



Universidade Federal Fluminense



Disciplines offered in English Fall Semester



SUPERINTENDÊNCIA
DE RELAÇÕES
INTERNACIONAIS

INTERNATIONAL
COOPERATION
OFFICE

Economics of Organizations

Graduate Program in Economics

Prof. Michelle Hallack

Course Description

The purpose of this course is to introduce students to the economic analysis of organizations. We develop an understanding of when markets can solve the problems of coordinating activities and motivating individuals; and, when markets are less successful, how business organizations and special contractual relationships emerge as alternative institutions for allocating resources. We will develop a theoretical framework and apply it to analyze real-life case studies in the Brazilian industry.

Financial Econometrics

Graduate Program in Economics

Prof. Alfonso Valdesogo

Course Description

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*

Long-Term Growth and Macroeconomic Policy

Graduate Program in Economics

Prof. Carmem Feijó

Course Description

The aim of the course is to discuss heterodox and orthodox approaches to long-term growth, emphasizing the connections between short-term and long-term economic policies. In the heterodox approach, potential output is endogenous to demand, which implies that the short-term evolution of the economy influences its long-term performance. In the Keynesian-structuralist theoretical tradition, economic growth is understood as an evolving process that unfolds in time, and under this analytical perspective, short-term economic policies should aim at sustaining economic growth rates. This theoretical approach to the process of long-term growth calls for a broader view to macroeconomic policies in which long-term economy, that enhances structural change, and short-term policies, that sustain productivity growth, can be combined.

In the orthodox approach, potential output is exogenous, depending on institutional factors and change slowly according to the incorporation of technical progress. In this theoretical context, short-term economic policy should preserve perfect predictability of private expectations, being mostly concerned to implement stabilization policies. Based on the assumption of the superiority of free market forces to efficiently allocate scarce resources, a short-term rules-based economic policy should be the main goal of economic authorities.

The Complexity Approach to Economic

Graduate Program in Economics

Prof. Miguel Vazquez

Course Description

This course introduces the conceptual framework of complexity economics. We begin by asking: how might agents react to conditions that they jointly create? Considering the possibility of novel responses assumes implicitly non-equilibrium, which in turn implies a perpetually evolving system. That leaves us with the question: what kind of theory can we develop? We will describe the economy as an ongoing 'computation', evolving procedurally in a series of events – it will be algorithmic.

Welfare States in Comparative Perspective

Graduate Program in Economics

Prof. Celia Kerstenetzky

Course Description

Against the backdrop of political-economy analyses of the nature and dynamics of inequality and poverty in market economies, the course aims to review an array of public policies that have responded to the documented trends of the last three decades, as these have variously been undertaken in developed and developing countries alike. The policy responses are worked out from within the conceptual and theoretical framework of welfare regimes and welfare state regimes. The Brazilian welfare state – its formation and development up to the contemporary era – will be discussed under this light.

Latin American Politics

Graduate Program in Political Science

Prof. Eduardo Gomes

Course Description

Latin America and its modernization since the 1930s. Import substitution industrialization, and the “Triple Alliance”: State, local capital and multinationals. Clientelism, authoritarianism, and populism. The developmentalist model. Democracies and dictatorships. The crisis of Import Substitution, and the new authoritarian regimes. The neoliberal reforms. The processes of redemocratization. The neo developmentalism, and the current challenges to sustainable development.

New Trends on Material and Nano Science

Graduate Program in Physics

Prof. Maria Vaz and Prof. Andrea Latgé

Course Description

We will offer seminars and mini-courses concerning new trends on science that may change from semester to semester depending on the experience of the researchers visiting our University. The main goal is to present short views on science and update topics on Nanoscience, Magnetism, and other themes on science that may interest a large number of students from different graduate programs and even final level undergraduate students.

Climate Change Dynamics and Spectral Analysis of Climate Data

Graduate Program in Biosystem Engineering

Prof. André Belém

Course Description

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.

General Pathology: Problem-based Learning

Graduate Program in Pathology

Prof. Karin Cunha

Course Description

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

Scientific Literature: Exploring Science From The English Perspective I

Graduate Program in Science and Biotechnology

Prof. Helena Castro

Course Description

This discipline has the purpose to create a space to use English orally by discussing short articles and / or recent films and interviews involving science and biotechnology 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.

Seminars in Cardiometabolism and Chronic Kidney Disease

Graduate Program in Cardiovascular Sciences

Prof. Denise Mafra

Course Description

Chronic kidney disease (CKD) patients have several risk factors for cardiovascular disease (CVD), and the rate of cardiovascular mortality is extremely high in these patients. This discipline considers the discussion about studies in nephrology field and CKD complications, especially inflammation, oxidative stress and protein energy wasting, with emphasis on nutritional parameters and cardiovascular mortality.

