

POSTGRADUATE PROGRAMMES AT UFES (2014)

ADMINISTRATION

GENERAL INFORMATION

The postgraduate programme in Administration seeks to educate highly skilled personnel for teaching and research activities in the several branches of Administration, and to educate managers for solving complex problems related to the administration of organizations and make them capable of using management and information technologies to promote competitiveness and organizational improvement. For that to happen, this programme develops research to connect local and global issues, helping in the building of knowledge and information, promoting integration between teaching, research and extension programmes in undergraduate and postgraduate studies, through the participation of students in research activities (scientific initiation), guided by professors and developed by the students during their course, including courses, seminars and lectures to publicize the results of students' works to the community.

Its research lines consist of issues related to human and subjective aspects in organizations. Organizations are seen as a result of social and historical issues that affect and articulate the creation of subjectivities, values, realities and knowledge. Besides, they deal with technologies and management processes for the continuous improvement of organizations. Through functionalist approach (quality or quantity-based) they seek to educate managers to interfere in business processes.

FOCUS AREAS

1. Administration of Organizations

RESEARCH LINES

1. Organizations and subjectivities
2. Technologies and organizational processes

OTHER INFORMATION

Campus: Goiabeiras

Website: www.administracao.ufes.br/posgraduacao

Phone: +55 27 3335 7712

E-mail: ppgadm@gmail.com

Course	Level	Study Time	Duration
Administration	Academic Master Degree	Afternoon Evening	2 years

TROPICAL AGRICULTURE

GENERAL INFORMATION

The postgraduate programme in Tropical Agriculture seeks to promote education of human resources in the field of Tropical Agriculture, through a wide scientific education, in order to develop the skills of students for solving problems related to agricultural production and, as a consequence, to help students consolidate science, applied to the field of Agronomy. The main objectives are:

promoting the development of scientific and technological research, consolidating the areas of production and handling of cultivated plant species, native and medicinal plants in tropical regions; create strategies for more efficient and sustainable cultivation in tropical agricultural systems; create conditions for scientific and human development of professors, promoting the competence of research in the several braches of tropical agriculture, and to promote interaction between the University, companies, government, public and private sectors of the society.

Its research line consists of studies about cultivation in a tropical environment, related to soil, weather, reproduction, phytosanitary, phytotechnical and improvement aspects, emphasizing increased efficiency in production and sustainability of agricultural production systems in a tropical environment.

FOCUS AREAS

1. Tropical Agriculture

RESEARCH LINES

1. Agricultural cultivation in a tropical environment

OTHER INFORMATION

Campus: São Mateus - CEUNES

Website: www.agriculturatropical.ufes.br/posgraduacao

Phone: +55 27 3312 1563

E-mail: fabiopires@ceunes.ufes.br

Course	Level	Study Time	Duration
Tropical Agriculture	Academic Master Degree	Full-time / Part-time	2 years

ARCHITECTURE AND URBANISM

GENERAL INFORMATION

The postgraduate programme in Architecture and Urbanism seeks to find answers for current challenges in the field of architecture and urbanism, facing contemporary issues, considering their historical aspects and the articulation of theory and practice in architecture and urbanism and related fields. The approach of this programme is to educate researchers, professors and professionals interested in studying the city, including themes related to previous landscape settings and impacts on physical and historical sites. The theoretical and methodological approach is the result of experiences from the professors in research, linked to the subjects available for study. This approach, guided by individual and group thinking, is connected to the study or urbanization and its impacts on territories.

Its research lines comprise the structure and transformation of cities: concepts and ideas; study of the impacts of urbanization; urban plans; historical, geographic, social, political and economical contexts; the creation and management of the city; local and global cooperation; the spaces built and the relation between buildings and cities; historical and theoretical studies of projects in urban structures; the relation between preservation and urbanization; historical study and proposals of methods and techniques for intervention in architecture and cities.

FOCUS AREAS

1. Cities and impacts on territories

RESEARCH LINES

1. Urban intervention and the architecture of the city: theory and project
2. Urban processes and city management: theory and history

OTHER INFORMATION

Campus: Goiabeiras

Website: www.arquiteturaeurbanismo.ufes.br/posgraduacao

Phone: +55 27 3335 2024/2563

E-mail: ppgau.ufes@gmail.com

Course	Level	Study Time	Duration
Architecture and Urbanism	Academic Master Degree	Full-time / Part-time	2 years

ARTS

GENERAL INFORMATION

The postgraduate programme in Arts seeks to offer wide and detailed education, to develop the competence of teaching and research in the criticism, theoretical and historical fields of arts. Its objective is to develop research in arts, promoting studies, thoughts and debates which can help in the development of practices and analyses of visual arts and time-space issues; to promote the state of Espírito Santo as knowledge producer in visual arts, becoming a place for production and spread of thoughts in the field of arts; to educate professionals capable of actively interfering in the development of production and thinking in visual arts, helping in the artistic development of the state and the country; to promote studies of artistic production in Espírito Santo, from the colonial period to the present day, looking for connections with the national and international scene.

