

# **Courses open to the exchange students from TSE Partner Universities**

**Licence 1 to Master 1  
2023-2024**

**Major in economics: +50% of your  
course choices must be at TSE**

# LICENCE 1ère année mention ECONOMIE

## Parcours Economie et Gestion

### 2023-2024

	Erasmus code	Credits ECTS	Number of hours: Lectures (CM)	Number of hours: Tutorials* (TD) (TP)	Language of teaching	Professor
<b>Semester 1</b>						
Economie générale	ELUED101	6	30	15	French	I. Péchoux
Introduction à la Gestion	ELUED102	6	30	15	French	B. Hameau
Mathématiques pour l'économie et la gestion 1	ELUED103	7	45	24 + 4,5 TP	French	J.-L. Voléry
Introduction au Droit	ELUED104	4	30	/	French	S. Hortala - E. Fohrer-Dedeurwaerder
<b>Semester 2</b>						
Microéconomie de la production	ELUED200	5,5	30	15	French	S. Parenty
Macroéconomie générale 1	ELUED201	5,5	30	15	French	I. Péchoux
Mathématiques pour l'économie et la gestion 2	ELUED202	7	45	30	French	J.P. Ibrahim
Statistique Descriptive pour l'économie et la gestion	ELUED203	4	18	15	French	S. Casanova

CM: "Cours Magistral" means **Lecture**

TD: "Travaux Dirigés" means **Tutorials**

TP: "Travaux Pratiques" means **Practical Tutorials**

All these courses are taught in French, and the final written exams will be in French too.

\*Tutorials:

Please note that you are just allowed to take the **TDs taught in French, not in English**

#### **Tutorial attendance (compulsory)**

Any absence must be justified to the teaching assistant during the TD course right after your absence (medical certificate, other documents to justify the absence)

3 unjustified absences to tutorials means: you will obtain a tutorial grade equal to zero even if you were present at the mid-term exams

#### **Mid-term exams to obtain a tutorial grade (CC: "Contrôle Continu" in French):**

**Attendance to these mid-term exams is compulsory.**

However, if you miss one or all of these mid-term exams, then, the final exam will represent 100 % of the final grade.

You won't have to justify your absence to the mid-term exams but you will only have one grade: the final exam grade.

In most cases the final grade represents: 50% of the tutorial grades and 50% of the final written exam

#### **First Semester: Mid-term exams to obtain a tutorial grade (CC: "Contrôle Continu" in French)**

Economie générale: 2 Mid-term exams

Introduction à la Gestion: 2 Mid-term exams

Mathématiques pour l'économie et la gestion 1: 2 Mid-term exams

At the beginning of the course in September, you will have 3 pre-tutorial classes in Mathematics, a test in September (evaluation of your level).

#### **Second Semester: Mid-term exams to obtain a tutorial grade (CC: "Contrôle Continu" in French)**

Microéconomie de la production: 2 Mid-term exams

Macroéconomie générale 1: 2 Mid-term exams

Mathématiques pour l'économie et la gestion 2: 2 Mid-term exams

Statistique Descriptive pour l'économie et la gestion: 1 Mid-term exam

# LICENCE 1ère année mention ECONOMIE

## Parcours Economie

### 2023-2024

	Erasmus code	Credits ECTS	Number of hours: Lectures (CM)	Number of hours: Tutorials (TD) (TP)	Language of teaching	Professor
<b>Semester 1</b>						
Microéconomie 1 *	ELUEA100	5	30	15	French	P. Alby
Macroéconomie 1 *	ELUEA101	5	30	15	French	M.Cojocar / I. Péchoux
Introduction à la Gestion *	ELUEA102	5	30	15	French	B.Hameau
Mathématiques 1 *	ELUEA103	5	30	15 + 6 TP	French	B.Huou
Introduction au Droit pour économiste	ELUEA104	4	30	/	French	T. Garé / C. Dounot / L. Sourzat
<b>Semester 2</b>						
Microéconomie 2*	ELUEA200	6	30	15	French	Rebeyrol
Macroéconomie 2*	ELUEA201	6	30	15	French	I. Péchoux
Mathématiques 2*	ELUEA202	6	30	15	French	M. Duval

