

## THE IMA'S ASSETS

- Multiple competences for a job in business
- 50% of students spend a semester studying abroad
- Excellent success rate in finding jobs
- Work placement lasting between 7 and 9 months
- A dynamic team of teachers
- One-to-one follow-up
- A network of partners in industry

## STUDY ABROAD

Students have the opportunity to study abroad for one semester (1st semester in M1 or M2):



## ADMISSIONS REQUIREMENTS

### MASTER 1

Candidates must have a degree (or Licence) in Applied mathematics, or Maths and computer science or in Computer science.

Candidates can in certain cases be accepted with a degree (or Licence) in Mathematics.

### MASTER 2

Admission based on candidate's application and interview.

## TEACHING FEES

Application fee:	60 €
Compulsory enrolment fee:	164 €
Tuition fees (2005-2006):	3,050 €



**IMA**  
Institut de  
mathématiques  
appliquées



## MASTER

# IN LOGISTICS AND COMPUTING SCIENCE

specialisation in MATHS AND COMPUTER SCIENCE APPLIED TO LOGISTICS



Sciences and technology

## MASTER

# IN STATISTICS AND ACTUARIAL SCIENCE

specialisation in MATHS AND COMPUTER SCIENCE APPLIED TO THE  
PROFESSION OF ACTUARY



### IMA - UCO

44 rue Rabelais  
49008 Angers cdx 01  
Tel.: 02 41 81 67 13/66 73  
Fax: 02 41 81 67 00  
secima@ima.uco.fr  
http://ima.uco.fr

## MASTER IN LOGISTICS AND COMPUTING SCIENCE

specialisation in maths and computer science applied to logistics

### AIMS



- to produce highly qualified logistics managers, capable of managing and optimising the logistics chain;
- to train computer engineers, capable of designing and developing information systems and creating an interface using computing solutions;
- to offer a grounding in computer technology;
- to complement theoretical teaching in computer science and optimisation with a sound training in logistics.

### COURSE AND CLASSES



The course is constructed around three main disciplines, optimisation, statistics and computer science. The teaching is both specialised and pluridisciplinary: it is complemented by disciplines necessary for management careers (business strategy, relations in the workplace and so on), communication in English, systemics, and general culture. Professionals also intervene in a separate 'professional' unit.

#### MASTER 1

##### FIRST SEMESTER




Stochastic operational research - 54 h  
Statistics 1  - 63 h  
Computing 1  - 60 h  
Modelization - complex systems - 50 h  
English and options - 44 h / 50 h


##### SECOND SEMESTER


Modelizing discrete problems - 40 h  
Computing and decision-making 1  - 50 h  
Statistics  - 65 h  
Management and the professional environment - 45 h  
Psychosociology and organizations - 45 h

#### MASTER 2

##### THIRD SEMESTER

Computing and decision-making 2  - 55 h  
Computing 2 - 50 h  
Logistics and supply chain management  - 60 h  
Information system and logistics  - 100 h  
Systemics and English - 60 h

 Student project

 The supervised Master project is a basic part of training which offers students the opportunity to work on a full-scale professional case. Under scientific supervision by the teacher and based on an actual business case, the project allows the student to fully apply his or her technical training in a real business context and to develop the skills necessary to good team work.

### WORK PLACEMENT FOR SEVEN TO NINE MONTHS

Introduction to the workplace

After the first year of the Master there is a three-month work placement. The fourth semester of the Master consists in a work placement.

90%  
of students find a job  
within 3 months



## MASTER IN STATISTICS AND ACTUARIAL SCIENCE

specialisation in maths and computer science applied to the profession of actuary

### AIMS



- to produce managers specially trained in applying mathematical methods to problems of a financial nature and with a mastery of the methods and means used in finance and insurance;
- to train non-specialists in the fields of insurance, finance and prediction;
- to open up job opportunities by applying the multiple competences of the student in other areas, by using statistical skills especially in the business sector (marketing and commerce).

### COURSE AND CLASSES



The course is constructed around three main disciplines, optimisation, statistics and computer science. The teaching is both specialised and pluridisciplinary: it is complemented by disciplines necessary for management careers (business strategy, relations in the workplace and so on), communication in English, systemics, general culture. The theoretical classes in statistical and probability methods are complemented by the intervention of professionals from the fields of assurance, insurance and banking and from other types of company.

#### MASTER 1

##### FIRST SEMESTER



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Statistics 1  - 63 h  
Computing 1  - 60 h  
Modelization - complex systems - 50 h  
English and options - 44 h / 50 h


##### SECOND SEMESTER


Modelizing discrete problems - 40 h  
Computing and decision-making 1  - 50h  
Statistics 2  - 65 h  
Management and the professional environment - 45 h  
Psychosociology and organizations - 45 h

#### MASTER 2

##### THIRD SEMESTER

Computing and decision-making 2  - 55 h  
Statistics 3  - 60 h  
Mathematics for finance - 70 h  
Mathematics for insurance and assurance - 48 h  
Systemics and English - 60 h

 Student project

 The supervised Master project is a basic part of training which offers students the opportunity to work on a full-scale professional case. Under scientific supervision by the teacher and based on an actual case (bank or insurance company), the project allows the student to fully apply his or her technical training in a real business context and to develop the skills necessary to good team work.

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