Its research lines comprise the analysis of concepts and practices in the field of cultural heritage, with emphasis on the tangible heritage; and the artistical-historical object and the architectural and urban monuments. Besides, it seeks to deepen and promote historical studies in arts and architecture, favoring the Brazilian scene from the 16th century to present day. It also seeks to discuss the methodology and historiography from Arts and Architecture.

FOCUS AREAS

1. Theory and history of arts

RESEARCH LINES

1. Studies in history, theory and criticism of arts
2. Connections between arts, environment and thinking

OTHER INFORMATION

Campus: Goiabeiras

Website: www.artes.ufes.br/posgraduacao

Phone: +55 27 4009 7860/2582

E-mail: secretaria.ppgaufes@gmail.com

Course	Level	Study Time	Duration
Arts	Academic Master Degree	Full-time / Part-time	2 years

TROPICAL BIODIVERSITY

GENERAL INFORMATION

The postgraduate programme in Tropical Biodiversity is based on the knowledge about biodiversity in Brazilian ecosystems and their management through sustainable use, in order to educate human resources for the development of this field, through methods and theories from Ecology. Its objectives include bringing together researchers of ecosystem ecology, with various and complementary approaches, with academic skills in postgraduate courses of ecology related to ecosystem handling and biodiversity assessment; developing competences for multidisciplinary research about Brazilian biodiversity (specially in the state of Espírito Santo) to promote advanced studies or application in the labor market; seeking new methodologies and technologies for solving environmental problems, to promote sustainable development; interfering in the regional scenario, through critical thinking, to look for options which can help in the development process, with minor environmental impacts.

Its research lines comprise ecology studies based on population, community and ecosystem data, to develop studies about ecology within ecosystems, zoology and botany, as well as biomonitoring and environment assessment; the diversity and the potential use of plants by communities; knowledge about the diversity of Brazilian flora used in various crops and their potential therapeutic use in humans and animals, and the handling and control of pests and diseases in plants; relevant debates about Brazilian tropical ecology, focused on the ecosystems of Espírito Santo, including organisms threatened with extinction and organisms seen as indicators of environmental quality; studies about systems and genetics, based on morphologic and molecular data. Besides, studies about biogeography, taxonomy and systems within zoology and botany, as well as population genetics and morphology in the fields of cytology and histology, producing relevant information about Brazilian biodiversity, with emphasis on the state of Espírito Santo.

FOCUS AREAS

1. Ecology

RESEARCH LINES

1. Tropical Ecology
2. Biodiversity: systems and genetics of tropical organisms

OTHER INFORMATION

Campus: São Mateus - CEUNES

Website: www.biodiversidadetropical.ufes.br/posgraduacao

Phone: +55 27 3312 1563/1637/1702

E-mail: ppgbt@ceunes.ufes.br

Course	Level	Study Time	Duration
Tropical Biodiversity	Academic Master	Full-time / Part-time	2 years

	Degree		
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BIOLOGICAL SCIENCES – ANIMAL BIOLOGY

GENERAL INFORMATION

The postgraduate programme in Biological Sciences (Animal Biology) is based on philosophical and practical principles of Biological Sciences, both in research and education. Thus, one seeks to integrate the various levels of biotic, molecular and ecosystem organization, also comprising animal diversity in aquatic and terrestrial environments. Its focus is integrating subjects in the fields of systematics, ecology, genetics, biogeography and ethology, using several methods at the molecular, cellular and organism level, to identify issues related to evolution and organization of animal diversity, and promote its preservation. The ecological approach emphasizes the knowledge of marine fish communities and ichthyoplankton in estuaries. The understanding of such communities has provided relevant data for fishery handling and conservation of marine fauna.

Its research line seeks the integration of the various levels of biotic, molecular and ecosystem organization, comprising animal diversity in aquatic and terrestrial environments. The study of biotic ecosystems is conducted in a multidisciplinary approach.

