

Exchange
students

pedagogical
bookle

UFR IM²AG



MARCH 2025

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Welcome to IM²AG

With more than 160 partnerships and joint degrees, the department of Computing, Mathematics and Applied mathematics (IM²AG)

Supports students applying for mobility through the establishment of international education programs during the year or of semesters abroad, of joint degrees or work placements abroad.

Welcomes international students to our French speaking and international training courses.

Helps students applying for international mobility to find funding with the support of the International Students and Scholars Office (ISSO) of the University.

Along with the ISSO and various student associations, assists incoming students during the administrative and social assistance process.



For the past ten years, student surveys have ranked Grenoble among the best student cities in France. Combining the benefits of a vibrant mid-sized city with remarkable natural surroundings, Grenoble is a city of history, culture, sports, nightlife, and much more.

Academic calendar

Orientation Week	1st week of September
Registration	1st week of September
Courses Begin	Bachelor/Master 1: 1st week of September Master 2: 3rd week of September
Courses End	3rd week of December
Exam Period	Varies by program
Re-sit Exams	Master 2: middle of April Bachelor/Master 1: end of June

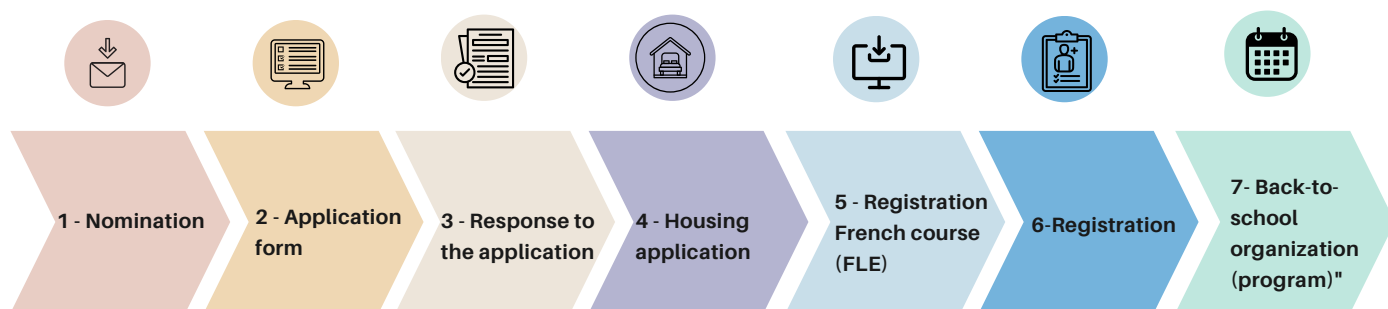
1st semester
Fall season
(September-
January)

2nd
semester
Spring
season
(January-
June)

Orientation Week	2nd week of January
Registration	2nd week of January
Courses Begin	Bachelor: 2nd or 3rd week of January Master 1: January or February Master 2: 3rd week of February
Courses End	1st week of May
Exam Period	Varies by program
Re-sit Exams	Late June

CALENDAR

student exchange program



1st semester or the year

15th March - 30th April

15th March - 30th May

Until 15th June

20th May-23rd June

June 16th to 29th

Beginning of July

2nd semester

30th August - 30th Sept.

15th Sept. - 18th Oct.

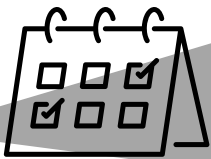
Until 10th Nov.

20th Oct-21st Nov.

January 5th-18th

Beginning of December

Organization of semester



welcome events are planned at the beginning of the semester. The welcome program is sent to students the month before. This program lists the different meetings and activities organized by the student association InteGRe.

Upon your arrival, an appointment will be scheduled for administrative registration and the collection of your student card (the date will be communicated to you by email).

The first steps in your new university year :

(September 2025)

If you have enrolled in a FLE course on your learning agreement, you will receive an email from the CUEF to register in June.

In July, I will email you to proceed with your administrative registration. You will be asked to provide certain documents. You will receive information regarding the start dates of the courses, meetings, as well as campus and city tours. Additionally, an individual appointment will be scheduled to develop your study plan.

So please keep an eye on your inbox.

Starting from 4:00 PM on **September 16, 2025**, course registrations will be final for students in Bachelor's level 3 and Master's 1.

Starting from 4:00 PM on **October 14, 2025**, course registrations will be final for students in Master's 2.

After these deadlines, it will no longer be possible to modify the student's chosen study plan."

The courses



Courses open to exchange students :

BACHELOR

Most courses at UGA are accessible to exchange students.
However, **we cannot guarantee available spots in all modules.**

MASTER

Second-cycle (Master's) students can take Master's level courses.

Access to these courses may be subject to prior approval from the course instructor if specific prerequisites are required (language proficiency, specific knowledge, etc.).

➤ Please note that our course offerings are regularly reviewed, and some courses may be slightly modified or even discontinued.

Final course registration takes place at the beginning of the semester. Please note that you have the opportunity to try out courses during the first week before making your final choice in the second week of classes.



All information about course registration will be provided during the welcome meeting.

