



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

**Licence 1 to Master 1  
2022-2023**

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

# LICENCE 1ère année mention ECONOMIE

## Parcours Economie et Gestion

### 2022-2023

	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	M. Cojocaru / 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	R. Guilbot
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	Lucie Bottega
Macroéconomie générale 1	ELUED201	5,5	30	15	French	S.Kankanamge / 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

### 2022-2023

	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	C.Gollier
Macroéconomie 1 *	ELUEA101	5	30	15	French	M.Cojocar
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	Lucie Bottega
Macroéconomie 2*	ELUEA201	6	30	15	French	S.Kankanamge / 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

### 2022-2023

	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	M. Volery / R. Guilbot
Statistiques Inférentielles pour l'économie et la gestion	ELUED412	5	30	15	French	M.Huou / Mrs. Vignes
Compléments en mathématiques 4**	ELMED401	4	30	15	French	to be confirmed
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 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: 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 mid-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 mid-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

### 2022-2023

	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	Mrs Bottega / 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 / Mrs Vignes

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 2022-2023

	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. Kankanange
Introductory Econometrics	ELUEA602	5	30	15+15 TP	English TD and TP only	Mrs Cazals
Economie publique*	ELUEA604 ELUEA602	5	30	0	French	M. Lozachmeur
Economie du climat*	ELUEA604 ELUEA603	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 ans S2 \* Analyse des données et tests statistiques, Comportements stratégiques et application à l'économie, Economie Internationale, Economie publique and Economie du climat: elective courses. You can only choose one between these 3 courses (S1) or between these 2 courses (S2). These courses are taught in French.

### 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.

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

# Master 1 mention Economics International Track 2022-2023

	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
Theory of Incentives	EMMEC102	3	15	6	English	M. Smolin / Mrs Shahanaghi
R Programming	EMMEC106	2	15	7.5 TP	English	M. Parenty
Environmental economics*	EMMEC108	2	15	7 seats only	English	M. Andersson
Economic history*	EMMEC109	2	15	/	English	M. Gay
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	7 seats only	English	Mrs Michelitch
Market power and regulation*	EMMEC134	2	15	5 seats only	English	Mrs Auriol
Project management*	EMMEC116	2	15	/	English	Mrs Vaufrey
<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. Andersson
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 Moinas
Dynamic optimization*	EMMEC122	4	15	12	English	Mrs Alziary
Martingales Theory and applications*	EMMEC123	4	15	12	English	M. Miclo
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
Topics in food economics*	EMMEC128	4	12	12	English	Mrs Goulao
Advanced Macro*	EMMEC129	4	30	/	English	M. Smolin
Advanced Micro*	EMMEC130	4	30	/	English	M. Yamashita

\*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 (second semester).**

**Please contact Mrs Strachan in charge of the M1 students and schedules to have more information:**

[louise.strachan@ut-capitole.fr](mailto:louise.strachan@ut-capitole.fr)

### **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.**

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 2022-2023

#### 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. Lavergne
Game Theory	EMMSA106	5	30	12	English	M. Gobillard
<b>Semester 2</b>						
Program evaluation	EMMSA105	5	30	10.5	English	M. Kamat

#### 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>						
Mathematical game theory 1	EMUMA113	6	30	/	English	M. Renault
Advanced analysis	EMUMA114	6	30	15	English	M. Villeneuve
<b>Semester 1</b>						
Mathematical game theory 2	EMUMA119	6	30	/	English	M. Gensbittel

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

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

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

Please note the pre-requisites for these 3 courses:

#### **Advanced analysis**

Please consult the content of the course before. Here is the link:

[https://perso.math.univ-toulouse.fr/gadat/files/2012/12/cours\\_Analyse\\_M15.pdf](https://perso.math.univ-toulouse.fr/gadat/files/2012/12/cours_Analyse_M15.pdf)

#### **Mathematical game theory 1**

Please consult the content of the course before. Here is the link:

<https://sites.google.com/site/jrenaultsite/lecturenotes>

#### **Course's Objectives - Objectifs du cours :**

This course is an introduction to strategic optimization, the mathematical aspects of game theory.

It first focuses on zero-sum games, which are essential to the understanding of : worst-case analysis in one person decision making, games of total conflict and general-sum games (where cooperation can be sustained via zero-sum games strategies). Then some aspects of data sciences, such as Approachability, No-Regret Learning and Calibration, are presented.

#### **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%)

#### **Mathematical game theory 2:**

You must have followed the 2 courses Advanced analysis and Strategic optimization from the first semester.



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

**Please contact Mrs Strachan in charge of the M1 students and schedules to have more information:**

[louise.strachan@ut-capitole.fr](mailto:louise.strachan@ut-capitole.fr)

**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.**

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

Course levels : Exchange students	Online Schedules to consult
LICENCE 1ère année mention ECONOMIE Parcours Economie et Gestion	L1 ECONOMIE EG
LICENCE 1ère année mention ECONOMIE Parcours Economie	L1 ECONOMIE - ELEDA11GC - ELEDA11TD - ELEDA11PTD
Licence 2ème année mention Economie Parcours Economie et Gestion	L2 ECONOMIE EG
Licence 2ème année mention Economie Parcours Economie	L2 ECONOMIE
Licence 3ème année mention Economie	L3 ECONOMIE
Master 1 mention Economics international track	M1 ECONOMIE I:E
Master 1 Econometrics and statisticsInternational: Data science for social science Track	M1 ES I: DSSS
Master 1 Applied mathematics and statisticsInternational: Mathematics and Economic decision	M1 MAS I: MED