FOCUS AREAS

1. Animal Biology

RESEARCH LINES

1. Integrated Zoology

OTHER INFORMATION

Campus: Maruípe

Website: www.cienciasbiologicas.ufes.br/posgraduacao

Phone: +55 27 3335 7414/7250

E-mail: ppgban@yahoo.com.br

Course	Level	Study Time	Duration
Animal Biology	Academic Master Degree	Full-time / Part-time	2 years
Animal Biology	Doctoral Degree	Full-time / Part-time	4 years

PLANT BIOLOGY

GENERAL INFORMATION

The post graduate programme in Plant Biology emphasizes studies about fruticulture, bioprospection of plants in Atlantic rainforest and biosensors of quality in aquatic and terrestrial ecosystems, in order to promote teaching and research in this field. The activities of the programme are related to agribusiness, market, technology and environment issues.

Its research lines comprise the explanation of signaling processes activated by environment stimuli, metabolic signs or infection by pathogens, with the objective of developing molecular strategies for

developing planned tolerance in plants and the growth of new plants; the impact of pollutants on algae and plants, mechanisms of tolerance and resistance, detoxification of ecosystems and identification of phytoindicators for environment assessment; and physiological responses of plants in natural and agricultural ecosystems to factors such as light, temperature, water and minerals.

FOCUS AREAS

1. Plant Physiology

RESEARCH LINES

1. Ecological and physiological behavior of plants
2. Ecophysiology of algae and plants in natural and modified environments
3. Molecular physiology of plants

OTHER INFORMATION

Campus: Goiabeiras

Website: www.biologiavegetal.ufes.br/posgraduacao

Phone: +55 27 4009 2588/2589

E-mail: biologiavegetal@npd.ufes.br

Course	Level	Study Time	Duration
Plant Biology	Academic Master Degree	Full-time / Part-time	2 years

BIOCHEMISTRY AND PHARMACOLOGY

GENERAL INFORMATION

The postgraduate programme in Biochemistry and Pharmacology seeks the education of professionals for teaching, research and extension activities, both in public and private sectors. Additionally, these professionals are trained to develop scientific and technological knowledge, promoting solutions for problems in regional and national communities. Such education provide students with skills for their professional expertise, so that they can be engaged in the solution of problems of regional and national communities, both in the academic (teaching and research) and the production sectors.

Its research lines comprise the structure and role of macromolecules, with emphasis in protein biochemistry, immunochemistry, and clinical and molecular diagnosis; the biochemical and molecular bases of behavior with emphasis in neurotransmission mechanisms and neuromodulation; and also the neurochemical bases for therapeutic and toxic effects of medicine in the nervous system. Furthermore, the cellular effects related to immunological treatment, therapy related to growth factors and cases of pain, inflammation and fever, with emphasis on the development of medicines.

FOCUS AREAS

1. Biochemical and Molecular Pharmacology

RESEARCH LINES

1. Macromolecule Biochemistry
2. Neurochemistry and Molecular Neurobiology
3. Neuropharmacology

4. Cell Pharmacology

OTHER INFORMATION

Campus: Maruípe

Website: www.bioquimicaefarmacologia.ufes.br/posgraduacao

Phone: +55 27 4009 7559

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Course	Level	Study Time	Duration
Biochemistry and Pharmacology	Academic Master Degree	Full-time / Part-time	2 years

BIOTECHNOLOGY

GENERAL INFORMATION

The postgraduate programme in Biotechnology seeks to promote intellectual and scientific skills in graduate students from fields related to Biotechnology, by promoting training in research, and preparing them for teaching in higher education institutions; to educate professionals with a solid scientific background and interest in technological development, and entrepreneurs with knowledge about intellectual property; to bring together researchers of Biotechnology, promoting collaboration among them, and with various research centers in Brazil and abroad; to work on the applicability of products and processes, including technology transfer to production sectors.

Its research lines comprise the explanation of the structure and functionality of genes and proteins with the use of biotechnological methods, such as DNA, RNA and protein analysis; the resistance of plants to diseases encompasses a set of defense responses, including cell signaling related to biotic and/or abiotic stress, connected to the ability of the plant to respond to infectious agents; bioinformatics to combine knowledge from biology, chemistry, physics and computer science in order to group, analyse and support the understanding of biological data; control measures of phytopathogenesis and the appropriate identification of ethological agents, in order to define strategies for handling plant diseases. Furthermore, analyze prognostic biomarkers of some human diseases which are relevant for therapeutics and prevention of diseases such as cardiovascular diseases, osteoporosis, cancer and others; and the use of genetically modified organisms (GMO), one of the milestones of Biotechnology.

