amU Faculté d'économie et de gestion Aix Marseille Université

amse école d'économie d'aix-marseille aix-marseille school of economics



Master Econometrics Statistics

Dual degree program with University of Tübingen

amU Aix Marseille Université

Dear candidate,

Aix-Marseille School of Economics promotes the idea of students acquiring international experience throughout their academic journey. This can be achieved through various avenues, including participating in a dual degree program. The advantages of such international experiences are indisputable.

One of the key benefits is the opportunity to gain fresh perspectives. Experiencing education and life in a different country allows students to broaden their worldview, fostering a more comprehensive understanding of global issues and diverse cultural practices. This exposure to new ideas contributes significantly to personal and intellectual growth.

Moreover, engaging with a different academic culture can be intellectually enriching. Experiencing diverse teaching methods, research approaches, and academic environments can enhance a student's skill set and provide a well-rounded education. It encourages adaptability and flexibility, qualities that are increasingly valuable in our interconnected and rapidly changing world.

Beyond the academic realm, international experiences contribute to the expansion of personal and professional networks. Interacting with individuals from diverse backgrounds not only enhances cultural competence but also creates connections that can be valuable in both personal and professional spheres. Building a global network can open doors to future collaborations, career opportunities, and a deeper understanding of the interconnectedness of the academic and professional landscape.

In essence, Aix-Marseille School of Economics recognizes the multifaceted advantages of international experiences for students.

Best regards,

Karine Gente
Professor of Economics
Vice Dean International Relations

What is a dual degree?

A dual degree is a distinctive dual program that offers you the opportunity to:
- Study at two prestigious universities.
- Obtain two diplomas.
- Cultivate a unique differentiator for your CV.
- Spend the first academic year abroad and the second year at AMSE.
- Engage in programs taught exclusively in English.

Why choose a dual degree?

Opting for a dual degree presents a multitude of advantages:
- Immerse yourself in new academic experiences and elevate your intellectual prowess.
- Expand your horizons through increased cultural and social exposure.
- Delve into a new business environment and broaden your understanding.
- Foster valuable connections worldwide for future professional collaborations.
- Spend a full academic year in an outstanding city and renowned school.
- Become an integral part of a diverse and inclusive international community.
- Equip yourself with the tools for a successful international career.

How does it work?

- Eligibility: Students must hold a 180 ECTS Bachelor's degree and a letter from the English teacher certifying level B2.
- Duration: Four semesters (two years).
- Language: English.
- Accreditation: 120 ECTS.
- The M1 takes place in Germany, Tübingen, University of Tübingen.
- The M2 takes place in France, Marseille, AMSE/Aix-Marseille Université.

Curriculum

Master 1 European Economics Tübingen

Courses - Semesters 1 and 2	ECTS
Core courses	18
Core Studies Econometrics	0-9
Advanced Time Series Analysis or Advanced Microeconometrics	9
Core Studies International Economics & Economics	9-18
Advanced Microeconomics or Advanced Macroeconomics	9
Specialization Studies: Economics *In the specialization studies, students have to obtain a minimum of 33 and a maximum of 42 credits. Modules chosen within this area must be assigned to the focuses chosen in the area of Core Studies. Within each of the focuses, a minimum of 6 ECTS must be obtained. In brackets are the semester as well as the ECTS of the courses.*	33-42
Economics	
Open Economy Macroeconomics (Winter Semester)	6
Financial Economics (Winter Semester)	9
Advanced Mathematical Methods (Winter Semester)	3
Economics of Taxation (Spring Semester)	9
Monetary Economics (Spring Semester)	6
Advanced Labour Economics (Spring Semester)	6
Behavioral Economics (Spring Semester)	6
Elective courses 9 credits among which the shared UE between Tübingen and AMSE:	
Master seminar European Economic Integration (Spring Semester)	9

Master 2, choose 1 track among 2

Track Econometrics Data Science (EDS)