CM: "Cours Magistral" means **Lecture**

TD: "Travaux Dirigés" means **Tutorials**

TP: "Travaux Pratiques" means **Practical Tutorials**

All these courses are taught in French, and the final written exams will be in French too

\*Tutorials (TDs):

Please note that you are just allowed to take the **TDs taught in French, not in English**

#### **Tutorial attendance (compulsory)**

Any absence must be justified to the teaching assistant during the TD course right after your absence (medical certificate, other documents to justify the absence)

3 unjustified absences to tutorials means: you will obtain a tutorial grade equal to zero even if you were present at the mid-term exams

#### **Mid-term exams to obtain a tutorial grade (CC: "Contrôle Continu" in French):**

**Attendance to these mid-term exams is compulsory.**

However, if you miss one or all of these mid-term exams, then, the final exam will represent 100 % of the final grade

You won't have to justify your absence to the mid-term exams but you will only have one grade: the final exam grade

In most cases the final grade represents: 50% of the tutorial grades and 50% of the final written exam

#### **First Semester: Mid-term exams to obtain a tutorial grade (CC: "Contrôle Continu" in French)**

Microéconomie 1: 2 Mid-term exams

Macroéconomie 1: 2 Mid-term exams

Introduction à la gestion: 2 Mid-term exams

Mathématiques 1: 2 Mid-term exams.

At the beginning of the course in September, you will have 3 pre-tutorial classes in Mathematics, a test in September (evaluation of your level), and a last pre-tutorial class (to have the test result).

#### **Second Semester: Mid-term exams to obtain a tutorial grade (CC: "Contrôle Continu" in French)**

Microéconomie 2: 2 Mid-term exams

Macroéconomie 2: 2 Mid-term exams

Mathématiques 2: 2 Mid-term exams

# Licence 2ème année mention Economie

## Parcours Economie et Gestion

### 2023-2024

	Erasmus code	Credits ECTS	Number of hours: Lectures (CM)	Number of hours: Tutorials (TD) (TP)	Language of teaching	Professor
<b>Semester 1</b>						
Microéconomie du consommateur *	ELUED308	5	30	15	French	M. Batté
Macroéconomie générale 2 *	ELUED309	5	30	15	French	Mrs Bottega
Marketing	ELUED302	5	30	15	French	M. Grobert
Mathématiques pour l'économie et la gestion 3	ELUED310	5	30	/	French	Mrs. Duval
Probabilités pour l'économie et la gestion	ELUED311	4	30	15	French	M. Perrin
Compléments en mathématiques 3**	ELMED301	4	30	15	French	Mrs. Duval
Sociologie**	ELMED302	4	30	/	French	M. Roggero
<b>Semester 2</b>						
Microéconomie du marché *	ELUED408	5	30	15	French	Mrs Bottega
Macroéconomie générale 3 *	ELUED409	5	30	15	French	M. Rebeyrol
Mathématiques pour l'économie et la gestion 4	ELUED410	5	30	/	French	R. Guilbot
Statistiques Inférentielles pour l'économie et la gestion	ELUED412	5	30	15	French	Mrs. Vignes
Compléments en mathématiques 4**	ELMED401	4	30	15	French	M. Voléry
Base de données	ELUED405	4	15	30	French	M. Andonoff

CM: "Cours Magistral" means **Lecture**

TD: "Travaux Dirigés" means **Tutorials**

All these courses are taught in French, and the final written exams will be in French too.

\*Tutorials (TDs) in Microéconomie du consommateur, Macroéconomie générale 2, Microéconomie du marché, Macroéconomie générale 3:

Please note that you are just allowed to take the **TDs taught in French, not in English**

\*\*Electives courses: you can only choose one course between these 2 (First semester).

