

Année universitaire 2024/2025

Sciences des organisations Londres - 2e année de Licence

Crédits ECTS : 60

LES OBJECTIFS DE LA FORMATION

The second year of the Bachelor's degree in Economics and Management is the continuation of the first-year core academic courses, in order to consolidate and develop the requirements of students in Economics, Management, Law, Social Sciences and quantitative disciplines.

- - Acquisition of a common core of knowledge in Law, Economics, Management and Social Sciences;
- Acquisition of the quantitative tools (Mathematics, Statistics and Computer Science) necessary for further studies;
- · Acquisition of knowledge of today's political and economic environment;
- - Acquisition of soft skills and personal responsibility for future personal and academic decisions (Trajectoire);
- - Awareness of contemporary issues, particularly in terms of digital transformation (digital semester in year 2);
- The ability to make an informed first choice of specialisation in year 3. The campus organises presentations of the four major tracks and selective programmes offered by the university:
- o Bachelor's degree in Applied Economics,
- o Bachelor's degree in Social Sciences,
- o Bachelor's degree in Economics and Management,
- o Bachelor of Law (subject to validation of the CEJ legal studies certificate during year 1 and year 2);
- o Selective programmes: Magistère Banque Finance Assurance; Magistère Sciences de gestion; Contrôle, Comptabilité; Audit, Gestion de patrimoine;
- · Development of the acquisition of an autonomous academic university working method;
- Access to corporate experience through an internship or a regular job.

PRÉ-REQUIS OBLIGATOIRES

- Avoir validé 60 ECTS dans un autre établissement
- Très bon niveau requis en anglais (B2 minimum : IELTS SELT Consortium (British Council) : IELTS Academic for UKVI ; LanguageCert : LanguageCert International ESOL SELT B2 (Listening, Reading, Writing, Speaking) ; Pearson : PTE Academic UKVI ; PSO Services (UK) Ltd : Skills for English).

POURSUITE D'ÉTUDES

Students who validate year 2 of their bachelor's degree may be automatically enrolled in the year 3 of their choice (Management, Economics or Social Sciences). Enrolment in the Law track is subject to the validation of the two-year Certificate of Legal Studies (CEJ certificate followed during years 1 & 2).

- Semestre 3
 - Tronc commun
 - Social Sciences and Method: Political Sciences
 - Macroeconomics 1
 - Microeconomics 1
 - Management Accounting
 - Global Contemporary Issues
 - History of the Management of the Firm
 - Statistics
 - Contract Law
 - English and Communication
 - Soft Skills & Employability
 - Options
 - Second Foreign Language
 - Introduction to Financial Markets
 - Digital Project
- Semestre 4
 - Tronc commun
 - Social Sciences and Method: Sociology
 - Macroeconomics 2
 - Microeconomics 2
 - Global Contemporary Issues
 - Management Accounting
 - Digital Sciences
 - Contract law
 - Mathematics
 - English and Communication
 - Soft Skills & Employability
 - Professional Experience
 - Options
 - Introduction to Financial Markets
 - Digital Project
 - Second Foreign Language

DESCRIPTION DE CHAQUE ENSEIGNEMENT

Contract Law

ECTS : 2

Volume horaire : 18

Contract law

ECTS : 1

Volume horaire : 12

Digital Project

ECTS : 1

Volume horaire : 12

Digital Project

Digital Sciences

ECTS:4

Volume horaire : 30

Description du contenu de l'enseignement :

- · Introduce computational logic and programming syntax
- · Explore various ways of writing a program solution for a given problem statement
- · Develop the essential technological background for students' work life.

Compétence à acquérir :

By the end of this module, students will have demonstrated the ability to:

Knowledge

- 1. Broad knowledge of programming principles
- 2. Knowledge of current technology applications with the programming concepts **Skills**
- 1. Evaluate a problem statement for building the structural blocks of a program
- 2. Examine the problem statement to interpret the input and output requirements of the program.
- 3. Design conditional statements using Boolean expressions.
- 4. Construct repetitive instructions.
- 5. Apply modularity in algorithmic: Python function and module
- 6. Handle sequential data structures in Python: character strings, list.

7. Read and write to files.

Values and Attitudes

- 1. Present flawless program solutions
- 2. Work proactively on various programming challenges
- 3. Add efficiency in the approach of problem solving.

