list the reference of the main textbooks (author and title) used for all the described classes.
 - This part will also include a description of the grading system of the university.
- A certificate from a French teacher confirming the student's oral and written level in the language
- Letters of recommendation from two professors

All templates for these documents can be downloaded at:

<http://www.polytechnique.edu/page.php?MID=148>

Please add

- Official transcripts of records including full details of all university-level courses
- 2 passport-size photos
- A letter of statement in French

You must also submit an electronic version of your full application (including scanned official documents) to cecile.vigouroux@polytechnique.edu

Final admission into the program is confirmed in June 2008 for main applications and in November 2008 for late applications.

For further inquiries, please contact:

Ms Cécile Vigouroux
Phone: +33 1 69 33 39 45
Fax: +33 1 69 33 30 53
E-mail : cecile.vigouroux@polytechnique.edu



International Exchange Program - X-USA

LEARNING PROPOSAL
COURSEWORK APPROVAL BY HOME INSTITUTION

Academic year 2008/2009

Field of study:

Name of the student:

Date of birth:

HOME INSTITUTION :

PARTNER INSTITUTION: ECOLE POLYTECHNIQUE (France)

<i>Course reference</i>	<i>Course Title</i>	<i>ECTS Credits</i>

Student's signature

Date

HOME INSTITUTION:

We confirm that the above-proposed program of study is approved

Departmental Coordinator's signature

Institutional Coordinator's signature

Date :

Date :

PARTNER INSTITUTION:

confirms that the above-proposed program of study is approved

Departmental Coordinator's signature

Institutional Coordinator's signature

Date

Date

IMPORTANT: This form does **not** indicate that transfer credit has been *granted*.