#### Tutorial attendance (compulsory)

Any absence must be justified to the teaching assistant during the TD course right after your absence

(medical certificate, other documents to justify the absence)

3 unjustified absences to tutorials: the tutorial grade is equal to zero, even if you were present at the mid-term exams

**Mid-term exams to obtain a tutorial grade (CC: "Contrôle Continu" in French): Attendance to these mi-term exams is compulsory.**

However, if you miss one or all of these mid-term exams, then, the final exam will represent 100 % of the final grade.

You won't have to justify your absence to the mid-term exams but you will only have one grade: the final exam grade.

In most cases the final grade represents: 40% of the tutorial grades and 60% of the final written exam

or 50% of the tutorial grades and 50% of the final written exam (depending on the course)

#### First Semester: Mid-term exams to obtain a tutorial grade (CC: "Contrôle Continu" in French)

Microéconomie du consommateur: 2 Mid-term exams

Macroéconomie générale 2: 2 Mid-term exams

Mathématiques pour l'économie et la gestion 3: 2 Mid-term exams

Probabilités pour l'économie et la gestion: 1 Mid-term exam

**The attendance to these mid-term exams is compulsory.**

But, if you miss one or all of these mid-term exams, then, the final exam will represent 100 % of the final grade:

only for Microéconomie du consommateur, Macroéconomie générale 2, Mathématiques pour l'éco et la gestion 3,

Probabilités pour l'éco et la gestion, Mathématiques pour l'éco et la gestion 4.

You won't have to justify your absence to the mid-term exams but you will only have one grade: the final exam grade.

#### Second Semester: Mid-term exams and organization in "small groups"

**Microéconomie du marché:** the course is taught in "small groups". There are 2 mid-term exams during the semester, no final exam.

Attendance is compulsory.

If you have missed one of these 2 mi-term exams: a retake exam will be possible only if you can justify your absence.

Final grade: average of the 2 mid-term exams + grade for course participation

**Macroéconomie générale 3 :** the course is taught in small groups. There are 2 mid-term exams during the semester, no final exam.

Attendance is compulsory.

If you have missed one of these 2 mi-term exams: a retake exam will be possible only if you can justify your absence.

Final grade: average of the 2 mid-term exams + grade for course participation

**Mathématiques pour l'économie et la gestion 4:** 2 Mid-term exams

**Statistiques Inférentielles pour l'économie et la gestion:** 1 Mid-term exam

**Base de données:** 1 or 2 Mid-term exams

# Licence 2ème année mention Economie

## Parcours Economie

### 2023-2024

	Erasmus code	Credits ECTS	Number of hours: Lectures (CM)	Number of hours: Tutorials (TD) (TP)	Language of teaching	Professor
<b>Semester 1</b>						
Microéconomie 3 *	ELUEA300	5	30	15	French	M. Alary
Macroéconomie 3 *	ELUEA301	5	30	15	French	M. Feve
Mathématiques 3	ELUEA303	5	30	15 + 6 TP	French	M. Ginez
Probabilités	ELUEA304	5	30	15	French	M. Perrin
<b>Semester 2</b>						
Microéconomie 4 *	ELUEA400	5	30	15	French	Mrs Bottega
Macroéconomie 4 *	ELUEA401	5	30	15	French	M.Rebeyrol
Mathématiques 4	ELUEA402	5	30	15	French	M. Volery
Analyse économique des enjeux de demain	ELUEA403	4	30	/	French	M. Pistolesi
Statistiques Inférentielles	ELUEA404	5	30	15	French	M.Huou

CM: "Cours Magistral" means **Lecture**

TD: "Travaux Dirigés" means **Tutorials**

All these courses are taught in French, and the final written exams will be in French too.

\*Tutorials (TDs) in Microéconomie 3, Macroéconomie 3, Microéconomie 4, Macroéconomie 4:

Please note that you are just allowed to take the **TDs taught in French, not in English**

#### **Tutorial attendance (compulsory)**

Any absence must be justified to the teaching assistant during the TD course right after your absence (medical certificate, other documents to justify the absence)

3 unjustified absences to tutorials means: you will obtain a tutorial grade equal to zero even if you were present at the mid-term exams

#### **Mid-term exams to obtain a tutorial grade (CC: "Contrôle Continu" in French):**

**Attendance to these mi-term exams is compulsory.**

However, if you miss one or all of these mid-term exams, then, the final exam will represent 100 % of the final grade.