Mode de contrôle des connaissances :

Homework 20% + Test 30% + Final exam 50%

English and Communication

ECTS : 2

Volume horaire : 30

Description du contenu de l'enseignement :

This course will focus on all four language skills: reading, writing, listening and speaking. It will also include English for Academic Purposes, as well as English in Business Contexts.

The main objectives of this course will be to continue to improve the overall English level of students combined with greater awareness of academic norms and expectations.

Compétence à acquérir :

On completion of this module, students will be able to:

- 1. Produce higher-quality written essays in a more academic style
- 2. Deliver more structured and professional presentations
- 3. Use a wider range of lexical items related to risk, management & team-building
- 4. Use the passive voice and the modal perfect (particularly in the context of job satisfaction reports)
- 5. Use vocabulary pertaining to grammatical categorie

Mode de contrôle des connaissances :

Grading Criteria :

- Participation 20%
- Essay 20%
- Presentation 10%
- Final Exam 50%

Global Contemporary Issues

Global Contemporary Issues

ECTS : 2

Volume horaire : 18

Description du contenu de l'enseignement :

The course aims at addressing the major social and cultural issues of the contemporary world from both a synthetic approach in integrating the different Social Sciences and Humanities disciplines (Philosophy, Anthropology, Sociology, Political Sciences, etc.) and a genesis of current issues. In this sense, the teaching approach is an intellectual method allowing the entering of a set of data (structures and dynamics) which underlays modern society. Students will understand the transition from modernity to postmodernity and the challenges brought by the different globalization dimensions.

Compétence à acquérir :

This course provides tools to students to debate and understand issues of our globalized world, approaching them from both classical and contemporary debates around a variety of topics (freedom, human rights, racism, nationalism, science, religion, etc.) At the end of the course, the student will have improved: 1.- Critical reasoning skills. 2.- Communication skills, both oral and written. 3.- Teamwork skills. 4.- The capacity for initiative and organization. 5.- The ability to solve or seek solutions to problems, both in analysis and in synthesis. Also, upon completion of the course, students will be able to: 1.- Understand and analyze modern society. 2.- Strengthen its commitment to the defense of ethical standards. 3.- Identify, analyze and predict issues of global relevance. 4.- Improve their knowledge of classical debates of philosophy and sociology.

History of the Management of the Firm

ECTS : 4

Volume horaire : 18

Description du contenu de l'enseignement :

This course examines the evolution of the firm from the 19th to the 20th century in

- the context of:
- a) Organisation,
- b) Marketing,
- c) Production,
- d) Strategy,
- e) Accounting

Compétence à acquérir :

Learning Outcomes

On completion of this module, students will be able to:

- 1. Discuss the evolution of 'Western' management theory
- 2. Critique management theories from a historical perspective
- 3. Explain the history of industrialisation and differentiate between UK and French experience

4. Present a historical appreciation of developments in management, organizational forms, marketing, production, accounting, strategy

5. Develop a critical appreciation of management theory through application to a historical new venture creation

Courses Objectives

The course will help students to understand the evolution and the nature of the firm and management theory in the context of Organisation, Marketing, Production, Strategy, Accounting and Finance. Such an understanding will enable them to become reflective management practitioners and entrepreneurs, able to put the lessons of history to work for themselves.

Mode de contrôle des connaissances :

Grading Criteria

Group Case Study Video Presentation 25% Historical business plan and presentation 25% Final Exam 50%

Introduction to Financial Markets

ECTS : 1

Volume horaire : 12

Introduction to Financial Markets

Macroeconomics 1

ECTS : 4

Volume horaire : 30

Description du contenu de l'enseignement :

The course aims at providing the fundamental macroeconomics theories with a specific focus on the description of a general equilibrium and the consequences of economic policies on economic growth and unemployment. The IS-LM/AS-AD model will be developed in both a context of perfect and imperfect competition. Impact of economic policies will then be studied under different time horizons highlighting the degree of rigidity of prices and wages. Shock of demand (mainly fiscal policy, monetary policy and mixed policcy) and shock of supply (productivity, variation of wages) will be simulated through numerical exercises and multipliers computations. A significant portion of this course is dedicated to quantitative modelling and chart analysis as support of key economic concepts.

Compétence à acquérir :

time horizons (short, medium, long term).

By the end of this module, students will have demonstrated:

Knowledge

An ability to describe in details the interelations between the different types of markets (goods market, monetary markets, securities markets, labour markets) and to comprehend by which mechanism a general equilibrium could be achieved.
An ability to analyse the consequences of economic policies (especially monetary, fiscal and mixed policies) under different

3. An ability to compare a situation of imperfect competition and a situation of perfect competition on the determination of a general equilibrium and the implication on the efficiencies of economic policies in the two contexts.

