

Pró-Reitoria de Pós-Graduação
Internacionalização da Pós-Graduação
Oferta de disciplinas em língua estrangeira no 1º semestre de 2012

Nome do Programa	Disciplina	Ch/Cr	Idioma	Ementa - na língua Estrangeira que será ofertada	Endereço Eletrônico para Informações
Ciências Biológicas – Fisiologia e Farmacologia	Tópicos Avançados em Fisiologia B Prof. Cândido	15/01	Inglês	Tema: Workshop in Exercise and Autonomic Regulation	pgfisfar@icb.ufmg.br
Administração	Seminário em Finanças: Management of high-tech companies: the case of biotechnology	30/02	Inglês	Introduction to Entrepreneurship and Innovation issues, defining entrepreneurship and innovation, innovation and economic advance, embracing innovation through entrepreneurship and economic growth, the seeds of innovation, innovation over time and its historical context, entrepreneurship and innovation in small manufacturing firms, a network view of innovation and entrepreneurship.	cepead@face.ufmg.br
Biologia Celular	Special Topics in Cell Biology III – Confocal Microscopy Prof. Gregory Thomas Kitten	45/03	Inglês	High resolution microscopic imaging of cells and tissues has grown enormously over the past decade and is now one of the most common methods being utilized in publications appearing in the top-tier biological research journals. One of the most widely used methods is laser scanning confocal microscopy, a method which allows researchers to precisely localize, identify and quantify specific cellular components such as proteins, carbohydrates and organelles in three dimensions, as well as investigate a variety of cell processes, such as calcium fluxes, in live cells and tissues. This course is designed to	http://pgbiologiacelular.icb.ufmg.br/ pg-mor@icb.ufmg.br

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				<p>provide a basic theoretical understanding of the various types of confocal microscopy and fluorescent probes and how each of them can be best used to obtain data. Several lectures will be devoted to the morphometric and quantitative analysis of the digital images using image processing and analysis software programs. In addition, students will participate in hands-on training sessions in which they will learn how to analyze material using the confocal microscopes present in ICB. At the end of the course, students should be able to independently design experiments and collect data using a confocal microscope system and then efficiently analyze and interpret the results.</p>	
Ecologia, Conservação e Manejo da Vida Silvestre	<p>Tópicos Especiais em Ecologia, Conservação e Manejo da Vida Silvestre IIII</p> <p>“Freshwater biomonitoring and restoration: principles, concepts and methods”</p>	60/04	Inglês	<p>This 2 week long discipline will provide theoretical and practical grounding in the concepts and methods behind the development and implementation of European Water Framework Directive (WFD) compliant freshwater biomonitoring and river restoration measures.</p> <p>Theoretical lectures will cover the history of biomonitoring in Europe leading up to the development and implementation of the WFD, the concept of holistic river</p>	ecmvs@icb.ufmg.br

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				basin based management, hierarchical structure in river systems, establishing typology and reference conditions, the concept of ecological status (biological elements, physicochemical and hydromorphological elements of support), and the use of metrics to express environmental quality. The basic concepts of river restoration, environmental flow and natural engineering techniques will also be given. Some theoretical lessons will be dedicated to discussing key papers in the area of freshwater biomonitoring and "hot topics" such as climate change effects and adaptation/mitigation measures. Practical sessions will give students "hands on" experience of sampling protocols, laboratorial procedure, the use of taxonomic keys and the calculation of biological and hydromorphological indices and metrics to express ecological quality.	
Engenharia Metalúrgica, Materiais e de Minas	Tópicos Especiais B (Principles in Aqueous Processing - Interfacial equilibria and electrochemical kinetics in aqueous processing)	30/2	Inglês	Fundamental interfacial and electrochemical phenomena associated with aqueous processing of minerals and materials <i>I. INTERFACIAL EQUILIBRIA</i> - Ions in Solution, Models of the Electrified Interface, Surface Ionization Equilibria, Specific Adsorption and Surface	cpgem@demet.ufmg.br

