Course Catalog 2023/24

Semester 1

Title of Program : as per website

Program Code	HECO - MAES
Level	Graduate
Credits and Duration	30 ECTS per semester – 60 ECTS per year – 120 ECTS for the program – Total duration 2 years or 4 semesters
Delivery Language	English

Academic Calendar

Semester 1: from 4th September and 30th November

Program Overview / Présentation de la filière

The objective of this programme is to educate the next generation of healthcare professionals to manage, explore, understand and analyse data within healthcare systems, with the ultimate goal of facilitating effective decision-making. Two core areas of focus have been identified for this degree; firstly, a need for training in cost-effective analysis to evaluate the economic efficiency of prescription drugs and related policies, and secondly, training in econometrics to explore care consumptions and care pathways in health data.

The first year teaches students about the fundamentals of data management and econometrics to effectively understand health care expenditure trends. The programme includes introductory courses such as fiscal management, accounting and financial tools, introduction to research and the economics of social insurance, amongst others.

During the second year, the courses take on a more specialised approach. Students are taught the health technology assessment (HTA) process used to examine the economic efficiency of new health technologies. The Markov models are introduced, teaching students how to achieve and interpret cost-effective analyses. Econometrics models are explored in depth and individual and interactive decisions are examined in 'Game Theory', 'Law and Economics', and 'Decisions under Health Risks'. An increased focus on data analysis, statistics and health economics is central to the second year programme.

There are abundant rewarding career opportunities on a regional and global scale for graduates of the Master in Health Economics degree. For emerging and experienced professionals, career prospects vary from senior positions in government agencies, consulting groups, and health care industries. The scope of experiential learning opportunities at Sorbonne Abu Dhabi will definitely give you a competitive edge in your career.

Learning Outcomes / Objectifs de la formation

Programme Learning Outcomes The programme learning outcomes indicate the knowledge, skills and competencies a student should be able to demonstrate by the end of the programme.	
PLO1	Students will **learn** all aspects of **health economics** aiming at **assessing** national and international **healthcare** markets and industries.
PLO2	The students will be **reviewing data analysis** techniques and **use** health data **econometrics** tools to **study** the behavior of healthcare stakeholders.
PLO3	The students will **examine health technology assessments** techniques and will learn on **taking** individual and collective cost-efficient decisions regarding a drug or a health program.
PLO4	The students will **analyze** economics and law of health insurance. They will **assess** game-theoretic features of healthcare situations and **learn** actively about health econonmics research through report and dissertation.

Program Structure / Structure de la Formation

Master 1 Semester 1			
UE	Course Name	Credits	Date
UE 1	Office Software	3	30 Oct – 10 Nov
UE 2	Choice between Economic Calculus or Advanced Contract Law	5	4-15 Sept
UE 3	Financial and Strategic Analysis	3	4-8 December
UE 4	Project Management	3	18-22 Sept
UE 5	Management and Strategy	3	26 Oct
UE 6	Advanced Internship Support	3	16-20 October
UE 7	Public Policies Assessment	3	13 to 24 November
UE 8	Quantitative Methods to Management	2	TBC
UE 9	Communication in Economics and Management I	5	23-27 Oct

Master 2 Semester 1			
UE	Course Name	Credits	Date
UE 1	Health Economics	6	23 Oct – 3 Nov
UE 2	Economics of Health insurance	6	6-17 Nov
UE 3	Collective Decisions	6	2-13 Oct
UE 4	Health Industries	3	4-15 Sept
UE 5	Insurance Law in the UAE	3	TBC
UE 6	Data analysis in HTA	6	20-30 Nov

Master 1 Semester 2			
UE	Course Name	Credits	Date
UE 1	Communication in Economics and Management II	2	TBC
UE 2	Financial and Strategic Analysis	3	2-5 Jan
UE 3	Theory and Modelling in Finance	3	15-26 Apr
UE 4	Internship	5	18-22 Mar
UE 5	Decision Making tools	3	6-17 May
UE 6	Economics Report	3	22 Jan – 2 Feb
UE 7	Data Analysis Applied to Economics	4	12-23 Feb
UE 8	Forecasting techniques	4	11-15 Mar
UE 9	Initiation to Research	3	TBC