You won't have to justify your absence to the mid-term exams but you will only have one grade: the final exam grade.

In most cases the final grade represents: 40% of the tutorial grades and 60% of the final written exam

or 50% of the tutorial grades and 50% of the final written exam (depending on the course)

#### **First Semester: Mid-term exams to obtain a tutorial grade (CC: "Contrôle Continu" in French):**

Microéconomie 3: 2 Mid-term exams

Macroéconomie 3: 2 Mid-term exams

Mathématiques 3: 2 Mid-term exams

Probabilités: 1 Mid-term exam

**The attendance to these mid-term exams is compulsory.**

But, if you miss one or all of these mid-term exams, then, the final exam will represent 100 % of the final grade:

only for Microéconomie 3, Macroéconomie 3, Mathématiques 3, Probabilités, Mathématiques 4

You won't have to justify your absence to the mid-term exams but you will only have one grade: the final exam grade.

#### **Second Semester: Mid-term exams and organization in "small groups"**

**Microéconomie 4:** the course is taught in "small groups". There are 2 mid-term exams during the semester, no final exam.

Attendance is compulsory.

If you have missed one of these 2 mi-term exams: a retake exam will be possible only if you can justify your absence.

Final grade: average of the 2 mid-term exams + grade for course participation

**Macroéconomie 4:** the course is taught in small groups. There are 2 mid-term exams during the semester, no final exam.

Attendance is compulsory.

If you have missed one of these 2 mi-term exams: a retake exam will be possible only if you can justify your absence.

Final grade: average of the 2 mid-term exams + grade for course participation

**Mathématiques 4:** 2 Mid-term exams

**Statistiques Inférentielles:** 1 Mid-term exam

## Licence 3ème année mention Economie 2023-2024

	Erasmus code	Credits ECTS	Number of hours: Lectures (CM)	Number of hours: Tutorials (TD) (TP)	Language of teaching	Professor
<b>Semester 1</b>						
Microéconomie 5	ELUEA500	6	30	15	French	Mrs Dubec
Topics in Macro 1	ELUEA501	6	30	15	English CM and TD	M. Alby
Mathématiques	ELUEA502	6	30	30	French	M. Volery
Probabilité Statistique	ELUEA503	6	30	15	French	Mrs Duval
Analyse des données et tests statistiques*	ELUEA504 ELMEA500	4	25.5	15	French	Mrs Casanova / Mrs Leconte
Comportements stratégiques et applications à l'économie*	ELUEA504 ELMEA502	4	30	0	French	M. Gobillard
Economie Internationale*	ELUEA504 ELMEA501	4	30	0	French	Mrs Péchoux
<b>Semester 2</b>						
Economie Industrielle	ELUEA600	5	30	15	English TD only	M. Gasmi
Topics in Macro 2	ELUEA601	5	30	15	English CM and TD	M. Batté
Introductory Econometrics	ELUEA602	5	30	15+15 TP	English TD and TP only	Mrs Cazals
Topics in Modern Economics	ELUEA604 ELMEA600	5	30	15	English CM and TD	Mrs Durrmeyer
Economie publique*	ELUEA604 ELUEA604	5	30	0	French	M. Lozachmeur
Economie du climat*	ELUEA604 ELUEA604	5	30	0	French	M. Gollier

CM: "Cours Magistral" means **Lecture**

TD: "Travaux Dirigés" means **Tutorials**

TP: "Travaux Pratiques" means **Practical Tutorials**

Courses taught in French: final written exams will be in French too.

### Semester 1 and Semester 2

S1 and S2 \* Analyse des données et tests statistiques, Comportements stratégiques et application à l'économie, Economie Internationale, Economie publique, Topics in Modern Economics and Economie du climat: elective courses. You can only choose one between these 3 courses (S1) or between these 3 courses (S2). These courses are taught in French except Economie du Climat and Topics in Modern Economics.

