

DISCIPLINES IN ENGLISH

FALL SEMESTER
2017.2



**EARTH AND
EXACT SCIENCES**

LOGISTICS AND SUPPLY CHAIN

*Graduate Program in Industrial Engineering and
Computer Systems — Prof. Iara Tammela*

This course covers the fundamental concepts, principles and tools associated with logistics and supply chain management. Topics include supply chain integration, logistics network configuration, inventory management, strategic alliances, procurement and outsourcing, warehousing, quality management, key performance measures, global logistics and the impact of information technology on supply chain management. Global implications will be discussed throughout the course.

CLIMATE CHANGE DYNAMICS AND SPECTRAL ANALYSIS OF CLIMATE DATA

Graduation Program in Biosystem Engineering — Prof. Andre Belem

There are currently considerable concern about how the atmospheric CO₂ increase will affect the climate in the future. However, to better understand the computer simulations used to predict future climate change and determine the uncertainties of climate models, it is also important to understand the past climate changes. The purpose of this course is to examine the climatic records in different time scales, combining paleoceanographic and paleoclimatic data, geochemical proxies and indicators of environmental variability of the oceans, atmosphere, ice, land surfaces and vegetation, and how they relate to rebuilt changes from an equilibrium model with the energy supply from the sun. An important topic that we will cover, for example, concerns the reasons for atmospheric CO₂ changes in the past, and how they influenced the global climate. One of the main results of this course will be a firm understanding of the physical, chemical and biological processes that control the Earth's climate and how they may interact to modulate climate change in the future.

APPLIED MICROPALEONTOLOGY

Graduate Program in Geochemistry — Prof. Catia Barbosa

1. Introduction to benthic foraminifera
2. Environmental Applications of benthic foraminifera in deep sea
3. Benthic foraminifera as environmental changes indicators: marginal marine shelf and upper slope environment
4. Foraminifera of intertidal environments as paleoenvironmental indicators and current environmental changes
5. Environmental Applications of planktonic foraminifera
6. Paleoceanographic Applications: planktonic Protozoa -Radiolarians and Foraminifera
7. Environmental Applications of diatoms
8. Environmental Applications calcareous nannofossil
9. Environmental Applications of dinoflagellate cysts and acritarchs
10. Environmental applications of pollen analysis
11. Statistical treatments based on the ecology of microfossils groups



**HEALTH
SCIENCES**

GENERAL PATHOLOGY: PROBLEM-BASED LEARNING

Graduate Program in Pathology — Prof. Karin Soares Cunha

This course aims:

- To encourage the students to discuss General Pathology in English through Problem Based Learning strategy;
- To allow the students to deepen their knowledge in specific topics of General Pathology.

SEMINAR IN CARDIOMETABOLISM AND CHRONIC KIDNEY DISEASE

Graduate Program in Cardiovascular Sciences — Prof. Denise Mafra

Discussion of papers on current issues involved in the pathophysiology of major complications affecting chronic kidney disease patients.



**APPLIED SOCIAL
SCIENCES**

THE WELFARE STATE IN BRAZIL

Graduate Program in Economics — Prof. Fábio Waltenberg

After a revision of basic theoretical concepts and tools which are useful to examining social policies in a systematic and informed way, the focus turns to analyses of the current situation of selected aspects of a few social policy areas in Brazil. Each year, three or four topics are studied. Contents: Part 1 – Reviewing theoretical tools and concepts (2-3 lectures): (1) Basic concepts; definitions and objectives of a welfare state; (2) Insurance. (3) Political and economic justifications for social policies. Part 2 – Social policies in Brazil: Analyses of selected topics (10-11 lectures): (4) School education: Teacher supply. (5) Health care: Funding of the public subsystem. (6) Social security (consumption smoothing): Retirement rules. (7) Social security (insurance): Unemployment benefit and severance pay. Part 3 – Concluding lecture: (8) Why a welfare state in Brazil? Which welfare state?