Master 2 Semester 4			
UE	Course Name	Credits	Date
UE 1	Time Series Econometries	3	26 Feb – 8 Mar
UE 2	Panel Data Econometrics	3	29 Apr – 10 May
UE 3	Decisions in HTA	3	22-26 Jan
UE 4	Statistics in HTA	3	11-22 Mar
UE 5	Decisions Under Health Risks	4	12-23 Feb
UE 6	Health Economics Report	2	8-19 Jan
UE 7	Research seminar & dissertation	8	15-26 Apr
UE 8	Game Theory	4	29 Jan – 9 Feb

Course Details / Description des cours

Course Title & Code	Communication in Economics and Management FNBK502 22444
Instructor	Maria HASSROUNI
Date	23-27 Oct
Course Format	Daily class-one week
Credits	2
Level	Postgraduate – Master Year 1
Semester offered	Semester 1
Contact Hours	15
Course Description	This course covers the concepts and theories related to English for Health Economics and Business/Finance students at the Master's level. The course includes reading passages from authentic sources, mainly, The Abu Dhabi 2017 Report by Oxford Business Group aimed to teach critical and analytical reading and writing skills through communicative methodology and a task-based approach.
Evaluation	100% Continuous Assessment

Course Title & Code	Management and Strategy FNBK510 10067
Instructor	Thierry AIMAR
Date	2-6 Oct
Course Format	Daily class-one week
Credits	3
Level	Postgraduate – Master Year 1
Semester offered	Semester 1
Contact Hours	17.5
Course Description	This course covers the concepts and theories related to management and firms strategies. The course includes a discussion of the relationships between the various actors within the firm (shareholders, entrepreneurs, managers) and the contract structures which connect them. The ambition is to understand and realize the conditions of their efficiency in order to optimize the organizational performance. The course will include the study of the tools of the information economics, contracts theory, network economics and cognitive psychology.
Evaluation	100% Continuous Assessment

Course Title & Code	Economic Calculus ECON525 21170
Instructor	Sebastien COCHINARD
Date	4-15 Sept
Course Format	Daily class-Two weeks
Credits	5
Level	Postgraduate – Master Year 1
Semester offered	Semester 1
Contact Hours	35
Course Description	This course covers the concepts and theories related to linear regression econometrics through cross-section ordinary least squares model and cross-section logistic regression (probit) model. The course will include study of basic tools of statistics (descriptive: mean, variance,...; mathematical: random variables, most-used statistical laws). Second, they are introduced to sampling theory (theory of estimators, bias and convergence properties) and statistical inference theory (test theory, concept of p-value). Thirdly, students use hands-on applications to implement linear regressions through Stata reg command and realize interpretations (R-squared, F-test p-value, t-tests p-values, sign and intensity of coefficients); and equivalently (how making interpretations of marginal effects and their associated p-values) in logistic regressions through probit and dprobit commands.
Evaluation	100% Continuous Assessment

Course Title & Code	Advanced Contract Law ECON603 22576
Instructor	Luc GRYNBAUM
Date	11-15 Sept
Course Format	Daily class-Two weeks
Credits	5
Level	Postgraduate – Master Year 1
Semester offered	Semester 1
Contact Hours	35
Course Description	The class focuses on the main characteristics of the general rules on Health Insurance making an analysis and a comparative approach to French and European Law; with some insights in UK Law. This class is in comparative law approach; references are made to Emirati, French, EU and UK regulations. These references are based on the English translation of several UAE Laws and decrees, among them the Federal Law n° 6/2007 on the regulation of Insurance operations, the n° 5/1985 Federal Law on Civil transactions and the laws and decrees applicable to Health Insurance
Evaluation	100% Continuous Assessment

Course Title & Code	Project Management FNBK508 10071
Instructor	Jean Pierre LABRY
Date	18-22 Sept
Course Format	Daily class-one week
Credits	3
Level	Postgraduate – Master Year 1
Semester offered	Semester 1
Contact Hours	17.5
Course Description	The purpose of this course is to familiarize the group with operational / business / management views on Project Management. The group will have a total of 6 workshops, sometimes individual or by team, and it will be the occasion of sharing views on Project Management and discover the complexity of PM. I will share my professional experience with them and thanks to practical workshops, we will analyze the importance of Team Work in Project Management. The exam will be a working simulation of the shift of an assembly unit. Each student will have a designated position (HR / PM / Production Manager / Headquarter …) and will have to organize and plan the smooth operations of the full project in an international context.