### Tutorial attendance (compulsory)

Any absence must be justified to the teaching assistant during the TD course right after your absence (medical certificate, other documents to justify the absence)

3 unjustified absences to tutorials means: you will obtain a tutorial grade equal to zero

### Mid-term exams to obtain a tutorial grade (CC: "Contrôle Continu" in French):

**Attendance to these mid-term exams is compulsory.**

However, if you miss one or all of these mid-term exams, then, the final exam will represent 100 % of the final grade.

You won't have to justify your absence to the mid-term exams but you will only have one grade: the final exam grade.

### First Semester: Mid term exams to obtain a tutorial grade (CC: "Contrôle Continu" in French)

Microéconomie 5: 1 Mid-term exam

Topics in Macro 1: 1 Mid-term exam

Mathématiques: 1 Mid-term exam

Analyse de données et tests statistiques: the mid-term exam is a project

Probabilités Statistique: 1 Mid-term exam

### Second Semester: Mid term exams to obtain a tutorial grade (CC: "Contrôle Continu" in French)

Economie Industrielle: 1 Mid-term exam

Topics in Macro 2: 1 Mid-term exam

Introductory Econometrics: 1 Mid-term exam + project

Topics in modern economics: 1 Mid-term exam

# Master 1 mention Economics

## International Track

### 2023-2024

	Erasmus code	Credits ECTS	Number of hours: Lectures (CM)	Number of hours: Tutorials (TD) (TP)	Language of teaching	Professor
<b>Semester 1</b>						
Macroeconomics	EMMEC100	5	30	10.5	English	Mrs Assenza
Game Theory	EMMEC101	5	30	12	English	M. Gobillard
Theory of Incentives	EMMEC137	2,5	15	6	English	M. Smolin / Mrs Shahanaghi
R Programing	EMMEC138	2,5	15	7.5 TP	English	M. Parenty
Experimental economics*	EMMEC113	2	15	8 seats only	English	to be confirmed
Environmental economics*	EMMEC108	2	15	12 seats only	English	M. Lamp
Markov Chains and applications*	EMMEC110	2	15	/	English	M. Ibrahim
Probability Modeling*	EMMEC111	2	15	/	English	Mrs Voltchkova
Evolution of economic behaviour*	EMMEC112	2	15	/	English	M. Seabright
Understanding real world organizations*	EMMEC114	2	15	/	English	M. Seabright
Political Economy*	EMMEC115	2	15	8 seats only	English	Mrs Michelitch
Market power and regulation*	EMMEC134	2	15	8 seats only	English	Mrs Auriol
Markets and incentives: a historical-theoretical perspective*	EMMEC139	2	15	8 seats only	English	M. Mario
Project management*	EMMEC116	2	15	/	English	to be confirmed
<b>Semester 2</b>						
Public Economics	EMMEC103	5	30	10.5	English	M. Cremer
Industrial organization*	EMMEC117	4	30	9	English	M. de Cornière / Mr Rhodes
Environmental and resource economics	EMMEC118	4	30	/	English	M. Salanié
Economics of human development*	EMMEC119	4	30	/	English	M. Tapsoba
Corporate finance*	EMMEC120	4	30	/	English	M. Guembel
Market Finance*	EMMEC121	4	30	/	English	Mrs Moins
Dynamic optimization*	EMMEC122	4	15	12	English	Mrs Alziary
Martingales Theory and applications*	EMMEC123	4	15	12	English	M. Miclo / M. Villeneuve
Panel Data*	EMMEC124	4	30	/	English	M. Simioni
Time Series*	EMMEC125	4	24	9	English	M. Meddahi
Data Bases*	EMMEC126	4	15	12 TP	English	M. Tournier
Empirical Industrial Organization*	EMMEC127	4	15	12	English	Mrs Gazmuri
Topics in food economics*	EMMEC128	4	15	12	English	Mrs Goulao/Mrs Mechumache
Advanced Macro*	EMMEC129	4	30	/	English	M. Collard/MrsGonzalez Aguado
Advanced Micro*	EMMEC130	4	30	/	English	M. Smolin / M. Martimort
Behavioral and experimental economics*	EMMEC131	4	15	12	English	Mrs Assenza