Exchange Students Guide



COURSES AND CREDITS

✓ **A minimum of 60% of the credits must be taken within the IM²AG department.**

✓ For example, if you need to take 30 credits for semester 1, 18 credits must be taken within IM²AG, and the remaining 12 credits can be selected from courses in FLE, sports, or other departments.

✓ Maximum 30 credits per semester.

Available Programs:

Bachelor (3rd year) *Our bachelor's degrees are exclusively taught in French* : Mathematics, Computer Science, MIAGE.

Master : Computer Science, Mathematics, Statistics, Fundamental Mathematics.

Our Master's programs are taught in French and/or English, please verify carefully.

Please note that the terminal exam and course start dates may differ if you choose courses from both Bachelor's and Master's levels or between Master 1 and Master 2.



LANGUAGE REQUIREMENTS

B1 in French, B2 in English (a certificate from your home university is required).

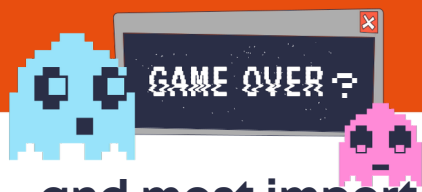
✦ HOW TO CREATE YOUR COURSE PROGRAM AT IM²AG?

Step 1: Identify Your Status

- ✓ Are you a European or non-European student?
 - European Students → Fill out the Learning Agreement (Erasmus format).
 - 🌐 Non-European Students → Fill out the UGA Course Selection Form (provided by UGA).

Step 2: Select Your Courses

- 1 Go to Semester 1 ⚙️ or semester 2. ⚙️
- 2 Check your level:
 - ✦ Bachelor (Licence): 3rd year
 - ✦ Master: 1st or 2nd year
- 3 Choose your program (Computer Science, Mathematics, Applied Maths, etc.).



and most importantly ...

NOTHING IS DEFINITIVE!



This is a provisional choice.

During the welcome meeting, we will explain in detail how our faculty operates, including course arrangements, exams, timetables, etc.

The orientation week, which takes place before the start of classes, is designed to help you finalize your course selection and create your timetable.

You will have the opportunity to schedule meetings with your academic coordinator and the administrative team, benefiting from personalized support.

IMPORTANT!



Timetable

No timetable will be provided before the start of the semester.

The different schedules and course availability confirmations will be published in September only, and you will only be able to access them after activating your UGA student account.

You can then make adjustments during the first week of classes and finalize your pedagogical registration.

DON'T PANIC!



Semester 1 /

Fall semester

From **September** to **January**

These are the “odd” semesters

Semester 5 (Bachelor 3rd year)

Semester 7 (Master 1st year)

Semester 9 (Master 2nd year)

Licence informatique

Formation enseignée en français 

Parcours informatique générale

PROGRAMME :

Code	Cours	Crédits
GBIN5U01	Architectures logicielles et matérielles	6
GBIN5U02	Algorithmique (analyse d'algorithmes, complexité)	6
GBIN5U03	Programmation et projet d'études	6
GBIN5U06	Conception et Exploitation des Bases de Données	6
GBIN5U07	Analyse syntaxique	6



Parcours Mathématiques et informatique

PROGRAMME :

Code	Cours	Crédits
GBMI5U10	Analyse approfondie et Algèbre linéaire <i>Analyse approfondie</i> <i>Algèbre linéaire pour le graphique et la CAO</i>	9
GBMI5U20	Algèbre et arithmétique effectives	6
GBMI5U30	Algorithmique et programmation <i>Algorithmique</i> <i>Programmation</i>	9
GBMI5UAN	Anglais L3 MIN	3

Pour connaître le détail des cours :

- Cliquer sur le nom du parcours
- En bas de la page de formation, cliquez sur l'onglet "Programme" puis "Déplier tout" pour visualiser l'ensemble de la maquette :
- Cliquer sur le cours

Voir la page complète ➤



Parcours MIAGE

Code	Cours	Crédits
GBIE5U01	Management des Systèmes d'Information et Gestion commerciale <i>Management des systèmes d'information</i> <i>Gestion commerciale</i>	6
GBIE5U06	Programmation par objets	6
GBIE5U03	Architectures, Systèmes et Réseaux <i>Architecture des ordinateurs</i> <i>Systèmes d'exploitation</i> <i>Réseaux</i>	6
GBIE5U04	Recherche opérationnelle	3
GBIE5U07	Formalisation des données - Technologies XML	6
GBIE5UAN	Anglais L3 MIAGE	3

Licence mathématiques

Formation enseignée en français 

Parcours mathématiques

PROGRAMME :

Code	Cours	Crédits
GBMA5U01	Exposé oral	3
GBMA5U02	Topologie des espaces vectoriels normés	12
GBMA5U03	Algèbre	12
GBMA5U04	METEDUC	3
GBMA5U05	Programmation de méthodes numériques	3



Parcours Mathématiques avec approfondissements

PROGRAMME :

Code	Cours	Crédits
GBMA5U01	Exposé oral	3
GBMA5U02	Topologie des espaces métriques	12
GBMA5U03	Algèbre A	12
GBMA5U04	METEDUC	3
GBMA5U05	Programmation de méthodes numériques	3

Pour connaître le détail des cours :