ECONOMICS AND BEHAVIOR

Graduate Program in Economics — Prof. Roldan Muradian

This course aims at familiarizing the students with the contemporary literature, discussions and debate around key subjects in the fields of behavioral and experimental economics. It will address subjects at the interface between economics, psychology and sociology, and therefore it will adopt an interdisciplinary approach. The course will show different perspectives and recent empirical insights about a broad range of issues, such as the behavioral implications of money, (dis)honesty, fairness, risk attitudes, subjective evaluation of well-being, loss aversion, psychological biases and decision errors, motivations and monetary incentives, actions and preferences, value assessment and behavioral patterns in voluntary market payments.

FINANCIAL ECONOMETRICS

Graduate Program in Economics — Prof. Alfonso Valdesogo

This course of financial econometrics will mostly cover concepts, techniques and tools applied in quantitative risk management. The focus will be on the statistical modeling of financial time series (asset prices and returns) with an emphasis on modeling volatility and correlation for quantitative risk management. This course covers econometric and statistical methods as applied to finance: 1. Overview of risk concepts; 2. Risk measures; 3. Empirical properties and stylized facts of asset returns; 4. Probability distributions and statistical models for asset returns; 5. Volatility and correlation modeling; 6. Estimation of risk measures; 7. Factor risk models for asset returns; 8. Systemic risk.

ADVANCED TOPICS IN GAME THEORY AND STRATEGIC BEHAVIOR

Graduate Program in Economics — Prof. Miguel Martinez

This course hinges on game theory as a theoretical tool to understand economic behavior and organization. It aims to convey both the unity and the generality of game theory. Thus, the first part of the course will discuss the main solution and concepts of in noncooperative and game theory. We will cover a wide range of strategic interaction situation, from traditional oligopoly models as the “two-sided markets” to bargaining with imperfect information. We will develop the logic for concepts such as the revelation principle, strategy-proof social choice, and implementation theory. The students are expected to have knowledge of game theory and mathematical programming. In the end of this course, the student is expected to be able to develop advanced formal models to analyze incentives and strategies in a wide range of industries.

ATTENTION:

THIS DISCIPLINE
WILL BE OFFERED
ONLY DURING
NOVEMBER AND
DECEMBER.

COMMUNICATION AND AESTHETIC EXPERIENCE

Graduate Program in Communication — Prof. Benjamim Picado

Theoretical and historical approaches to the intersections between philosophical aesthetics and the experience of communication in contemporary culture: theoretical and analytical perspectives of the criticism of aesthetic expressions in the field of communication studies. The aesthetic dimensions of communicational processes in contemporary media culture.

THE SETTLEMENT OF DISPUTES BETWEEN THE PUBLIC ADMINISTRATION AND PRIVATE COMPANIES BY ARBITRATION UNDER BRAZILIAN LAW

Graduate Program in Administrative Justice — Prof. Sérgio Pauseiro

1- History of Arbitration; 2 - Ethics in Arbitration; 3- The Settlement of Disputes between the Public Administration and Private Companies; 4 - Arbitration in Environmental Law; 5- Law and Arbitration of Oil and Gas Disputes in Brazil; 6 – Arbitration of Corporative Law Dispute in Brazil.



**MULTIDISCIPLI-
NARY STUDIES**

ASL – AMERICAN SIGN LANGUAGE

Graduate Program in Diversity and Inclusion — Prof. Ana Campello

This discipline will discuss Deaf Identity and Culture, American Sign Language History, Communities of users of American Sign Language, also including lessons in sign language, recognition signage space and recognition of the elements of the signs. The student will know the basics of the American Sign language structure, how to start a conversation through American sign language with deaf people, including other signs from outside the university environment.

SCIENTIFIC LITERATURE IN DIVERSITY AND INCLUSION

Graduate Program in Diversity and Inclusion — Prof. Helena Castro

This discipline aims to create a space to use English orally by discussing short articles and/or recent films and interviews involving Diversity and Inclusion topics. Among other materials, those that involve relevant issues regarding our research lines are of preference. The dynamics will be varied, including simulations of situations such as interviews and presentations at international conferences and events.

INTERNATIONAL COOPERATION OFFICE - UFF

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