#### \*Elective courses

CM: "Cours Magistral" means **Lecture** TD: "Travaux Dirigés" means **Tutorials**

TP: "Travaux Pratiques" means **Practical Tutorials**

**Be careful, some pairs of electives aren't compatible.**

**Semester 1 : R Programing overlaps with Introduction to convex optimization for machine learning (M1 Econometrics and statistics)**

#### Tutorial attendance (compulsory)

Any absence must be justified to the teaching assistant during the TD course right after your absence (medical certificate, other documents to justify the absence)

3 unjustified absences to tutorials means: you will obtain a tutorial grade equal to zero

#### Mid term exams to obtain a tutorial grade (CC: "Contrôle Continu" in French):

**Attendance to these mi-term exams is compulsory.**

All absences must be justified, just after the exam period.

However, if you are absent for the mid-term exam and have justified your absence, then your final grade will be based 100 % on the final exam.

If you do not justify your absence for the mid-term exams, you will receive a grade of zero.

In most cases the final grade represents: 40% of the tutorial grades and 60% of the final written exam





# Masters 1 Data Science for Social Sciences

## Master 1 Applied mathematics and statistics

### Courses open to the exchange students 2023-2024

#### Master 1 Econometrics and statistics International: Data science for social science Track

	Erasmus code	Credits ECTS	Number of hours: Lectures (CM)	Number of hours: Tutorials (TD)	Language of teaching	Professor
<b>Semester 1</b>						
Intermediate econometrics	EMMSA103	5	30	10.5 + 10.5 TP	English	M. Jochmans
Introduction to convex optimization for machine learning	EMMSA135	5	30	15	English	M. Pauwels 
<b>Semester 2</b>						
Program evaluation	EMMSA105	4	30	10.5	English	M. Diegert
Stochastic methods for optimization and sampling	EMMSA133	5	30	/	English	M. Chhor 

#### Master 1 Applied mathematics and statistics International: Mathematics and Economic decision

	Erasmus code	Credits ECTS	Number of hours: Lectures (CM)	Number of hours: Tutorials (TD)	Language of teaching	Professor
<b>Semester 1</b>						
Functional Analysis /Advanced analysis	EMUMA125	5	30	15	English	M. Villeneuve
<b>Semester 2</b>						
Mathematical game theory	EMUMA130	6	30	/	English	M. Renault

CM: "Cours Magistral" means **Lecture**

TD: "Travaux Dirigés" means **Tutorials**

TP: "Travaux Pratiques" means **Practical Tutorials**

#### Prerequisites - Pré requis :

Analysis (compact metric spaces, continuous functions,...), elementary Probability Theory and interest in mathematics and strategic thinking.

#### Grading system - Modalités d'évaluation :

a mid-term exam (40 %) and a final exam (60%)

**Be careful, some pairs of electives aren't compatible (second semester).**

**Semester 1 : R Programing overlaps with Introduction to convex optimization for machine learning (M1 Econometrics and statistics)**

#### **Tutorial attendance (compulsory)**

Any absence must be justified to the teaching assistant during the TD course right after your absence (medical certificate, other documents to justify the absence)

3 unjustified absences to tutorials means: you will obtain a tutorial grade equal to zero

**Mid term exams to obtain a tutorial grade (CC: "Contrôle Continu" in French):**

**Attendance to these mi-term exams is compulsory.**

All absences must be justified, just after the exam period.

However, if you are absent for the mid-term exam and have justified your absence, then your final grade will be based 100 % on the final

If you do not justify your absence for the mid-term exams, you will receive a grade of zero.

In most cases the final grade represents: 40% of the tutorial grades and 60% of the final written exam