- Cliquer sur le nom du parcours
- En bas de la page de formation, cliquez sur l'onglet "Programme" puis "Déplier tout" pour visualiser l'ensemble de la maquette :
- Cliquer sur le cours

Voir la page complète ➤



Master informatique

Formation enseignée en français 

Parcours Informatique

PROGRAMME :

Code	Cours	Crédits
GBIN7U01	Sémantique des langages de programmation	6
GBIN7U02	Génie logiciel	3
GBIN7U03	Conception et programmation par objets	3
GBIN7U04	Conception des systèmes d'exploitation et programmation concurrente	6
GBIN7U05	Base de données	3
GBIN7U06	Introduction aux réseaux	3
GBIN7U07	Technique des Logiciels Interactifs	3
GBIN7U09	Introduction à l'intelligence artificielle et la science des données	3



Parcours Compétences complémentaires en informatique CCI

PROGRAMME :

Code	Cours	Crédits
GBCI9U01	Algorithmique	6
GBCI9U02	Bases de données	3
GBCI9U03	Génie Logiciel	3
GBCI9U04	Programmation et Langages <i>Programmation Langage Machine</i>	6
GBCI9U05	Programmation, Langages et Technologies du Web <i>Technologies du Web Programmation Objet - Java</i>	6
GBCI9U06	Reseaux et Systemes <i>Réseaux Systèmes</i>	3
GBCI9U07	Applications web Avancées	3

Pour connaître le détail des cours :

- Cliquer sur le nom du parcours
- En bas de la page de formation, cliquez sur l'onglet "Programme" puis "Déplier tout" pour visualiser l'ensemble de la maquette :
- Cliquer sur le cours

Voir la page complète ➤



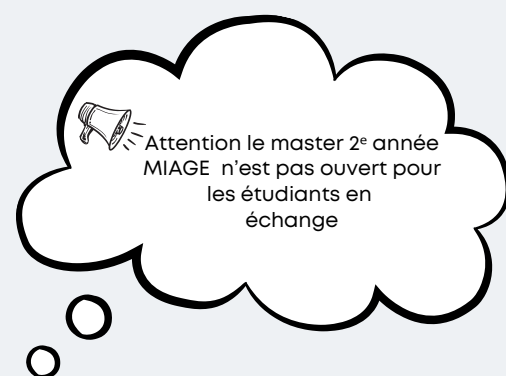
Master Méthodes informatiques appliquées à la gestion des entreprises (MIAGE)

Formation enseignée en français 

Parcours MIAGE 1ère année 

PROGRAMME :

Code	Cours	Crédits
GBIE7U01	Contrôle de gestion	3
GBIE7U16	Processus de développement et spécification formelle	3
GBIE7U06	Patrons et composants (PC)	3
GBIE7U17	Système et cloud Systèmes d'exploitation et programmation concurrente Cloud computing	3
GBIE7U10	Ingénierie des interfaces homme-machine dirigées par modèles (IHM)	3
GBIE7U11	Bases de données avancées	3
GBIE7U14	Analyse fonctionnelle pour la modélisation de processus	3
GBIE7U15	Processus de développement agiles (PA)	3



Pour connaître le détail des cours :

- Cliquer sur le nom du parcours
- En bas de la page de formation, cliquez sur l'onglet "Programme" puis "Déplier tout" pour visualiser l'ensemble de la maquette :
- Cliquer sur le cours

Voir la page complète ➤



Master

mathématiques et applications

Formation enseignée en français 

Parcours mathématiques générales

PROGRAMME :

Code	Cours
GBMG7U01	Algèbre
GBMG7U02	Fonctions holomorphes
GBMG7U07	Analyse
GBMG7U06	Probabilités

Crédits

9
6
9
9



Parcours Statistique et sciences des données 1ère année (SSD)

PROGRAMME :

Code	Cours	Crédits
GBX7AM02	Probabilité	3
GBX7AM03	Statistique inférentielle	3
GBX7SD01	Logiciels spécialisés	6
GBX7SD09	Outils de présentation et de recherche productive	3
GBX7SD04	Analyse des données	3
GBX7SD10	Compléments tests statistiques	3
GBX7SD06	Base de données	3
GBX7SD08	Modèles linéaires et GLM	3

Pour connaître le détail des cours :

- Cliquer sur le nom du parcours
- En bas de la page de formation, cliquez sur l'onglet "Programme" puis "Déplier tout" pour visualiser l'ensemble de la maquette :
- Cliquer sur le cours

Voir la page complète ➤



Parcours Statistique et sciences des données 2ème année (SSD)

PROGRAMME :

Code	Cours	Crédits
GBX9SD01	Statistique computationnelle	3
GBX9SD02	Statistique en grande dimension	3
GBX9SD20	Estimation non paramétrique et fonctionnelle	3
GBX9SD18	Apprentissage statistique 2	3
GBX9SD19	Introduction à l'optimisation en Python et Julia	3
GBX9SD06	Biostatistique avancée	3
GBX9SD10	Fiabilité	3
GBX9SD12	Fouille de textes	3
GBX9SD15	Géostatistique, statistique spatiale	3
GBX9SD16	Sondage	3

International masters

UGA IM²AG and Grenoble INP - Ensimag, UGA
propose several master' programs, fully taught in English 