Courses - Semester 3	ECTS
BCC 1 : Etre capable d'utiliser les méthodes de la science de données	
Machine Learning et Programmation I / Machine Learning and Programming I	9
Machine learning et statistical learning / Machine Learning and Statistical Learning	
Programmations / Programming	
Logiciels / Software	
BCC 2 : Etre capable de comprendre et appliquer les techniques économétriques	
Econométrie I / Econometrics I	12
Méthodes de prévision / Predictive Methods	
Méthodes de réduction de l'information / Methods for Information Reduction	
Méthodes non paramétriques en économétrie / Non-parametrics Methods in Econometrics	
Séries temporelles / Time Series	
BCC 3 : Etre capable de concevoir, conduire et communiquer autour d'un projet en maîtrisant l'environnement professionnel	
Applications et projets I / Applications and Projects I	8
Utilisation de la science des données : limites et défis / Practicing data science in the real world: Limitations and Challenges	
Application: marketing quantitatif / Application: Quantitative Marketing	
Méthodologie des études économétriques et statistiques / Methodology of econometric and statistical studies	
Préparation de l'insertion professionnelle / Preparation for entering the job market	1
Ateliers de professionnalisation / Professional training	
Courses - Semester 4	**ECTS**
BCC 1 : Etre capable d'utiliser les méthodes de la science de données	
Machine Learning et Programmation II / Machine Learning and Programming II	6
Machine learning avancé / Advanced Machine Learning	
Interprétabilité et la causalité en Machine Learning / Interpretability and Causality in Machine Learning	

BCC 2 : Etre capable de comprendre et appliquer les techniques économétriques	
Econométrie II / Econometrics II	3
Modèles de transitions et de durées / Transition and Duration Models	
Colles en économétrie / Oral training in econometrics	
BCC 3 : Etre capable de concevoir, conduire et communiquer autour d'un projet en maîtrisant l'environnement professionnel	
Applications et projets II / Application and projects II	3
Hackathon / Hackathon	
Certification / Certification	
BCC 4 : Se professionnaliser	
Stage de fin d'études / End-of-studies internship	18
Rapport de stage / Internship report	
Soutenance de stage / Internship defense	

Track Research in Econometrics

Courses - Semester 3	ECTS
BCC 1 : Etre capable d'utiliser les méthodes de la science des données et des mathématiques à des fins diagnostiques et prédictives	
Econométrie et mathématiques appliquées / Econometrics and applied mathematics	8
Econométrie approfondie / Advanced Econometrics	
Economie des réseaux / Network Economics	
Machine learning et Statistical learning / Machine Learning and Statistical Learning	
BCC 2 : Etre capable de mobiliser des savoirs économiques théoriques et appliqués pour effectuer de la modélisation économique et économétrique	
Tronc commun en Economie / Core Classes in Economics	6
Macroéconomie approfondie / Advanced Macroeconomics	
Microéconomie approfondie / Advanced Microeconomics	
Analyse Econometrique et Financière (2 ECUE au choix) / Economic analysis (choose 2 among 4)	6
Méthodes de prévision / Predictive Methods	
Méthodes non paramétriques en économétrie / Non-parametrics Methods in Econometrics	
Finance d'entreprise approfondie / Advanced Corporate Finance	
Processus Stocastique et Application / Stocastic Processes and Application	
BCC 3 : Etre capable de concevoir, conduire et communiquer autour d'un projet de recherche en maîtrisant les outils économiques et économétriques appropriés	
Introduction à la recherche et professionalisation / Introduction to research and professionalisation	4
Questions de recherche / Research Questions	
Ateliers de professionnalisation / Professional training	
Enseignements specialisés / Specialised Classes	6
Méthodes de réduction de l'information / Methods for information reduction	
Séries temporelles / Time Series	
Courses - Semester 4	**ECTS**
BCC 2 : Etre capable de mobiliser des savoirs économiques théoriques et appliqués pour effectuer de la modélisation économique et économétrique	
Modelisation économétrique / Econometric modelling	8
Modèles de transitions et de durées / Transition and duration models	
Interprétabilité et la causalité en Machine Learning / Interpretability and Causality in Machine Learning	
BCC 3 : Etre capable de concevoir, conduire et communiquer autour d'un projet de recherche en maîtrisant les outils économiques et économétriques appropriés	
Méthodologie et mémoire de recherche / Methodology and research thesis	22
Méthodologie de la recherche / Research methodology	
Mémoire de recherche ou stage de fin d'études / Research thesis or internship report	



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Contacts

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AMSE is a department of the Faculty of Economics and Management, within Aix-Marseille Université.

Université franco-allemande
Deutsch-Französische Hochschule

For this dual degree program, you will receive a UFA scholarship of 350 euros, which can be combined with the Erasmus scholarship.

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