4. An ability to understand how productivity gain and change in real wage would impact the general equilibrium, especially in the good and labour market.

Skills

5. An ability to determine mathematically a general equilibrium given the different functions and economic behaviours of economic agents.

6. An ability to compute and calculate multipliers under different time horizons for different types of policies (fiscal, monetary, mixed policies)

7. An ability to illustrate graphically a general equilibrium and how a supply or demand shock would impact this equilibrium on the different markets considered.

8. An ability to use and adapt economic concepts studied in class on new topics, situation, context.

Values and Attitudes

9. An ability to take responsibility for their studies in and outside of class and to be proactive and take initiative for further individual development.

10. An ability to work effectively, and appropriately with others in class.

Macroeconomics 2

ECTS : 4

Volume horaire : 30

Description du contenu de l'enseignement :

The course aims at presenting the fixed-prices open-macroeconomics model, also called the Mundell-Fleming model. The first part of the course considers a generic version of the model with two polar exchange rate arrangements (perfect flexibility and

hard peg) and variable degree of capital controls. The model is then used to assess the effects of economic policies in a small open economy, with a focus on the perfect capital mobility case. The second part of the course presents a two-country extension in order to explicate the role of international spillovers and to consider different exchange rate arrangements: floating, asymmetric fixed exchange rate regime vs. monetary union.

Compétence à acquérir :

By the end of this module, students will have demonstrated:

Knowledge

1. An ability to describe in detail (1) the different factors that determine the balance of payment, (2) how those factors also impact the different markets (goods market, monetary markets, securities markets, labour markets, Fx markets) (3) the mechanism by which a general equilibrium is achieved in a context of a small open economy, with floating and fixed exchange rate regime according to the Mundell-Fleming model.

2. An ability to analyse in detail (1) the consequences of economic policies (especially monetary, fiscal, mixed policies and in a case of a fixed exchange rate regime, devaluation) (2) and the role of international variables in a context of a small open economy, with floating and fixed exchange rate regime.

3. An ability to describe in detail (1) the different factors that determine the balance of payment, (2) how those factors also impact the different markets (goods market, monetary markets, securities markets, labour markets, Fx markets) (3) the mechanism by which a general equilibrium is achieved in a context of two countries in a floating and fixed exchange rate regime.

4. An ability to analyse in detail (1) the consequences of economic policies (especially monetary, fiscal, mixed policies and in a case of a fixed exchange rate regime, devaluation) in a context of two countries in a floating and fixed exchange rate regime.5. An ability to analyse in detail the consequences of economic policies (especially monetary, fiscal, mixed policies) when countries decide to form a monetary union.

6. An ability to describe the different steps of the construction of the european monenatry system and to understand the main economic theories that underlies this construction.

Skills

7. An ability to determine mathematically/graphically a general equilibrium given the different functions representing the economic behaviours/budget constraints of economic agents.

8. An ability to compute and to analyse the different multipliers for different types of policies/shocks (fiscal, monetary, mixed policies).

9. An ability to use and adapt economic concepts studied in class on new topics, situations, contexts.

10. An ability to follow the evolution of the financial markets throughout the semester and to be able to link these markets movements to macroeconomics concepts.

Values and Attitudes

11. An ability to take responsibility for their studies in and outside of class and to be proactive and take initiative for further individual development.

12. An ability to work effectively, and appropriately with others in class.

Management Accounting

ECTS : 3

Volume horaire : 18

Management Accounting

ECTS: 3

Volume horaire : 18

Mathematics

ECTS : 4

Volume horaire : 30

Description du contenu de l'enseignement :

To provide a working understanding of matrices and vector spaces for later modules to build on and to teach students practical techniques and algorithms for fundamental matrix operations and solving linear equations.