Master of Science in Informatics (MoSIG) - M1 & M2

Master in Applied Mathematics (AM) - M1

Master of Science in Industrial and Applied Mathematics (SIAM) - M2

Master in Cybersecurity (CySec) - M2

Master in Operations Research, Combinatorics and Optimization (ORCO) - M2

Master Mathématiques fondamentales - M2



Master of Science in Informatics at Grenoble (MoSIG)

Courses taught in English 

MOSIG - 1st year

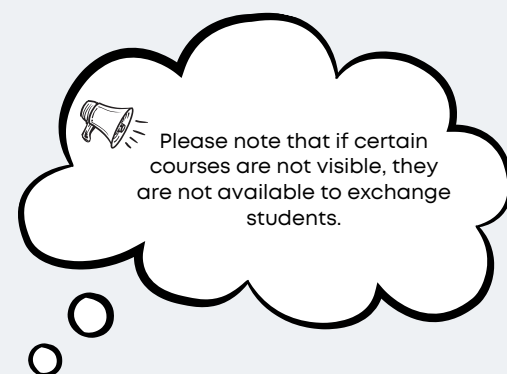
PROGRAM :

Code	Course	Credits
GBX7MO01	Programming language&compiler design	6
GBX7MO02	Software engineering	3
GBX7MO03	Principles of operating systems	6
GBX7MO04	Algorithms Problem Solving	3
GBX7MO05	Mathematics for computer science	3
GBX7MO06	Introduction to Visual Computing	3
GBX7MO10	Introduction to Artificial Intelligence	3

MOSIG - 2nd year

PROGRAM :

Code	Course	Credits
GBX9MO57	Process engineering	6
GBX9MO58	Advanced networking	6
GBX9MO59	Advanced parallel Systems	6
GBX9MO60	Fundamentals of data processing and distributed knowledge	6
GBX9MO61	Scientific Methodology, Regulatory and ethical data usage	6
GBX9MO62	Robotics	6
GBX9MO63	Computer Graphics	6
GBX9MO27	Multi-agent systems	3
GBX9MO37	Information visualization	3
GBX9MO34	Computer Vision	6
GBX9MO69	Cloud Computing, from infrastructure to applications	6
GBX9MO72	Large scale Data Management and Distributed Systems	6
GBX9AM49	GPU Computing	6
GBX9AM76	From Basic Machine Learning models to Advanced Kernel Learning	6
GBX9MO74	Advanced Machine Learning: Applications to Vision, Audio and Text	6
GBX9MO75	Natural Language Processing & Information Retrieval	6
GBX9MO80	Information Security	6
GBX9MO00	Mathematical Foundations of Machine Learning	6
GBX9AM78	Statistical learning: from parametric to nonparametric model	6
GBX9MO82	Human Computer Interaction	6
GBX9MO83	Next Generation Software Development	6
GBX9MO84	Safety Critical Systems: from design to verification	6



To access course details:

- Click on the program name
- At the bottom of the program page, click on the 'Program' tab, then 'Expand all' to view the full course structure
- Click on the course



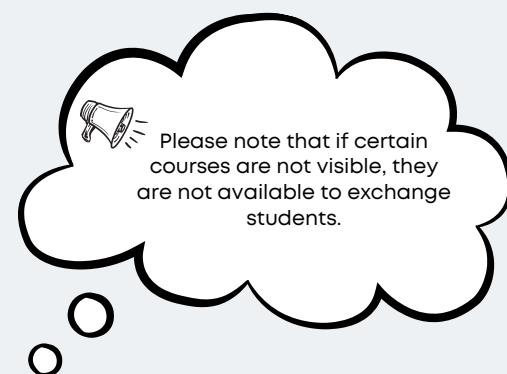
Master of Science in Industrial and Applied Mathematics (MSIAM)

Courses taught in English 

Master applied mathematics - 1st year

PROGRAM :

Code	Course	Credits
GBX7AM10	Object-oriented and software design	3
GBX7AM11	Partial differential and numerical methods	6
	<i>Partial differential equations and numerical methods</i>	6
	<i>Partial differential equations and numerical methods complementary</i>	6
GBX7AM06	Signal and image processing	6
GBX7AM07	Geometric Modelling	3
GBX7AMAN	Anglais M1 AM	6
GBX7AM08	Applied probability and statistics	



Master of science in industrial and applied mathematics - 2nd year

PROGRAM :

Code	Course	Credits
GBX9AM18	Software development tools and methods	3
GBX9AM19	Modeling seminar and projects	6
GBX9AM27	Geophysical imaging	3
GBX9AM28	An Introduction to Shape and Topology Optimization	3
GBX9AM49	GPU Computing	6
GBX9AM50	Differential Calculus, Wavelets and Applications	6
GBX9AM43	Fluid Mechanics and Granular Materials	6
GBX9AM44	Handling uncertainties in (large-scale) numerical models	6
GBX9AM45	Temporal, spatial and extreme event analysis	6
GBX9MO74	Advanced Machine Learning: Applications to Vision, Audio and Text	6
GBX9MO75	Natural Language Processing & Information Retrieval	6
GBX9AM76	From Basic Machine Learning models to Advanced Kernel Learning	6
GBX9MO00	Mathematical Foundations of Machine Learning	6
GBX9AM78	Statistical learning: from parametric to nonparametric models	6
GBX9AM77	Learning, Probabilities and Causality	6
GBX9AM90	Mathematical optimization	6
GBX9AM60	Data Science Seminars and Challenge	6
GBX9AM61	Computational biology	6
GBX9AM88	Quantum Information & Dynamics	6
GBX9AM89	Numerical Mechanics	6
GBX9AM91	Advanced numerical methods for PDEs and optimal transport problems	6

