

Master in Computer science

Master in Computer science standard 1st year

Presentation

To view the presentation of the Computer science standard 1st year program in French click on the following link : [Parcours Informatique classique 1re année](#)

Registration and scholarships

The first year of master's degree is accessible on file (and / or interview) to candidates with a national diploma conferring the degree of license in a field compatible with that of the master or via a validation of studies or acquired according to the conditions determined by the university or training.

Public continuing education : You are in charge of continuing education :

- if you resume your studies after 2 years of interruption of studies
- or if you followed a formation under the regime formation continues one of the 2 preceding years
- or if you are an employee, job seeker, self-employed

If you do not have the diploma required to integrate the training, [you can undertake a validation of personal and professional achievements \(VAPP\)](#)

Would you like to apply and register ? Please note that the procedure differs depending on the degree, the diploma obtained, or the place of residence for foreign students.

- **You are a non-EU citizen, resident in (*you live in one of these countries*) :**

Algeria, Argentina, Benin, Brazil, Burkina Faso, Cameroon, Chile, China, Colombia, Comoros, Congo, Egypt, Indonesia, Ivory Coast, Lebanon, Madagascar, Mali, Mauritania, Mauritius, Mexico, Morocco, Peru, Russia, Senegal, South Korea, Syria, Taiwan, Togo, Tunisia, Turkey, Vietnam.

[Apply for studies in France](#) and [on FSA](#)

For other applicants : [Apply Now](#)

Practicals informations :

- > **School** : UFR IM2AG (informatique, mathématiques et mathématiques appliquées)
- > **Duration** : 1 year
- > **Course type** : Initial and Continuing Education
- > **Location(s)** : Grenoble - University campus
- > **Contacts** :

Programme director

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Programme administration

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Program

Master Computeur science standard 1st year

Semestre 7

UE Sémantique des langages de programmation et compilation	6 ECTS	60h
UE Génie logiciel	3 ECTS	30h
UE Conception et programmation par objets	3 ECTS	30h
UE Conception des systèmes d'exploitation et programmation concurrente	6 ECTS	60h
UE Base de données	3 ECTS	30h
UE Introduction aux réseaux	3 ECTS	30h
UE Technique des logiciels interactifs	3 ECTS	30h
UE Algorithmes et traitement de données	3 ECTS	30h

Semestre 8

UE Projet	3 ECTS	
UE Complexité algorithmique de problèmes	3 ECTS	30h
1 option (s) to choose from 3		
UE Introduction à la recherche et Travail d'Etude et de Recherche	3 ECTS	15h
UE Introduction à la recherche et stage en entreprise	3 ECTS	15h
UE Anglais scientifique écrit si pas B2	3 ECTS	
7 option (s) to choose from 17		
UE Introduction to distributed systems	3 ECTS	33h
UE Planification automatique et techniques d'intelligence artificielle	3 ECTS	30h
UE Introduction to Modeling and Verification of Digital Systems	3 ECTS	30h
UE Synthèses d'images	3 ECTS	30h
UE Parallel Algorithms and Programming	3 ECTS	33h
UE Fundamental Computer Science	3 ECTS	30h
UE Ergonomie des interfaces homme-machine	3 ECTS	30h

UE Operations Research	3 ECTS	36h
UE DevOps : méthodes et outils	3 ECTS	30h
UE Géométrie numérique	3 ECTS	30h
UE Introduction à l'administration des réseaux	3 ECTS	30h
UE Introduction au pervasive computing	3 ECTS	30h
UE Introduction to cryptology	3 ECTS	36h
UE Introduction à la cybersécurité	3 ECTS	30h
UE Robotics and IoT	3 ECTS	33h
UE Histoire de l'informatique	3 ECTS	18,75h
UE Sciences Informatiques et Médiation	3 ECTS	30h