MIF1 – rentrée

www.ens-lyon.fr/DI
To start with

Centre des langues

Véronique Rancurel
Who you are

- some of you were here last year
- others joined us
M1 2017-2018

This page gathers useful informations for students following the first year of Master in Computer Science at Ecole Normale Superieure de Lyon. See here for a description of the M1 year. Here for the rules of the game.

Back to school.

A (mandatory) meeting is organised on sept. 8th, at 9h00, in amphitheater B. The organisation of the year, and several other relevant topics, will be discussed. There will also be two courses on that day (Integrated Project and Optimisation&Approximation), the second one will finish at 15h30 — see below, “First semester”.

See here about the administrative procedure to register at ENSL. Students who were at ENSL in L3 will register on Monday, Sept. 11th. There will also be some exercise sessions on that day.

Schedule: stay tuned for a schedule for the first days (starting on Sept. 8th), and for the typical weekly schedule.

Slides of the presentations (to be provided): general presentation, language department.

A meeting of the whole Département d'informatique will take place on (to be defined).

First semester.

Here is the schedule for the first courses (Sept. 8th-15th).

Here is the typical schedule for the first semester. Note: local modifications can occur along the semester.

Holidays: from Oct. 28th to Nov. 5th, and from Dec. 21st to Jan. 7th.

[this is intentionally in french] Si vous envisagez de préparer l'agrégation de mathématiques l'année prochaine, il est conseillé de valider un modèle de dixième année. Voir cette page pour cela.

Research schools.

Information to be provided here.

Relevant (but possibly incomplete) information available at:

http://www.ens-lyon.fr/DI/?p=5094&lang=en
Courses in computer science, first semester

- English (FLE)
- Integrated Project 1 (mandatory) (IP1+IP2 = 14 weeks)
- Performance Evaluation and Networks
- Compilers and Program Analysis
- Information Theory
- Parallel and Distributed Algorithms and Programs
- Optimisation and Approximation
**Starting today**

**M1 IF - EMPLOI DU TEMPS RENTRÉE, sept. 2017**

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<tr>
<th>LUNDI 11</th>
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<th>JEUDI 14</th>
<th>VENDREDI 15</th>
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<td>13h30 à 15h30</td>
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**NORMALIENS (Étudiants adultes)**

Les Normaliens Étudiants déjà inscrits à l'ENS en 2016-2017 s'inscrivent en année supérieure sous réserve de résultat de jury de passage en année supérieure (plan d'études validé).

**F01 Littéraires**

**F02 Scientifiques**

(Interruption de 12h30 à 13h30)
Registration

- ENS Lyon
  either next monday, or you already dealt with it

- UCBL (Université Claude Bernard Lyon 1)
  to be announced (watch your email)
To do — first weeks

▶ follow all courses, choose afterwards

put the “fiche de choix de modules” in my mailbox
(3d floor, between the north and south parts of the building)

▶ find it on the www page for the M1
▶ arrange a meeting with your tutor, discuss with me if necessary
  ▶ your tutor is the same as last year if you had one
  ▶ if not, you’ll know soon, treat me as your tutor in the meantime if necessary
  contact your tutor early enough
▶ write to me for particular choices (maths, philosophy, etc.)
▶ tell me before the 25th if there will be a delay
  (doubts, tutor out of town... )
First semester — warnings

- the first semester is intensive and tough
  - according to most of last year’s students
  - not much choice for the courses
  - big pressure towards the end of the semester

- organisation:
  - midterm exams: most of them during the week nov. 6-10
    - contact the corresponding teacher + me
  - rely on your délégues if too many deadlines collide
  - anticipate as much as possible (10 days ahead = too late)

- following 5 courses in computer science can be a good choice, but not always
  - there are possibilities for soutien (catch up)

- things get smoother in the second semester
- things get lovely during the summer internship
Some interesting discussions

sept. 18th, 16h00: DI meeting, bâtiment Buisson
Modus vivendi - people in charge, means of communication

- organisation
  - N. Trotignon  DI
  - Y. Robert  Master (and M2)
  - K. Bangoura
  - A. Zagrarni
  - N. Portier
  - D. Hirschkoff
  - ... (LSH, Lyon1, INSA, ...)