To access course details:

- Click on the program name
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- Click on the course



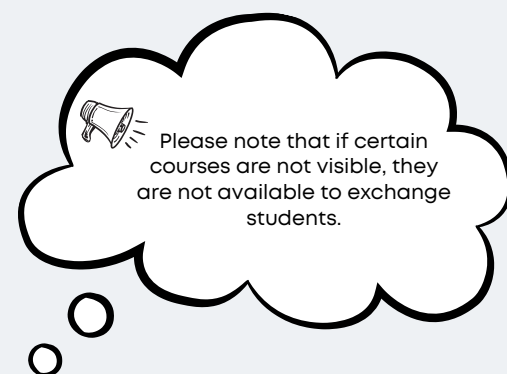
Master in Cybersecurity (CySec) and (ORCO)

Courses taught in English 

Master in Cybersecurity (CySec) - 2nd year

PROGRAM :

Code	Course	Credits
GBX9SY01	Software security, secure programming and computer forensic	3
GBX9SY02	Security architectures	6
GBX9SY03	Cryptographic engineering, protocols and security models, data privacy, coding and applications	6
GBX9SY04	Threat and risk analysis, IT security audit and norms	3
GBX9SY05	Physical Security: Embedded, Smart Card, Quantum & Biometrics	6
GBX9SY06	Advanced Security	6
GBX9SY07	Advanced Cryptology	6



To access course details:

- Click on the program name
- At the bottom of the program page, click on the 'Program' tab, then 'Expand all' to view the full course structure

Master in Operations Research, Combinatorics and Optimization (ORCO)

PROGRAM :

Code	Course	Credits
GBX9CO01	Advanced models and methods in operations research	6
GBX9CO02	Combinatorial optimization and graph theory	6
GBX9CO03	Optimization under uncertainty	6
GBX9CO05	Constraint Programming, applications in scheduling	3
GBX9CO06	Graph and discrete structures	3
GBX9CO07	Advanced heuristic and approximation algorithms	3
GBX9CO08	Advanced mathematical programming methods	3
GBX9CO09	Academic and industrial challenges	3
GBX9CO10	Transport Logistics and Operations Research	6
GBX9MO59	Advanced parallel Systems	6
GBX9MO27	Multi-agent systems	3
GBX9MO60	Fundamentals of data processing and distributed knowledge	6
GBX9MO61	Scientific Methodology, Regulatory and ethical data usage	6
GBX9MO72	Large scale Data Management and Distributed Systems	6
GBX9SY03	Cryptographic engineering, protocols and security models, data privacy, coding and applications	6
GBX9AM76	From Basic Machine Learning models to Advanced Kernel Learning	6
GBX9MO00	Mathematical Foundations of Machine Learning	6
GBX9AM77	Learning, Probabilities and Causality	6
GBX9AM78	Statistical learning: from parametric to nonparametric models	6
GBX9AM90	Mathematical optimization	6
GBX9MO84	Safety Critical Systems: from design to verification	6
GBX9MO37	Information visualization	3
GBX9AM49	GPU Computing	6
GBX9MO62	Robotics	6
GBX9MO69	Cloud Computing, from infrastructure to applications	6
GBX9MO74	Advanced Machine Learning: Applications to Vision, Audio and Text	6
GBX9MO75	Natural Language Processing & Information Retrieval	6
GBX9MO80	Information Security	6
GBX9MO82	Human Computer Interaction	6
GBX9MO83	Next Generation Software Development	6

- Click on the course



Master mathématiques fondamentales

Courses taught in English 

Master mathématiques fondamentales- 2nd year

PROGRAM :

Code	Course	Credits
GBFO9U18	Algebraic topology	12
GBFO9U19	Pseudo-Riemannian geometry	12
GBFO9U20	Complex differential geometry and invariant metrics	12
GBFO9U21	3d flows and their sections	6
GBFO9U22	Knot theory and low-dimensional topology	6



Please note the Fundamental Mathematics program changes every year.

To access course details:

 [Click on the program name](#)





Other course options

One-year limit: If a student's stay is limited to one year, they can only take one semester of French language courses.

➤ **FRENCH LANGUAGE COURSE INTENSIF / EXTENSIF** ☼

Code	Cours	Crédits
GBRIFLE1	• 1st semester (Sept-Dec): 2h/week (6:30-8:30 PM)	3
GBRIFLE2	• 2nd semester (Jan-May): 2h/week (6:30-8:30 PM) .	
Intensive option available in August-September.		