Compétence à acquérir :

By the end of this module, students will have demonstrated:

Knowledge

- 1. The understanding algebraic and geometric representations of vectors in R^n and their operations
- 2. The ability to define a linear combinaision, a dependant, independent and spanning set of vectors
- 3. The ability to define subspace of a vector space, recognize and use basic properties of subspaces and vector spaces
- 4. The ability to recognize echelon forms, to identify the number of pivots and to interprete the result
- 5. The ability to define the size of a matrix, the inverse of a matrix, the transpose of a matrix
- 6. The ability to provide a definition of the determinant and describe its properties (including the determinant of the inverse, the transpose, the determinant of a product, the determinant of an upper/lower triangular matrix)
- 7. The ability to describe how performing row operations affects the determinant
- 8. The ability to recognise a basis of the vector space Rn and describe coordinates of a vector relative to a given basis
- 9. The ability to define the Image and the Kernel of a vector space and state the rank-nullity theorem
- 10. The ability to define, give examples, and properties of the eigenvectors and eigenvalues

Skills

- 1. The ability to determine whether or not particular subsets of a vector space are subspaces
- 2. The ability to perform row operations on a matrix and solve systems of linear equations using Gauss-Jordan elimination to reduce to echelon form
- 3. The ability to perform common matrix operations such as addition, scalar multiplication, multiplication (when possible), and transposition
- 4. The ability to solve linear systems of equations using the language of matrices and solve systems of linear equations using the inverse of the coefficient matrix when possible
- 5. The ability to compute the inverse of a matrix using Gauss elimnination
- 6. The ability to compute the determinant of a two-by-two matrix or three-by-three matrix and the determinant of a matrix n x n via formula involving recuding to a determinant of size (n-1) x (n-1)
- 7. The ability to determine a basis, the dimension and the equations of a finite-dimensional space in particular the Image and the Kernel of a matrix (using the rank nullity theorem if need be).
- 8. The ability to determine the eigenvalues and eigenvectors of a matrix and use characteristic polynomials to compute eigenvalues and eigenvectors and, when possible diagonalize a matrix.
- 9. The ability to use diagonal matrix to solve systems involving sequences of vectors or power of matrices.

Values and Attitudes

- 1. Ability to articulate deductive reasoning
- 2. Rigor in reasoning and notation

Microeconomics 1

ECTS : 3

Volume horaire : 18

Description du contenu de l'enseignement :

The course aims at providing an explanation / exploration of the fundamental microeconomics theories, with a specific focus on the role of market inefficiencies and the different solutions emphasised by the theories to resolve them. Following a first chapter of consolidation of what has been taught during the end of the first year of a degree course (pure and perfect competitive framework, the existence of a general equilibrium, its pareto-efficiency leading to the first theorem of welfare economics) this course will mainly focus on market inefficiencies and will cover in detail the theory of externality and the theory of public goods.

Compétence à acquérir :

By the end of this module, students will have demonstrated:

Knowledge

1. An ability to understand how a partial equilibrium could be achieved in a decentralised economy and how public intervention could affect (or not) this equilibrium and impact surpluses of economic agents.

2. An ability to analyse the mechanism by which a general equilibrium could be achieved (in an economy with or without production) and to assess its pareto optimality.

3. An ability to understand the first and second fundamental theorem of welfare and their limits.

4. An ability to describe how game theory (and more specifically the Nash equilibrium) could be used to reconsider the theorems of welfare.

5. An ability to define the concept of externality, to understand how it generates some inefficiency in a decentralised economy and to explore the different sollutions to resolve this market inefficiency (internalisation, public intervention (Pigou), redefinition of property rights (Coase theorem)).

6. An ability to define the concept of public goods, to understand the condition of optimality for the production of this type of goods (i.e Bowen Lindahl Samuelson condition), to understand how its production generates some inefficiency in a decentralised economy and to explore the different sollutions-procedures to resolve this market inefficiency (public intervention through majority decision (Bowen vote), individualised taxation etc.).

Skills

7. An ability to determine mathematically and graphically (1) a partial equilibrium (2) surpluses (or change in surpluses) of each economic agents and (3) deadweight-losses and how they evolve due to state intervention in a context of pure and perfect competition.

8. An ability (1) to compute mathematically, (2) represent graphically a general equilibrium (with or without production), and to demonstrate whether this equilibrium is pareto optimal or not. The students is also expected to be able to interpret how this equilibrium could be impacted if some parameters were to change in a context of pure and perfect competition.

9. An ability to determine a Nash equilibrium in a game with imperfect and complete information (prisonners dilemma type of game), and the type of policies/institutions that could be implemented to converge Nash and Pareto equilibria.

10. An ability to determine mathematically and graphically (1) a partial equilibrium (2) the surpluses (or change in surpluses) for each economic agents and (3) a deadweight-loss in presence of externality (positive or negative).

11. An ability to compute mathematically and to describe graphically how (1) public intervention (2) internalisation or merger (3) a right to pollute market may impact (a) a partial equilibrium (b) the surpluses (or change in surpluses) for each economic agents and (c) the deadweight-loss for the economy as a whole in presence of externality (positive and/or negative).