FOCUS AREAS

1. Agribusiness
2. Health

RESEARCH LINES

1. Genomics, proteomics and metabolomics in defense systems of tropical plants
2. Biotechnological methods for diagnosis of pathogens and health in tropical plants
3. Quality of food and beverages
4. Genomic, proteomic and metabolomic analysis of molecular biomarkers
5. Biotechnological methods for prevention, diagnosis and therapeutics of human diseases
6. Genetically modified organisms as models for studying human diseases
7. Bioinformatics and robotics

OTHER INFORMATION

Campus: Maruípe

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Course	Level	Study Time	Duration
Biotechnology	Academic Master Degree	Full-time / Part-time	2 years

FOOD SCIENCE AND TECHNOLOGY

GENERAL INFORMATION

The postgraduate programme in Food Science and Technology seeks the education of professionals for teaching, research and technical tasks in the following fields of knowledge: Science and technology of products of animal origin; Science and technology of products of plant origin; Food science related to chemical, biochemical, physicochemical, nutritional, toxicological and microbiological aspects.

Its research lines comprise themes related to science and technology, specially the activities of processing, quality control and sensory assessment of animal origin products; the fields of science and technology, specially the activities of processing, quality control and sensory assessment of plant origin products; the study of epidemiologic, biologic and social-economic indicators of health status and the nutritional status of population groups; and the assessment of bioavailability of nutrients.

FOCUS AREAS

1. Food science and technology

RESEARCH LINES

1. Science and technology of products of animal origin
2. Science and technology of products of plant origin
3. Food safety and applied nutrition

OTHER INFORMATION

Campus: Alegre

Website: www.cienciaetecnologiadealimentos.ufes.br/posgraduacao

Phone: +55 28 3552 8918

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Course	Level	Study Time	Duration
Food Science and Technology	Academic Master Degree	Full-time / Part-time	2 years

ACCOUNTING SCIENCES

GENERAL INFORMATION

The postgraduate programme in Accounting Sciences seeks the technical and scientific education for professional activities related to teaching and research in the field of Accounting Sciences. The objectives of this programme include providing opportunities for researchers who want to develop their professional and academic knowledge and their skills for research in Accounting Sciences; and to promote teaching and research activities, through the establishment of permanent research lines, supported by new projects and researchers.

Its research lines comprise the development of theoretical and empirical studies related to themes about the implications of financial and tax accounting for third-parties, such as: investors, government and its agencies, loan lenders and others; and the development of theoretical and empirical studies related to themes about the implications of management accounting and controlling for third-parties: business people, directors, managers from all levels, employees and others.

FOCUS AREAS

1. Accounting and Controlling

RESEARCH LINES

1. Financial and tax accounting
2. Management accounting and controlling

OTHER INFORMATION

Campus: Goiabeiras

Website: www.cienciascontabeis.ufes.br/posgraduacao

Phone: +55 27 4009 2956/2757

E-mail: contabil@npd.ufes.br

Course	Level	Study Time	Duration
Accounting Sciences	Academic Master Degree	Full-time / Part-time	2 years

PHYSIOLOGICAL SCIENCES

GENERAL INFORMATION

The main objective of the postgraduate programme in Physiological Sciences is to contribute to the development of Science and Technology and for technological innovation in Brazil and abroad, by developing and promoting the training of researchers in the fields of Biology and Medicine, with experimental or applied studies; to educate skilled human resources for teaching and research in experimental and clinical physiology. This programme also seeks to develop extension activities for the improvement of public health services, working with cooperation and information exchange between researchers from Espirito Santo, Brazil and abroad; and also to develop activities of scientific publishing.

Its research lines comprise the reflex, humoral and neural mechanisms that control the cardiovascular system in pathological conditions, such as hypertension, arteriosclerosis, myocardial infarction, obstructive apnea and diabetes; the identification of the role of the nervous system and hormonal factors on the regulation of blood pressure, heart rate and renal excretion of ions during

physiological and physiopathological handling; the biological bases of panic disorder and its comorbidity with psychiatric disorders and somatic diseases; the effects of arterial hypertension and arteriosclerosis on the functionality of stem cells, and other aspects.