Evaluation	100% Continuous Assessment
Course Title & Code	Public Policies Assessment FNBK524 22448
Instructor	Estelle AUGE
Date	13-24 Nov
Course Format	Daily class-Two weeks
Credits	3
Level	Postgraduate – Master Year 1
Semester offered	Semester 1
Contact Hours	35
Course Description	There is a general trend towards systematic assessment of public regulations and programs in every field of the economy. This course covers the concepts and theories related to economic evaluations. It proposes an overview and includes a discussion of alternative available ex-ante and ex-post economic methods thanks to readings and didactic sessions. The course includes exercises and workshops to provide both a theoretical and practical overview of the methods with examples of assessments of regulations or programs in different fields such as finance, health, transportation or education.
Evaluation	100% Continuous Assessment

Course Title & Code	Advanced Internship Support BUSI501 10136
Instructor	Racha ISLAMBOULI
Date	16-26 Oct
Course Format	Daily class-one week
Credits	3
Level	Postgraduate – Master Year 1
Semester offered	Semester 1
Contact Hours	17.5
Course Description	This course covers the concepts and theories related to identify and dealing with pressures , threats facing new employees operating in difficult economic conditions and major changes in work environment .The course includes a discussion of person relative ability to stay employed and make successful transitions for one job to the next either within the same company or another one at the circumstances or economic conditions may dictate. The course will include study of how to identify own employability skills, benefit from own strengths .
Evaluation	100% Continuous Assessment

Course Title & Code	Financial &Strategic Analysis1 FNBK500 10137
Instructor	Salem BOUBAKRI
Date	4-8 Dec
Course Format	Daily class-one week
Credits	3
Level	Postgraduate – Master Year 1
Semester offered	Semester 1
Contact Hours	17.5
Course Description	This course is an introductory courses aiming to provide tools for financial decision making. It starts by presenting the conceptual framework needed to understand how to evaluate financial investments, with a specific focus on intertemporal decisions and discounting. This basic framework is gradually improved to analyze more sophisticated financial decisions. Those decisions concern mainly how firms choose to finance their investment projets and which projects should be financed. Applications to personal finance are also made.
Evaluation	100% Continuous Assessment

Course Title & Code	Office Software COMM500 20675
Instructor	Jonathan SICSIC
Date	30 Oct – 10 Nov
Course Format	Daily class-one week
Credits	3
Level	Postgraduate – Master Year 1
Semester offered	Semester 1
Contact Hours	17.5
Course Description	This course covers the concepts and theories related to data manipulation and econometrics with their applications using Stata software. The course bridges the gap between learning econometrics and learning Stata. The course will include thorough workshop on data

	manipulation, hypothesis testing, and specification analysis. It will use practical examples showing how the theory is applied to real datasets covering a range of economic topics.
Evaluation	100% Continuous Assessment

Course Title & Code	Collective Decisions HECO503 22429
Instructor	Martine BELLANGER
Date	2-13 Oct
Course Format	Daily class-Two weeks
Credits	6
Level	Postgraduate – Master Year 2
Semester offered	Semester 1
Contact Hours	35
Course Description	This course covers the concepts and theories related to economics of decision and collective or societal choices. Students will be introduced to models of rationality and decision-making in collective decision and societal choices and to major models of non-market decision making in societal choices that are informed by economics,. We will Illustrate the class using study case along with applications of these models in health and prevention, health care management, and heath environment.
Evaluation	100% Continuous Assessment

Course Title & Code	Economics of Health insurance HECO502 22428
Instructor	Florence JUSOT
Date	6-17 Nov
Course Format	Daily class-Two weeks
Credits	6
Level	Postgraduate – Master Year 2
Semester offered	Semester 1
Contact Hours	35
Course Description	This course aims at developing students' awareness to understand economic issues and current debates in the organisation, the financing and the equity of health insurance systems. We will present some theoretical and empirical specificities of the demand for health, preventive and curative health care of the health care supply, and of the demand and supply of health insurance. Most attention will be paid on the relevance individual incentives, i.e. on the impact of price, subsidies, taxation and information on individual behaviors, in order to discuss of health system organization.