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				Complexation. <i>II. ELECTROCHEMICAL KINETICS: PRINCIPLES</i> - Electron Transfer at Metal Electrodes, Redox Electrodes. <i>III. ELECTROCHEMICAL KINETICS: DISSOLUTION AND ELECTRODEPOSITION</i> - Mixed Potentials, Dissolution Kinetics – Metal Electrode Model, Kinetics and Mechanism of Electrodeposition.	
Engenharia Elétrica	Optronic Systems Prof. Davies W. de Lima Monteiro	60/04	Inglês	Microsensor-fabrication technology. Photodetection. OPto-electrical signal transduction. Photovoltaic solar cells. Image sensors. Technical optics and adaptive optical systems. Electronic interface for optical sensors. Devices, circuits and systems design.	http://www.ppgee.ufmg.br/grade.php
	Introduction to Stochastic Processes Prof. Eduardo Mazoni A. M. Mendes	60/04	Inglês	This is an introductory course in Stochastic Processes. The purpose is to introduce students into a couple of stochastic process which are used as modeling tools in diverse fields of applications. To this end, the first half of course the basics concepts of probability are reviewed. In the second half the course covers Gaussian, Poisson and Markov (Chains) Processes.	http://www.ppgee.ufmg.br/grade.php
Estudos Literários	Seminário de projetos de pesquisa em literaturas de expressão inglesa LIT803 -	60/04	inglês	This course will introduce participants to the characteristics and various approaches to designing and developing	www.lettras.ufmg.br/poslit

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	turma U – Prof. Luiz Fernando Ferreira Sá			research projects in the area of literatures in English. Students will gain hands-on experience in various research methods while enhancing their own research project related to their subject of interest.	
	Seminário de tópico variável de literatura em inglês: literature and crime - LIT846 - turma U – Prof. Júlio Cesar Jeha	60/04	inglês	The relationship between literature and crime, from the origins of literature in English to its most recent texts.	
	Seminário de Literatura e outras artes: The Performative Turn: Installation art and Baudelairean modernity – LIT876 - turma U – Prof. Lauren Weingarden	60/04	inglês	In this class we will investigate the participatory turn in installation art as part of a trajectory from Baudelairean modernity to 21 st century postmodernity. In his 1862 essay “The Painter of Modern Life,” Baudelaire defines modernity as fleeting, transitory and fragmentary. Baudelaire and Baudelairean artists sought to put the viewer at the center of the pictorial space so as to engage him/her in the transitory experience that initiated the artist’s creative response to modernity. Baudelairean modernity initiates a breakdown of boundaries between art and life and between high art aesthetics and popular culture, which continues in the work of installation artists. In the sites of installation art, the spectator is compelled to extend--rather than	

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				<p>complete--the work of art in his/her own time, prior experiential encounters and transformative afterthoughts. Unlike traditional art works, installation art is created at the exhibition site and has no autonomous existence since it depends on spectator participation. The shift from the isolated work of art to the experiential one not only complicates how and where works of art are viewed. Likewise, this shift also radicalizes the materials that constitute the work of art--whether those materials are extracted from the quotidian sphere or complex technologies--each undergoes a process of defamiliarization and reactivation to produce the transformative aesthetic experience.</p> <p>Using Brazil's outdoor museum Inhotim as a case study, we will explore how Baudelairean modernity manifests in a 21st-century artistic venue (http://www.inhotim.org.br/). The individual installations in Inhotim's "outdoor museum" engage the spectator in a dynamic/participatory experience with spatial, temporal and material relationships that define the very essence of art's reciprocity or contrast with the natural and man-made worlds. It is the rarefied setting of the botanical</p>	

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				gardens that makes the participatory and transformative experience central to the aesthetic encounter with installation art. This course will be organized around 2 theoretical/critical axes: the participatory role of the spectator; and the exploitation and appropriation of multimedia. These themes will be incorporated into the 3 historiographic units: 1.) the precursors of installation art: the early-mid 20 th -century avant-gardes; 2.) the Euro-American formation of installation art in the 1960s-1970s; 3.) the global discourse: installation art in the late 20 th and early 21 st century.	
Ciências da Saúde: Saúde da Criança e do Adolescente	Developmental Neuropsychology: a clinical-epidemiological approach Prof. Vitor Geraldi	45/03	Inglês	Discussion of the available research data and possible applications of clinical-epidemiological concepts and methods in the field of developmental neuropsychology, focusing on attention deficitly peractivity disorder, and learning disabilities of reading/writing and arithmetics. Consequences to public policies regarding behavioral and learning disorders in childhood and adolescence.	cpg@medicina.ufmg.br vghaase@gmail.com