12. An ability to determine mathematically and graphically (1) the condition of pareto optimality (Bowen Lindahl Samuelson conditions) (2) the surpluses (or change in surpluses) for each economic agents and (3) the deadweight-loss generated in a decentralised economy for the production of public goods.

13. An ability to compute mathematically the quantity/price of public goods under different financing assumptions such as (1) a procedure of voluntary subscription (2) a situation of non-state intervention (decentralised economy equilibrium) (3) a mechanism of individualised taxation (4) a taxation implemented through majority vote (Bowen vote).

14. To use and adapt economic concepts studied in class on new topics, situation, context.

Values and Attitudes

15. An ability to take responsibility for their studies in and outside of class and to be proactive and take initiative for furth

Microeconomics 2

ECTS : 3

Volume horaire : 18

Description du contenu de l'enseignement :

The course aims at providing an explanation / exploration of the fundamental microeconomics theories related to a situation of imperfect competition and more specifically the case of monopoly, duopoly and goods differentiation.

Compétence à acquérir :

By the end of this module, students will have demonstrated:

Knowledge

1. An ability to analyse how a partial equilibrium in a monopoly situation is determined, to understand the source of inefficiency generated.

2. An ability to analyse a partial equilibrium in a monopoly situation when the monopoly firm implement a price discrimination strategy (first and third degree) with one or two parts tariffs.

3. An ability to understand the concept of natural monopoly and to interpret the equilibrium obtained in this situation.

4. An ability to describe the different duopoly models (Cournot-Nash, Stackelberg, Bertrand), their assumptions, differences and implications.

5. An ability to describe the different non-homogeneous goods duopoly model (Launhardt Hotteling, Hotteling-Chamberlin (linear city model)), their assumptions, differences and implications.

6. An ability to analyse the model of monopolistic competition and to compare it with situations of monopoly and pure and perfect competition.

Skills

7. In a context of a simple monopoly, to determine mathematically and graphically (1) a partial equilibrium (2) surpluses (or change in surpluses) for each economic agents (3) deadweight-losses (4) how they evolve when different parameters are changing (elasticity etc.) and (5) the type of economic policy to implement to reduce the inefficiencies.

8. In a context of a natural monopoly, to determine mathematically and graphically (1) a partial equilibrium (2) surpluses (or change in surpluses) for each economic agents (3) deadweight-losses (4) how they evolve when different parameters are changing (elasticity etc.) and (5) the type of economic policy to implement to reduce the inefficiencies.

9. In a context of a duopoly, to determine mathematically and graphically (1) a partial equilibrium (2) surpluses (or change in surpluses) for each economic agents (3) deadweight-losses (4) how they evolve when different parameters are changing (elasticity etc.) through different type of model such as Cournot-Nash, Stackelberg or Bertrand model.

10. In a context of a duopoly, to determine mathematically and graphically the different strategies of domination of one firm on another firm (price limit, partial monopoly, eviction strategy).

11. In a context of a duopoly and when goods are not homogeneous, to determine mathematically and graphically (1) a partial equilibrium (2) surpluses (or change in surpluses) for each economic agents (3) deadweight-losses (4) how they evolve when different parameters are changing (elasticity etc.) through different type of model such as Launhardt Hotteling or Hotteling-Chamberlin (linear city model).

13. In a context of monopolistic competition, to determine mathematically and graphically long term and short term equilibrium, and how it differs from a simple monopoly situation or a pure and perfect competitive framework.

14. To use and adapt economic concepts studied in class on new topics, situation, context.

Values and Attitudes

15. An ability to take responsibility for their studies in and outside of class and to be proactive and take initiative for further individual development.

16. An ability to work effectively, and appropriately with others in class.

Professional Experience

ECTS : 2

Description du contenu de l'enseignement :

To validate year 2, students need to demonstrate professional experience of a minimum of 5 continuous weeks before the Final Examination Board of year 2.