Evaluation	100% Continuous Assessment

Course Title & Code	Health Industries HECO505 22431
Instructor	Virginie PENARD
Date	4-15 Sept
Course Format	Daily class-one week
Credits	1.5
Level	Postgraduate – Master Year 2
Semester offered	Semester 1
Contact Hours	17.5
Course Description	This course covers the concepts and theories related to Health Economics. The course includes a discussion of health economy, medical industry cost-benefit analysis of healthcare systems and service quality management. The course will include study of the course adopts the perspective of managers, physicians, caregivers and administrators within all hospitals' divisions. We will also discuss the perspectives of payers and patients. The course deals with issues of both managerial effectiveness and business efficiency, with "doing the right things" as well as "doing things right". Due to increasing complexity, it is critically important that specialists acquire the competence to perceive the hospital institution as a whole, to understand its mission, and to work effectively with specialists in other functions within the hospital or its business collaborates (pharmaceutical companies, Governments, Social Security bodies, insurance companies, etc.).The course has several core premises. Strategic management involves decisions that require long-term commitments of resources that will influence hospital-wide action and performance. In order to capture the pragmatic, action-oriented nature of the strategic approach, I will teach this course through the case method, supplemented with readings, lectures and discussions.
Evaluation	100% Continuous Assessment

Course Title & Code	Health Economics HECO 500 22427
Instructor	Thomas RAPP
Date	23 Oct – 3 Nov
Course Format	Daily class-Two weeks
Credits	6
Level	Postgraduate – Master Year 2
Semester offered	Semester 1
Contact Hours	35
Course Description	The objectives of this course are to explore the main issues encountered in our health care systems, learn advanced health economics modelling tools, understand the current and future challenges faced in OECD countries' health care systems, and explore which health policies can be introduced to meet these challenges.
Evaluation	100% Continuous Assessment

Course Title & Code	Data analysis in HTA HECO 506 22432
Instructor	Isabelle DURAND ZALESKI
Date	20 Nov – 30 Nov
Course Format	Daily class-two week
Credits	6
Level	Postgraduate – Master Year 2
Semester offered	Semester 1
Contact Hours	35
Course Description	This course covers the concepts and theories related to evidence in healthcare. The course includes a discussion of what is health technology assessment (HTA) and how is it performed . The course will include study of the tools of a critical appraisal of published information and the component of HTA core models. This course is about being able to make your own opinion about new health technologies in the context of your health care system. Students should be able to understand the medical and economic information that is presented (eg by healthcare professionals, manufacturers, patients' advocates) and to analyze it. The course includes a study of the methods and tools to critically appraise medical articles and reports submitted by manufacturers for reimbursement by the national health service/ health insurance The course includes a discussion of research articles, economics evaluations, and published assessments by national HTA agencies Health care expenditures and entitlement to health care are highly debated topics at the moment, in particular with regards to very expensive innovations such as cell and gene therapy, and the objective of this course is to provide methods to sort out the issues and

	find answers.
Evaluation	100% Continuous Assessment

Year 1 semester 2

Course Title & Code	Initiation to Research
Instructor	Martial Foucault
Date	TBC
Course Format	10 days
Credits	3 ECTS
Level	M1 HECO-M1 BF
Semester offered	Semester 2
Contact Hours	35
Course Description	This course is an introduction to research designs in social sciences. It covers all the stages to formulate a research question, to craft a research paper, such as the identification of a research question, the literature review, the formulation of hypotheses, the conception of the empirical design to collect data and test the hypotheses, or the interpretation and presentation of the results. It touches on general principles in the conception of research projects, that are relevant to studies based on both qualitative and quantitative methods. The course will also pay much attention to questions of causal identification and review the current state of methods in social sciences, such as natural, quasi-natural or list experiments. As the course is primarily conceived to address issues in health economics, most examples will be drawn from research on recent advances to understand the causes and consequences of COVID-19 crisis.
Evaluation	100% Continuous Assessment