- various informations

- I receive the emails sent on  m1if@ens-lyon.fr

- two class representants?
  - let us meet at some point
Modus vivendi - keep in mind that...

- you are supposed to attend courses and TDs
- get in touch with me (for anything) via email
- you are supposed to read and answer your email @ens-lyon (this has an official status)
  - changes in the schedule, ..
  - projects due, midterm exams, ..
- and write as well
  - tell in advance whenever you will have to miss some courses/TDs, . . .
This year, and the future
The academical year

<table>
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<tr>
<th>first semester</th>
<th>14 weeks in total</th>
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<td>8 sept.- 22 dec. (+ exams in january)</td>
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| Toussaint | 28 oct. - 5 nov.  
| Hiver | 23 dec. - 7 jan. |
| exams | 8-12 jan. |
| research schools | sometime in november-december |
| | 15-19 jan. |
| | 22-26 jan. |
| second semester | 10 weeks in total |
| (jan – may) |
| training period | may – august (≥ 11 weeks) |
| defense, final jury | end of august / beginning of september |
Courses in computer science, both semesters

▶ first semester
  ▶ English (FLE)
  ▶ Integrated Project 1 (mandatory) (IP1+IP2 = 14 weeks)
  ▶ Performance Evaluation and Networks
  ▶ Compilers and Program Analysis
  ▶ Information Theory
  ▶ Parallel and Distributed Algorithms and Programs
  ▶ Optimisation and Approximation

▶ second semester
  ▶ English (FLE)
  ▶ Integrated Project 2 (mandatory)
  ▶ Cryptography and Security
  ▶ Computer Algebra
  ▶ Semantics and Verification
  ▶ Distributed Systems
  ▶ Programs and Proofs
  ▶ Data Bases and Data Mining
  ▶ Computational Complexity
  ▶ Computational Geometry and Digital Images
  ▶ Machine Learning
The rules: credits, grades

- first semester
  - Projet Intégré 1: 3
  - Anglais (FLE): 3
  - 4 courses: 24
- 2 research schools: 3
- second semester
  - Projet Intégré 2: 3
  - Anglais (FLE): 3
  - 4 courses: 12
- training period: 9

ECTS in total: 60

- for each computer science course except Projet Intégré:
  \[ NF = \frac{1}{2} \text{NE} + \frac{1}{2} \text{CC} \]
- research schools: pass or fail (no grade)
- the mean is computed with all courses, provided \( NF \geq 8 \)
Next semester, internship

- second semester abroad
  “ENS Lyon / international / partir à l’étranger / Erasmus : études ou stage en Europe”
  - deadline: **sept. 15th**
  - first thing to do: get in contact *very quickly* with Natacha Portier

*it’s too late, basically, except if you somehow already prepared for it*

- internship
  - research
  - \( \geq 11 \) weeks, abroad or in industry
  - there will be a meeting dedicated to the internship
  - person in charge: F. Vivien
Next year

- **M2**
  - here
  - or elsewhere (robotics, machine learning, networks, vision, ...)

- **préparation à l’agrégation**
  - validation de modules FEADéP (cf. email)
  - warning: the weekly schedule for the second semester is extremely dense
  - please send me an email if you *might* consider doing this next year

- **grands corps de l’état**
  - get in touch with Philippe Audebaud

- **concours ENS Cachan**

- or *something else*
Goals during this year

▶ you are students
  ▶ the curriculum is rather rigid
  ▶ we view our M1.1 courses as basic/ground stuff

▶ most of you will eventually become researchers
  ▶ SIESTE (students seminar)
    next tuesday: slides in english, speaks french
  ▶ research schools 1 week, 24 hours
  ▶ training period
  ▶ get deeper into a subject: take initiatives, involve your teachers
    ▶ e.g. reading group
Some advice

- one might like several scientific subjects (or none)
- one might be unsure whether research is the future
- one might quite busy with students life

- the training period a very good pretext to think about your future
  warning: it might not be that easy
  - to decide for a subject
  - to find a training period
  - to live abroad for 3 months

waiting for us to put pressure on you is not a good solution

- try not to hurry being narrow-minded
- let’s meet and talk
To sum up

- choose your english course
- follow all courses for the moment, starting today
- choose your courses for sept. 26th
- stay tuned for enrollment at UCBL

Questions?