



3rd year exchange programs at ECL

2017-2018

International Relations Office

2017/01/25



2 exchange programs

- **Prerequisites**

- Getting at least 180 ETCS credits or the equivalent at the home university before the beginning of the exchange program at ECL
- B2 level in French

- **1- Whole year exchange (academic + internship) (S9-S10) 60ECTS**

September 2017 to end of September 2018

- An academic semester : September to end of March
- A semester of placement : Final Year Internship - Specialized work in a laboratory or in a company, 5 to 6 months, starting from early April, oral defense (last week of September)
- Validation of the whole year exchange = DESECL (Diplôme d'Etudes Supérieures de l'ECL)

- **2- Extended semester (academic) (S9)**

6 months: September 2017 to end of February 2018

- **No internship allowed**
- 30 ECTS credits

3rd year

1 – Whole year exchange S9-S10

When applying, pick an option (among 7) and a stream + a profession (among 7)

• Options and streams

An **Option** is a line of business employing ECL Engineers

- **Aeronautics (AE)** : 1 stream
- **Bio-Engineering and Nanotechnologies (BIN)** : 1 stream
- **Civil Engineering and Environment (GCE)** : 3 streams
 - Structures (OUV)
 - Environment (ENV)
 - Sustainable Constructions (BD)
- **Computer Science and Communication (IC)** : 1 stream
- **Energy (EN)** : 3 streams
 - On-board Energy (EE)
 - Infrastructure Energy (EI)
 - Sustainable Constructions (BD)
- **Mathematics and Decision (MD)** : 2 streams
 - Mathematics and Risk Engineering (MIR)
 - Decision-Making for business (ADE)
- **Transportation and Traffic (TT)** : 3 streams
 - Traffic and Environment (TE)
 - Vehicles Technology (TV)
 - Sustainable and Intelligent Vehicle (VDI)

For more details, refer to our brochure :

« Programme du parcours électif » on the following link :

<http://www.ec-lyon.fr/formation/ingenieur-generaliste>

3rd year

1 – Whole year exchange S9-S10

- **Professions**

A **Profession** is a job which can be held by a young graduate in a company.

7 professions are offered :

- Business Development Engineer (IBD)
- Consulting Engineer (ICs)
- Eco-Design and Innovation Engineer (ICo)
- Operation Manager (IGo)
- Research Engineer (IRD)
- Supply Chain Engineer (ISc)
- Management of industrial and environmental risks (IMR)

3rd year 1 – Whole year exchange S9-S10

When you receive the acceptance letter, please register for courses on-line

• Curriculum

○ Scientific lessons - 22 ECTS

- September to December :
 - Pick 5 MoD = Modules ouverts Disciplinaire
One of them can become compulsory depending on the Option - **2 ECTS credits** 28 hours each
 - 1 MOD « Economical and social culture» **2 ECTS credits**
- January to the end of March :
 - Pick 3 MoS = Modules ouverts Sectoriels
Some of them can become compulsory depending on the Option
 - **2 ECTS credits** (28 hours each)
 - Pick the MSO = Modules Spécifiques d'Option.
(related to your option) - A project is included
 - **4 ECTS credits** (130 hours)

○ Profession - 6 ECTS

- Pick 2 MoM = Modules ouverts Métier (14 Hours each)
- Pick 1 MsM = Module spécifique Métier. The MsM related to your profession is compulsory
 - **2 ECTS credits each of them**
 - Up to 130 supervised hours + Profession project

○ Foreign Language - 2 ECTS

- Pick a foreign language (no beginner classes available)

○ Final year Internship -30 ECTS

- Position related to your Option or Profession -5 to 6 months, in France, in a laboratory or a company
- Written report & oral defense

In order to pass the DESECL, you must obtain the 60 ECTS credits

3rd year 2 – Extended semester S9

When applying, pick a profession (among 7) and rate the MOD

• Curriculum

- **Scientific lessons** - 22 ECTS
 - September to December :
 - Pick 5 MoD = Modules ouverts Disciplinaires
 - **2 ECTS credits** (28 hours each)
 - 1 MOD « economical and social culture »
 - **2 ECTS credits**
 - January to the end of February :
 - Pick 5 MoS = Modules ouverts Sectoriels
 - **2 ECTS credits** (28 hours each)
- **Profession** - 6 ECTS
 - Pick 2 MoM = Modules ouverts Métier
 - Pick a MsM = Module spécifique Métier, related to your profession
 - **2 ECTS credits for each of them**
- **Foreign Language** - 2 ECTS
 - Pick a foreign language (no beginner classes available)
- **No Internship allowed**

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Masters Process

- **In addition to the whole year program, you can apply for a fee paying Master***
 - **MEGA** : Mechanics, energetic, civil engineering, acoustics
 - **EEAP** : Electrical engineering, process engineering
 - **MAIM** : Mathematics and application, mathematical engineering
 - **Materials**
 - **Computer Science**
 - **SAFIR** : Actuarial and financial sciences, risk engineering
 - **NSE** : Nanoscale engineering
 - **ISM** : Medicine and health engineering
 - **PAT** : Psychology at work
 - **Public health** (biostatistics)
 - **RISE** Quantitative economics, risks and environment
 - **GI** : Industrial Engineering

<http://www.ec-lyon.fr/formation/master/masters-recherche-professionnel>

* list subject to confirmation for 2017-18

3rd year S9-S10 Schedule

September to December (14 weeks)

Profession Lessons
(3 weeks)

5 MOD + 2 MoM Profession
(8 weeks)

Profession Lessons
(3 weeks)

January to April (11 weeks)

3 MoS + Option Lessons
(8 weeks)

+ tests MoS
(early March)

Option Lessons
(3 weeks)

April to September (5 to 6 months)

Final Year Internship
(at least 20 weeks)

+ Oral
Defense

S9 - Schedule

September to December (14 weeks)

Profession Lessons
(3 weeks)

5 MOD + 2 MoM Profession
(8 weeks)
+ MOD « Economical and social
culture »

Profession Lessons
(3 weeks)

January to Mid- March

5 MoS
(8 weeks)

+ tests MoS
(Mid- March)