Course Title & Code	Data Analysis Applied to Economics
Instructor	Giorgio Russolillo
Date	12-23 Feb
Course Format	10 days
Credits	4 ECTS
Level	M1 HECO-M1 BF
Semester offered	Semester 2
Contact Hours	35
Course Description	This course introduces students to the use, interpretation and presentation of an appropriate selection of Multivariate Data Analysis (MDA) techniques for the analysis of quantitative and qualitative data with an emphasis on applications for business, marketing research and consumer behavior. MDA aims at "extracting knowledge from multidimensional data" by exploring, describing, visualizing and synthesizing the relationships between the observed variables when limited information is available on the domain of interest so that structural and typological factors need to be identified. The course emphasizes the design of a multivariate research project, the choice of a multivariate method, the validation of a multivariate analysis, the important issues involved in evaluating the quality of a multivariate data analysis and interpretation of the results. It aims at developing analytical problem-solving skills while presenting quantitative methods apt to support decision-making processes. Participants shall learn how to manage complex data sets with an information retrieval approach. They will learn how to use computers to calculate the statistics that are most appropriate for a problem and will work on a statistical project in teams so as to be trained on integrating the thinking of others in the interpretation and reporting of result.
Evaluation	100% Continuous Assessment

Course Title & Code	Internship
Instructor	Sebastien COCHINARD
Date	18-22 Mar
Course Format	5 days
Credits	5 ECTS
Level	M1 HECO-M1 BF
Semester offered	Semester 2
Contact Hours	17.5
Course Description	The internship is a work experience that comes at the end of the Master program, intended to help the students applying formal classroom education to “real world” work experience and help the student begin to gain valuable experience in a field of work related to International Law, International Relations and/or Diplomacy. The work assignment must be related to the Master program speciality and may be conducted within public or private sector, local or international governance, NGO’s, etc.
Evaluation	100% Continuous Assessment

Course Title & Code	Forecasting techniques
Instructor	Sebastien COCHINARD
Date	11-15 Mar
Course Format	5 days
Credits	4 ECTS
Level	M1 HECO-M1 BF
Semester offered	Semester 2
Contact Hours	17.5
Course Description	This course covers the concepts and theories related to deepening the theories and practice on Stata as seen in Economic Calculus in Semester 1. The course will include study, using Stata software, of the cross sectional regression OLS and Probit models seen previously on Stata, with an emphasis on the forecasting possibilities offered by these models. Second we extend the models towards time series and panel data regressions, with an emphasis on fixed and random effects panel data regression models. Third we build up Monte Carlo simulations techniques such as bootstrap or jacknife with the help of Stata, to develop further forecasting techniques in the setting of restricted size sample data.
Evaluation	100% Continuous Assessment

Course Title & Code	Theory and Modeling in Finance
Instructor	Thomas Rapp
Date	15-26 Apr
Course Format	10 days
Credits	3 ECTS
Level	M1 HECO-M1 BF
Semester offered	Semester 2
Contact Hours	35
Course Description	This course covers the concepts and theories related to individuals' savings and investment behaviors. The course includes a discussion of the theories and models applied to understand and predict investment behaviors. The course will include study of econometric models used to predict saving behaviors.
Evaluation	100% Continuous Assessment

Course Title & Code	Communication in banking and finance 2
Instructor	TBC
Date	TBC
Course Format	5 days
Credits	2 ECTS
Level	M1 HECO-M1 BF
Semester offered	Semester 2
Contact Hours	15
Course Description	This course covers the concepts and theories related to English for Health Economics and Business/Finance students at the Master's level. The course includes reading passages from authentic sources, mainly, The Abu Dhabi 2017 Report by Oxford Business Group aimed to teach critical and analytical reading and writing skills through communicative methodology and a task-based approach.
Evaluation	100% Continuous Assessment