➤ **Transversal Teachings (ETC)**

- you can choose up to 2 ETCs per semester (only 1 modern language and 1 sport)

Code	Cours	Crédits
GBRI113O	Langue Vivante Etrangère (LVE) ☼	3
UHWAL002	Sport ☼	3
GBRI123O	ETC du Service des Enseignements Transversaux (SET) ☼	3

➤ **External courses within other UFRs of UGA**

- 2 cours maximum dans une autre UFR par semestre

[See the course catalog for exchange students.](#) ☼

➤ We do not guarantee access to courses outside the training program.

Semester 2 /

Spring semester

From **January** to **June**

These are the “even-numbered” semesters

Semester 6 (Bachelor 3rd year)

Semester 8 (Master 1st year)

Semester 10 (Master 2nd year)

Licence informatique

Formation enseignée en français 

Parcours informatique générale

PROGRAMME :

Code	Cours	Crédits
GBIN6U01	Introduction aux systèmes et réseaux	6
GBIN6U02	Modèles de calcul	6
GBIN6U03	Programmation et projet d'études	6
GBIN6U04	Algorithmique et modélisation	6
GBIN6UAN	Anglais L3 INFO	3
GBIN6U08	Méthodes et outils pour la conception avancée	3
GBIN6U09	Sciences Informatiques et Médiation	3
GBIN6U10	Le numérique, un levier vers la soutenabilité ?	3
GBIN6U11	Introduction au Machine Learning	3
GBIN6U07	Recherche Opérationnelle	3



Parcours Mathématiques et informatique

PROGRAMME :

Code	Cours	Crédits
GBMI6U10	Modèles probabilistes et différentiels <i>Modèles probabilistes et statistique</i> <i>Modèles différentiels et applications</i>	9
GBMI6U20	Graphes, Optimisation discrète et continue <i>Graphes et optimisation discrète</i> <i>Optimisation continue</i>	6
GBMI6U30	Programmation par objet, système et base de données <i>Programmation par objet</i> <i>Système et Bases de données</i>	9

Pour connaître le détail des cours :

- Cliquer sur le nom du parcours
- En bas de la page de formation, cliquez sur l'onglet "Programme" puis "Déplier tout" pour visualiser l'ensemble de la maquette :
- Cliquer sur le cours

Voir la page complète ➤



Parcours MIAGE

Code	Cours	Crédits
GBIE6U01	Gestion comptable et gestion des ressources humaines <i>Gestion comptable</i> <i>Gestion des ressources humaines</i>	3
GBIE6U02	Validation d'algorithmes et modèles statistiques <i>Validation d'algorithmes</i> <i>Modèles statistiques</i>	3
GBIE6U10	Composants logiciels et IHM	6
GBIE6U04	Méthodologie et projet informatique	6
GBIE6U05	Programmation déclarative	3
GBIE6U06	Bases de données et conception de systèmes d'information <i>Base de données</i> <i>Conception de systèmes d'information</i>	6

Licence mathématiques

Formation enseignée en français 

Parcours mathématiques

PROGRAMME :

Code	Cours	Crédits
GBMA6U11	Calcul différentiel B	9
GBMA6U12	Calcul intégral, Introduction aux Probabilités	12
UIW6GAN1	Anglais L3 MATHS	3
GBMA6U03	Introduction à la modélisation numérique	6
GBMA6U13	Géométrie	6



Parcours Mathématiques avec approfondissements

PROGRAMME :

Code	Cours	Crédits
GBMA6U01	Calcul différentiel A	9
GBMA6U02	Théorie de la mesure et introduction aux probabilités	12
GBMA6U03	Introduction à la modélisation numérique	6
UIW6GAN1	Anglais L3 MATHS	3

Pour connaître le détail des cours :

- Cliquer sur le nom du parcours
- En bas de la page de formation, cliquez sur l'onglet "Programme" puis "Déplier tout" pour visualiser l'ensemble de la maquette :
- Cliquer sur le cours

Voir la page complète ➤



Master informatique

Formation enseignée en français 

Parcours Informatique

PROGRAMME :

Code	Cours	Crédits
GBIN8U02	Complexité algorithmique de problèmes	3
GBIN8U03	Introduction to distributed systems	3
GBIN8U04	Planification automatique et techniques d'intelligence art.	3
GBIN8U05	Introduction to modeling and verification of digital systems	3
GBIN8U06	Synthèses d'images	3
GBIN8U07	Parallel algorithms and programming	3
GBX8MO13	Fundamental Computer Science	3
GBIN8U09	Ergonomie des interfaces Homme-Machine	3
GBIN8U11	Devops : méthodes et outils	3
GBIN8U12	Géométrie Numérique	3
GBIN8U13	Introduction à l'administration réseaux	3
GBIN8U15	Traitement d'images	3
GBIN8U16	Introduction to cryptology	3
GBX8MO10	Introduction to mobile robotics	3
GBIN8U20	Histoire de l'informatique	3
GBIN8UAN	Anglais M1 INFO	3
GBIN8U10	Operations Research	3
GBIN8U19	Introduction à la cybersécurité	3
GBX8MO42	Embodying the shift: digital in the age of low-tech	3
GBX8AM32	Algebraic Algorithms for Cryptology	3



Pour connaître le détail des cours :

- Cliquer sur le nom du parcours
- En bas de la page de formation, cliquez sur l'onglet "Programme" puis "Déplier tout" pour visualiser l'ensemble de la maquette :
- Cliquer sur le cours