Second Foreign Language

ECTS : 1

Volume horaire : 24

Description du contenu de l'enseignement :

One foreign language to pick at UCL : German, Spanish, Mandarin, Japanese, Arabic, Italian, Portuguese, Dutch

Social Sciences and Method: Political Sciences

ECTS : 2

Volume horaire : 18

Description du contenu de l'enseignement :

I. Revisiting Classical Theory "The devils Playground" (Durkheim) I. Revisiting Classical Theory, Marx Weber and Dubois II. World Migration II. Migration Theory III. Organisational ecology IV. Research Design V. Robert Merton: Social Structure and Anomie VI Durkheim Egoistic Suicide VII Hedstrom & Swedberg on Social Mechanisms VIII Granovetter on Embeddedness IX Schelling on segregation X Raymond Boudon, Beyond Rational Choice Theory

Compétence à acquérir :

The course is designed to probe deaper into the sociological study of society. Sociology focuses on the systematic understanding of social interaction, social organization, social institutions, and social change. Major themes in sociological thinking include the interplay between the individual and society, how society is both stable and changing, the causes and consequences of social inequality, and the social construction of human life. Understanding sociology helps discover and explain social patterns and see how such patterns change over time and in different settings. By making vivid the social basis of everyday life, sociology also develops critical thinking by revealing the social structures and processes that shape diverse forms of human life. Particular emphasis in this second course in sociology is on decision making processes and how interaction and interaction patterns shape our preferences when making decisions.

Social Sciences and Method: Sociology

Soft Skills & Employability ECTS: 1

Description du contenu de l'enseignement :

Soft Skills and Employability aims at supporting student's reflections about their studies and professional projects in connection with their personal life while growing as individuals, learning how to interact with others and collaborate. Its main general objective during the 3 years of the bachelor's degree is to help each student start the process of finding his/her place in the working society and envisioning him/herself working happily and contributing to the world.

During the second year, Soft Skills and Employability helps students to establish personal goals, to learn to work collaboratively, to present and explain their specificities, to develop and present a pitch, to decide what and where they want to study for their third year, and to describe how they want to contribute to the society.

Compétence à acquérir :

This is done through the development of the following three transversal competences:

- Adapting to new situations by becoming aware, experimenting with new tools or practices and using the group.
- Building one's pathway by formalising one's skills, identifying one's achievements and the areas that remain to be developed, and expressing one's values.
- Interacting and collaborating in a university context by seeing the workshop group as the beginnings of a working group, developing attentive listening to others, and by sharing tasks and roles within a group.

Statistics

ECTS : 5

Volume horaire : 36

Description du contenu de l'enseignement :

Following up on the first year module, this unit is designed to remind the students of probability concepts and common distributions, as well as introduce theory and techniques of inferential statistics.

This course aims to provide students with a range of basic estimation and statistical tools that they might need to apply in further fields of their academical studies (finance, economics, marketing, etc.). It also aims to empower them with a knowledge based critical look on the numbers they will encounter in their studies or readings, both in their academic and everyday life. Finally, for those interested, it provides a strong foundation to further quantitative courses, for example in the financial field.

Compétence à acquérir :

By the end of this module, students will have demonstrated:

Knowledge

1. Advanced knowledge of the mathematical definitions of the underlying concepts (sample space, probability measure, discrete/continuous distribution, joint/marginal distributions, random variable, PDF, CDF, Moments)

- 2. Advanced knowledge of the in-scope common distributions. (Uniform, Bernoulli, Binomial, Poisson, Exponential, Normal)
- 3. Knowledge of the sampling theory and its main theorems.
- 4. Knowledge of the various estimation methods
- 5. Familiarity with hypothesis testing

Skills

- 6. Ability to derive moments of a random variable given its distribution.
- 7. Ability to identify the right distribution suited to real-life situations.
- 8. Ability to derive PDF and/or CDF from one another.
- 9. Accurate reading of statistics tables
- 10. Ability to apply the pointwise estimation methods, using the appropriate theorems
- 11. Ability to compare estimators.
- 12. Ability to derive a confidence interval for an unknown parameter.

Values and Attitudes

13. Rigor in reasoning

14. Ability to articulate more sophisticated demonstrations

Mode de contrôle des connaissances :

The summative assessment is made of 2 mid-terms and a final exam:

- Test 1 (week 6 1.5h): Probabilities and sampling theory
- Test 2 (week 11 1.5h): Inferential statistics and Estimation

The Final exam (2h) will take place during exam week and will cover the whole course.

Bibliographie, lectures recommandées :

Core Sources

Handout designed by Laëtitia Comminges. Past papers and lectures slides will be available.

Supplementary and Secondary Sources

Probability and Statistics (4th edition) – Schaum's Outlines

Naked Statistics – Charles Wheelan

Statistics for Business and Economics, Anderson, Sweeney, Williams (11 ed).

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