Course Title & Code	Financial and Strategic Analysis 2
Instructor	Salem Boubakri
Date	8-12 Jan
Course Format	5 days
Credits	3 ECTS
Level	M1 HECO-M1 BF
Semester offered	Semester 2
Contact Hours	17.5
Course Description	This course is the second part of the course Financial & Strategic Analysis 1. It deepens the concepts studied in the first part of the course and introduces new concepts about the strategic choices of firms concerning their financing choices. Attendance to the first course is mandatory.
Evaluation	100% Continuous Assessment

Course Title & Code	Decision Making Tools
Instructor	M. Pauwels and M. Bono
Date	22 Jan – 2 Feb
Course Format	10 days
Credits	3 ECTS
Level	M1 HECO
Semester offered	Semester 2
Contact Hours	35
Course Description	This course covers the concepts and theories related to Health Economic tools such as cost benefit analysis, cost utility analysis and their relevance within Healthcare and exceptions such as the role of price. Looking at areas and use of opportunity cost within data collection. The aim of economics is to ensure that the chosen activities have benefits which outweigh their opportunity costs OR the most beneficial activities are chosen within the resources available.
Evaluation	100% Continuous Assessment

Course Title & Code	Economic Report
Instructor	Yannick PEREZ
Date	6-17 Apr
Course Format	10 days
Credits	3 ECTS
Level	M1 HECO
Semester offered	Semester 2
Contact Hours	35
Course Description	The objective of the course is to help the students to build their first economic report in health economics. By doing so, the students will learn on a concrete example how to include their contributions in the existing body of literature. The course will combine lecture on literature review methodology, on a collection of up-to-date academic works and on writing tips for economic reports. The course will also include multiple research exercises in a step-by-step approach toward the writing of an full economic report.
Evaluation	100% Continuous Assessment

Course Title & Code	Quantitative Methods to Management
Instructor	Sebastien COCHINARD
Date	15-19 Apr
Course Format	10 days
Credits	5 ECTS
Level	M1 HECO-M1 BF
Semester offered	Semester 2
Contact Hours	35
Course Description	This course covers the concepts and theories related to quantitative methods for understanding management decisions in various competitive environments. The course will include study of cost functions from a microeconomic perspective, including the Minimum Efficient Scale for long-term average costs of a firm. In a first part, perfect competition is assessed through marginal pricing rule for the manager under classical assumptions of atomicity, homogeneity, a.s.o. Scrutiny is put over calculus of rentability threshold and shutdown threshold in the short-term equilibrium. Further, we examine the influence of the number of competitors and compute the optimal size of the market in long-run equilibrium. In a second part, we develop monopolist manager's tradeoff between volume and price strategies and develop the mark-up rule calculus. In a third part, basic game-theoretic tools are developed in order to tackle the oligopolistic environment, with an emphasis on Cournot model with quantities as Nash strategies.
Evaluation	100% Continuous Assessment

Year 2 semester 2

Course Title & Code	Decisions in HTA
Instructor	Matteo RUGGERI
Date	22 Jan – 2 Feb
Course Format	5 days
Credits	3 ECTS
Level	M2 HECO
Semester offered	Semester 2
Contact Hours	17.5
Course Description	This course covers the concepts and theories related to evidence in healthcare. The course includes a discussion of what is health technology assessment (HTA) and how is it performed . The course will include study of the tools of a critical appraisal of published information and the component of HTA core models. This course is about being able to make your own opinion about new health technologies in the context of your health care system. Students should be able to understand the medical and economic information that is presented (eg by healthcare professionals, manufacturers, patients' advocates) and to analyze it. The course includes a study of the methods and tools to critically appraise medical articles and reports submitted by manufacturers for reimbursement by the national health service/ health insurance The course includes a discussion of research articles, economics evaluations, and published assessments by national HTA agencies
Evaluation	100% Continuous Assessment