Parcours Compétences complémentaires en informatique CCI)

PROGRAMME :

Code	Cours	Crédits
GBCIXT01	Stage (M2 CCI)	24

Voir la page complète ➤



Master Méthodes informatiques appliquées à la gestion des entreprises (MIAGE)

Formation enseignée en français 

Parcours MIAGE 1ère année 

PROGRAMME :

Code	Cours
GBIE8U01	Calculs financiers et statistiques (CFS)
GBIE8U02	Gestion financière (GF)
GBIE8U04	Projet de développement mobile
GBIE8U06	Introduction à l'analyse de données
GBIE8U09	Gestion de production (GP)
GBIE8U11	Projet modélisation des exigences et UML (UML)
GBIE8U16	Droit Droit du Numérique Droit du travail

Crédits

3
3
3
3
3
3
3



Attention le master 2^e année
MIAGE n'est pas ouvert pour
les étudiants en
échange

Pour connaître le détail des cours :

- Cliquer sur le nom du parcours
- En bas de la page de formation, cliquez sur l'onglet "Programme" puis "Déplier tout" pour visualiser l'ensemble de la maquette :
- Cliquer sur le cours

Voir la page complète ➤



Master mathématiques et applications

Formation enseignée en français 

Parcours mathématiques générales

PROGRAMME :

Code	Cours	Crédits
GBX8AM20	Operations Research (AM and MG) <i>Operations Research</i> <i>Operations Research Complementary</i>	6
GBMG8U11	Actions de groupes et géométrie hyperbolique	6
GBMG8U12	Algèbre effective et applications	6
GBMG8U13	Géométrie différentielle	6
GBMG8U14	Probabilités approfondies : chaînes de Markov et mécanique statistique	6
GBMG8U15	Théorie spectrale, EDP et mécanique quantique	6
UIW8GAN1	Anglais M1 MG	3



Parcours Statistique et sciences des données 1ère année (SSD)

PROGRAMME :

Code	Cours	Crédits
GBX8SD20	Apprentissage statistique 1	3
GBX8SD12	Projet tutoré et gestion de projet	6
GBX8SD21	Visualisation de données	3
GBX8SDT1	Stage (M1 SSD)	9
GBX8SD22	Données dépendantes 1 : séries temporelles	9
GBX8SD10	Informatique décisionnelle	3
GBX8SD08	Données d'entreprise	3
GBX8SD24	Epidémiologie	3

Pour connaître le détail des cours :

- Cliquer sur le nom du parcours
- En bas de la page de formation, cliquez sur l'onglet "Programme" puis "Déplier tout" pour visualiser l'ensemble de la maquette :
- Cliquer sur le cours

Voir la page complète ➤



Parcours Statistique et sciences des données 2ème année (SSD)

PROGRAMME :

Code	Cours	Crédits
GBXXSDT2	Stage (M2 SSD)	24

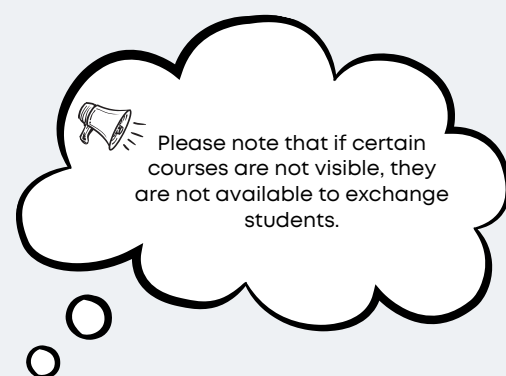
Master of Science in Informatics at Grenoble (MoSIG)

Courses taught in English 

MOSIG - 1st year

PROGRAM :

Code	Course	Credits
GBX8MOAN	Technical writing and speaking	3
GBIN8U05	Introduction to modeling and verification of digital systems	3
GBX8MO11	Operations Research	3
GBX8MO03	Database foundations	3
GBIN8U03	Introduction to distributed systems	3
GBX8MO05	Human Computer interaction	3
GBX8MO07	Computer networks principles	3
GBX8MO08	3D Graphics	3
GBX8MO10	Introduction to mobile robotics	3
GBIN8U16	Introduction to cryptology	3
GBIN8U07	Parallel algorithms and programming	3
GBX8MO13	Fundamental Computer Science	3
GBX8MO15	Foundations of Data Science	3
GBX8MO42	Embodying the shift: digital in the age of low-tech	3
GBX8AM32	Algebraic Algorithms for Cryptology	3



To access course details:

- Click on the program name
- At the bottom of the program page, click on the 'Program' tab, then 'Expand all' to view the full course structure
- Click on the course

Voir la page complète ➤



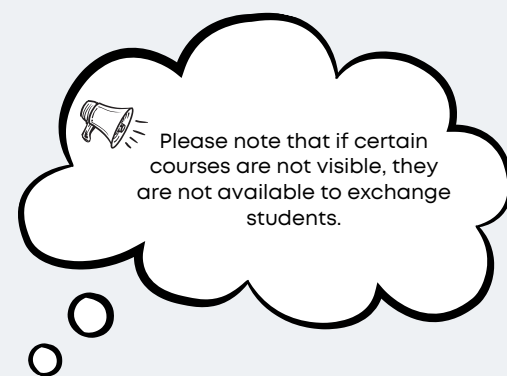
Master of Science in Industrial and Applied Mathematics (MSIAM)