ASL: American Sign Language

Professional Master Course in Diversity and Inclusion

Prof. Ana Regina Souza e Campello

Course Description

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

Professional Master Course in Diversity and Inclusion

Prof. Helena Castro

Course Description

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.

Metaphor in Language and Thought

Graduate Program in Language Studies

Prof. Solange Vereza

Course Description

The course aims to introduce the various theories concerning metaphor, from Aristotle to the contemporary cognitive-discursive tendencies. Examples of different analytical perspectives will illustrate the concepts presented. The presence of metaphorical language in the use of everyday language, in various genres; news editorials, headlines, scientific articles, internet memes, among others, will also be explored.

Methodology of Sociolinguistics

Graduate Program in Language Studies

Prof. Peter Rosenberg

Course Description

The course is on methodology of sociolinguistics: quantitative and qualitative methods, i.e. corpus linguistic data collection, survey, interview, attitude measurement, network analysis, text and discourse analysis. An introduction into the methodology of sociolinguistics will be presented and illustrated by case studies in sociolinguistic fieldwork (sociolinguistics, regional vernacular analysis, urban language research, contact and minority linguistics, migration linguistics). Participants will have to prepare texts and apply methodological instruments on subjects of their own research.

Pop Nightmares: Dystopian and Post-Apocalyptic Comics

Graduate Program in Literature Studies

Prof. André Cardoso

Course Description

*Recently, there has been a consistent production of graphic narratives portraying dystopian societies. Some of these, such as Alan Moore's *V for Vendetta*, have inspired a number of social protests, and they are a relevant means to understand the ways we make sense of our reality. The aim of this course is to examine the representations of dystopian and post-apocalyptic societies in comics published from the 1980s to the present day. Our discussion will focus on the issues of individual freedom, collective visions of society, and the potential of mass culture to engage political action.*

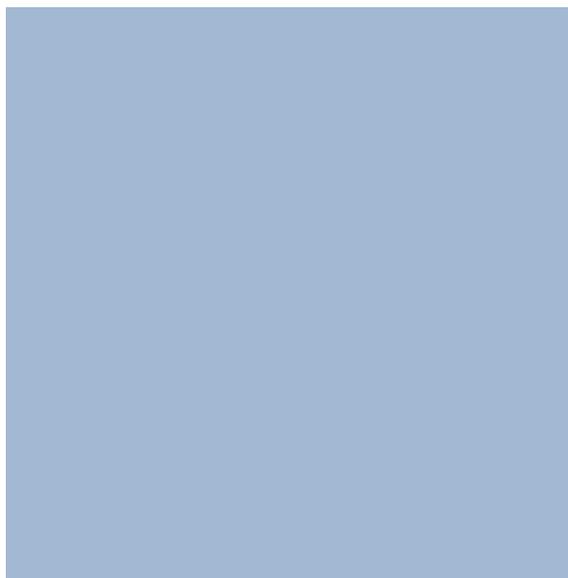
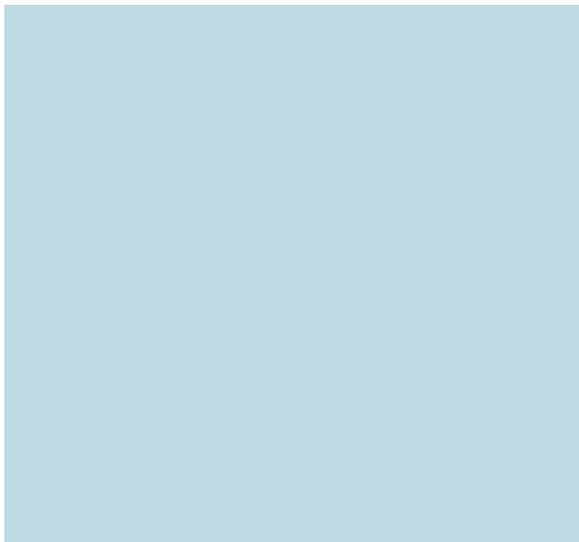
Theories of Narrative

Graduate Program in Communication

Prof. Benjamim Picado

Course Description

Narrative forms and textual structures: history, narrative and narration. Narrative structures: functions, actions and stories; myth and narrative forms. Temporal structures of narration: order, duration and frequency; understanding and expression of time in narrative forms. Narrative modes: mimesis and diegesis. Narrative voices. Narrative, fiction and reality. Pragmatic approaches to narrative: understanding narrative texts. Different semiotic materials of narrative discourse.



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