Course Title & Code	Game Theory
Instructor	Sebastien COCHINARD
Date	29 Jan – 9 Feb
Course Format	10 days
Credits	4 ECTS
Level	M2 HECO
Semester offered	Semester 2
Contact Hours	35
Course Description	This course covers on one hand the concepts and applications seen in Quantitative Methods of Management in 1st year of Health Economics Master towards one-shot and repeated games with incomplete information (on one side, on two sides) and their related equilibria, stressing the importance of Folk Theorem-like litterature and, on the other hand, towards definition of Markov equililbria in extensive-form and stochastic games. In one-shot games with incomplete information, students will learn how to compute pure and mixed "Bayesian equilibria" both in finite and "compact" games (we mean here games whose strategies sets have real compact ranges such as in Cournot or Bertrand settings), in the context of applications concerning for instance patientphysician relationship with incomplete information on both sides. In repeated games with incomplete information, students will learn how to deal with revealing vs. non-revealing long-term strategies, emphasis being put on conditions for existence of uniform equilibrium strategies, with examples taken from inspection games litterature in the context of efficient vs. non-efficient public private engagement (PPE) for health services delivery. In stochastic games, students will learn how to deal with concepts of value, optimal strategies and Nash equilibrium in the discounted vs. undiscounted cases, two-person vs. more-than-two person cases, zero-sum vs. non-zero-sum cases. Applications concerning stochastic games with positive spillovers in the setting of vaccinal therapies are given.
Evaluation	100% Continuous Assessment

Course Title & Code	Health economics report
Instructor	Benedicte APOUEY
Date	8-19 Jan
Course Format	10 days
Credits	2 ECTS
Level	M2 HECO
Semester offered	Semester 2
Contact Hours	35
Course Description	The main objective of the course is to present important concepts in applied microeconomics and to do empirical work in health economics. We will investigate the following health economics concepts and theories: the measurement of health state and status, the correlates of and the factors influencing individual health, health behaviors, access to health care, and health care use. From a methodological point of view, we will employ descriptive statistics and econometric techniques (linear and nonlinear models, interaction terms) and discuss methods to solve the endogeneity issue (e.g. instrumental variables and randomized control trials).We will use three datasets to study different topics: - The Afrobarometer data (Africa), to study the factors that influence access to health care and health care use in Africa. - Indian data, to explore the link between information and a health-related behavior. - The Survey of Health, Ageing and Retirement in Europe (SHARE), to study some factors influencing health. Students will get hands-on experience with using these methods and data. The course includes a discussion of the limitations of models, techniques, and empirical academic papers. Students will write a report in health economics that studies the factors influencing health, exploiting the SHARE data (or the Afrobarometer data). This course should be helpful to students during the preparation and writing of their master thesis.
Evaluation	100% Continuous Assessment

Course Title & Code	Decisions under health risks
Instructor	Claudia SENIK
Date	12-23 Feb
Course Format	10 days
Credits	4 ECTS
Level	M2 HECO
Semester offered	Semester 2
Contact Hours	35
Course Description	This course covers the concepts and theories related to Behavioral Economics and its application to Health. Behavioral economics is a branch of economic analysis that aims at describing people's choices and decisions that derive from a series of biases and anomalies, which contradict the usual hypotheses of economic rationality. At the crossroad of economics and psychology, this method sheds light on certain paradoxical choices and behavior in the domains of consumption, saving, insurance and health. It leads to a new type of management method called "Nudge management". The latter makes use of the aforementioned biases in order to orientate people's behavior in their best interest. In contrast with classical economic policy, Nudge management relies on alternative motivations rather than on prices and regulation. This course will present the general principles and hypotheses of Behavorial economics and then apply them to the issues of health behavior.
Evaluation	100% Continuous Assessment