Courses taught in English 

Master applied mathematics - 1st year

PROGRAM :

Code	Course	Credits
GBX8AM17	Computing science for big data and HPC <i>HPC</i> <i>Introduction to database</i>	6
GBX8AM02	Numerical optimisation	6
GBX8AM20	Operations Research <i>Operations Research</i> <i>Operations Research complementary</i>	6
GBX8AM21	Introduction to cryptology <i>Introduction to cryptology</i> <i>Algebraic Algorithms for Cryptology</i>	6
GBX8AM23	3D Graphics <i>3D Graphics</i> <i>3D Graphics Complementary</i>	6
GBX8AM31	Statistical learning and applications <i>Statistical learning and applications</i> <i>Statistical learning and applications complementary</i>	6
GBX8AM26	Variational methods applied to modelling <i>Variational methods applied to modelling</i> <i>Variational methods applied to modelling complementary</i>	6



To access course details:

- Click on the program name
- At the bottom of the program page, click on the 'Program' tab, then 'Expand all' to view the full course structure
- Click on the course



Master of science in industrial and applied mathematics - 2nd year

PROGRAM :

Code	Course	Credits
GBX9AM18	Research projects	30

Master in Cybersecurity (CySec) and (ORCO)

Courses taught in English 

Master in Cybersecurity (CySec) - 2nd year

PROGRAM :

Code	Course	Credits
GBXXSYT2	Internship M2 Cysec	30



Master in Operations Research, Combinatorics and Optimization (ORCO)

PROGRAM :

Code	Course	Credits
GBXXCOT2	Internship M2 ORCO	30

To access course details:

- Click on the program name
- At the bottom of the program page, click on the 'Program' tab, then 'Expand all' to view the full course structure
- Click on the course

Voir la page complète 



Other course options 2nd semester



FRENCH LANGUAGE COURSE EXTENSIF ☼

Code

GBRIFLE2

• (Jan-May): 2h/week (6:30-8:30 PM) .

Crédits

3



Transversal Teachings (ETC)

- you can choose up to 2 ETCs per semester (only 1 modern language and 1 sport)

Code

Cours

Crédits

GBRI213O

Langue Vivante Etrangère (LVE) ☼

3

UHBAL002

Sport ☼

3

GBRI223O

ETC du Service des Enseignements Transversaux (SET) ☼

3



External courses within other UFRs of UGA

- 2 cours maximum dans une autre UFR par semestre

[See the course catalog for exchange students.](#) ☼



We do not guarantee access to courses outside the training program.

GETTING ORGANIZED

INTERNATIONAL STUDENTS & SCHOLARS OFFICE - ISSO

ISSO welcomes, informs and assists international students with the administrative and settlement procedures: housing, insurance, residence permit applications, integration of families.



PRACTICAL INFORMATION



ESTIMATED COST OF LIVING

Food	200€-300€/month 3,25€ - 4,75€/meal at university restaurant
Phone / Internet	from 2€ to 30€/month
Transportation	<25 years old: 18.70€/month. https://www.tag.fr/ Bike rental: 15€-25€/month (+ deposit). https://www.veloplus-m.fr/
Housing	University residence (CROUS): from 200€-500€/month Private residence: from 450€-850€/month
Health insurance and complementary health coverage	from 6€-40€/month
Civil liability Insurance	from 16€-35€/year

INTEGRATION

ORIENTATION EVENT FOR INTERNATIONAL STUDENTS

Check out the different integration events for international students: information meetings, cultural and festive activities, sports etc.



THE STUDENT ASSOCIATION

IntEGre student association accompanies international students and facilitates intercultural exchange for those studying all across Grenoble: city and campus visits, student gatherings, language tandems, etc.



MENTORING SYSTEM

The Buddy program get you in contact with a local student to guide and advise you so that your stay starts smoothly.



INTERCULTUREL QUIZ

Test your knowledge with these three quizzes and get plenty of anecdotes and advices to prepare for your arrival.

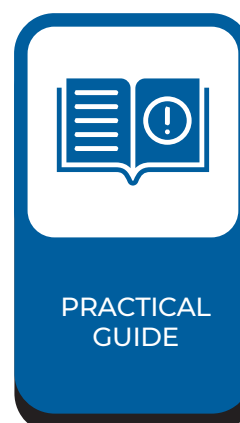
ADDITIONAL INFORMATION

THE FRENCH UNIVERSITY SYSTEM

To study in France it is necessary to understand the French university system: evaluation, grading, types of courses, organization of semesters etc.

1° Semester Sep-Dec/January Fall	L1 (Licence 1)		L2 (Licence 2)		L3 (Licence 3)		M1 (Master 1)		M2 (Master 2)	
	BACHELOR - Undergraduate						MASTER - Graduate			
	Semesters									
2° Semester January-May/June Winter-Spring	1	2	3	4	5	6	7	8	9	10
	1st year		2nd year		3rd year		4th year		5th year	

USEFUL WEBSITES



Contacts

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INTERNATIONAL RELATIONS IM²AG

IRO - UGA Faculties