Course Title & Code	Statistics in HTA
Instructor	Pauline CHAUVIN
Date	11-22 May
Course Format	10 days
Credits	3 ECTS
Level	M2 HECO
Semester offered	Semester 2
Contact Hours	35
Course Description	An increasing part of the national wealth being dedicated to health care expenditures in most countries across the world, publicly funded health care systems and private health care insurances are urged to implement processes to formulate priorities for health investments and for reimbursement decisions. This course covers the concepts associated with the economic evaluation of health care programs. It includes a discussion of how cost-effectiveness and decision modeling can be used to provide recommendations for prioritization of health care programs or reimbursement decisions. Lab computer exercises with Excel give the opportunity to student to gain a more concrete appreciation of these underlying concepts.
Evaluation	100% Continuous Assessment

Course Title & Code	Panel Data Econometrics
Instructor	Nicolas SIRVEN
Date	29 Apr – 10 May
Course Format	10 days
Credits	3 ECTS
Level	M2 HECO
Semester offered	Semester 2
Contact Hours	35
Course Description	This course covers the theoretical and practical aspects of panel data econometrics. Each session comprises a theoretical approach and an application by the students on the software Stata. The course includes a tutorial on how to handle longitudinal datasets from macro and microeconomic sources. The students are required to build their working datasets from given sources, estimate the appropriate model and discuss the economic implications of the model estimates. The basic panel data models are discussed in relation to the basic OLS approach (e.g. fixed vs random effects), several tests are reviewed to implement statistical inference approaches, and the dynamic models are discussed in the last part of the lecture. The use of World Bank data for several countries provides elements of adaptation that take into account the United Arab Emirates. A lexical illustration between the content and the Emirati national identity is thus developed during the lecture. In the detail, we discuss the take-off of economic development in the UAE in the 1970s and discuss the evolution and the relative performance of the healthcare system in the country.
Evaluation	100% Continuous Assessment

Course Title & Code	Time series
Instructor	Salem Boubakri
Date	26 Feb – 8 Mar
Course Format	10 days
Credits	3 ECTS
Level	M2 HECO
Semester offered	Semester 2
Contact Hours	35
Course Description	The real world of economics, business, and government is a complicated and messy place, full of competing ideas and questions that demand answers. This course of Advanced Econometrics helps us to find quantitative answers to important quantitative questions. Indeed, econometrics opens a window on our complicated world that lets us see the relationship on which people, businesses, and government base their decisions. This course provides a selective overview of some of the most important of these issues. The course includes a discussion focused on the practical implementation of the different techniques of regression and forecasting, including specific applications in health economics, rather than formal proofs and theories. This course assumes that the student has had a course in probability and statistics. Course Outline: - Introduce econometrics and stress the importance of providing quantitative answers. - Introduce regression with a single regressor and OLS estimation. - Introduce various modern tools for analyzing time series regressions such as unit root tests - Discuss the use of time series data to estimate causal relations. - using regression model for forecasting
Evaluation	100% Continuous Assessment

Course Title & Code	Research seminar & dissertation
Instructor	Mohamed Kayal
Date	15-19 Apr
Course Format	10 days
Credits	8 ECTS
Level	M2 HECO
Semester offered	Semester 2
Contact Hours	35
Course Description	This course offers "An overview of research methodology including basic concepts employed in quantitative and qualitative research methods. Includes computer applications for research. This course introduces research methods as they apply to the higher education field of study. FNBK523 provides a macroperspective of the methods associated with conducting scholarly research in all follow-on core, elective, quantitative and qualitative courses; and the Master dissertation.
Evaluation	100% Continuous Assessment

Course Title & Code	Insurance Law
Instructor	Luc Grynbaum
Date	13-24 May
Course Format	10 days
Credits	3 ECTS
Level	M2 HECO
Semester offered	Semester 2
Contact Hours	35
Course Description	The class focuses on the main characteristics of the general rules on Insurance law and Health Insurance in the UAE and a comparison between UAE Law, French Law, EU directives and UK Law. Most of the references are made to Emirati Federal Law. Theses references are based on the English translation on UAE Federal Law, French Law, EU Directives and UK Law. The purpose of the class is to introduce students to the main issues involved by Health Insurance law. It aims at giving them an understanding of the main forces that shape Health Insurance law. Some Insights will be given to Health insurance policies.
Evaluation	100% Continuous Assessment

Permanent Academic and Administrative Staff

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