FOCUS AREAS

1. Cardiovascular physiology
2. Physiology

RESEARCH LINES

1. Structural and functional characterization of proteins
2. Myocardial contractility
3. Neural and humoral regulation of cardiovascular system in health and illness
4. Neural and humoral regulation of cardiovascular and renal functions during physiological and physiopathological processes
5. Reflex and humoral control of cardiovascular system in health and illness
6. Prefrontal cortex: functions, neuropsychopharmacology and its role on cognition disorders and drug abuse and addiction
7. Biological determinants of panic disorders
8. Cardiovascular effects produced by ouabain
9. Effects of sexual hormones on cardiovascular system
10. Cardiovascular toxic effects caused by heavy metals
11. Cardiovascular epidemiology
12. Study of reflex and humoral control of cardiovascular system in different scenarios
13. Cardiovascular physiopathology
14. Renal function in cardiovascular diseases
15. Interactions between physical training and humoral factors on the cardiovascular and renal systems, under various physiopathological conditions, such as arterial hypertension, myocardial infarction and heart failure
16. Cardiovascular control mechanisms in experimental models of hypertension and arteriosclerosis
17. Neural mechanisms of cardiovascular responses of defense
18. Role of the sexual hormones and analogous drugs on the cardiovascular and renal systems
19. Vascular reactivity
20. Cell and gene therapy in cardiovascular system

OTHER INFORMATION

Campus: Maruípe

Website: www.cienciasfisiologicas.ufes.br/posgraduacao

Phone: +55 27 3335 7340/7339

E-mail: ppgcf@ppgcf.ufes.br / secretaria@ppgcf.ufes.br

Course	Level	Study Time	Duration
Physiological Sciences	Academic Master Degree	Full-time / Part-time	2 years
Physiological Sciences	Doctoral Degree	Full-time / Part-time	4 years

FOREST SCIENCES

GENERAL INFORMATION

The postgraduate programme in Forest Sciences offers education in the various fields of research in Forest Sciences, for teaching in higher education institutions, in order to meet the growing demand of professors of Forest Sciences, and to support research and promote the training of researchers in the various fields of Forest Sciences.

Its lines of research comprise the studies of natural and planted forests about dendrometry, measuring, inventory, growth, phytosociology, handling, optimization, economy, harvest, transport, ergonomomy, management and forest planning; the conservation of natural resources in watersheds (water, soil and forest resources); floristics, phytosociology, phytophysognomy of plant formations; use of geoprocessing applied to Forest Sciences; measures to mitigate the impact on forests; nutrition and development of forest species, forest seeds; breeding grounds and seedlings; diseases of forest species, pest handling, control and prevention of forest fire. Moreover, studies whose objective is to determine the properties of wood and the effects of factors that may interfere on the level of quality and use of the wood.

FOCUS AREAS

1. Forest sciences

RESEARCH LINES

1. Forest handling
2. Environment and water resources
3. Forestry
4. Forest products technology

OTHER INFORMATION

Campus: Alegre

Website: www.cienciasflorestais.ufes.br/posgraduacao

Phone: +55 28 3558 2528

E-mail: cienciasflorestais@cca.ufes.br

Course	Level	Study Time	Duration
Forest Sciences	Academic Master Degree	Full-time / Part-time	2 years
Forest Sciences	Doctoral Degree	Full-time / Part-time	4 years

SOCIAL SCIENCES

GENERAL INFORMATION

The postgraduate programme in Social Sciences has the objective of educating skilled professionals concerned with knowledge production in their fields of work, and related to the dynamics and development of Social Sciences, in theoretical and applied terms; to promote the academic thought in the field of Humanities and their scope; to contribute to the production of knowledge related to the challenges and transformation of the contemporary world, including the various aspects of the globalization processes, as well as their effects on individuals, societies, environment, and the regional specificities in particular.

Its research lines comprise multiple transformations of present times and their impacts on working in rural and urban areas, on the institutional redesign, on the models of citizenship, on the definitions of the State and civil society. Besides, it emphasizes the configurations of contemporary societies, the processes of building, creation and expression of social and political identities.

FOCUS AREAS

1. Sociology

RESEARCH LINES

1. Institutions, conflicts and inequalities
2. Cultures, identities and social territories

OTHER INFORMATION

Campus: Goiabeiras

Website: www.cienciassociais.ufes.br/posgraduacao

Phone: +55 27 4009 2493

E-mail: mestradoeco@gmail.com

Course	Level	Study Time	Duration
Social Sciences	Academic Master Degree	Full-time / Part-time	2 years

VETERINARY SCIENCES

GENERAL INFORMATION

The postgraduate programme in Veterinary Sciences has the objective of promoting creative and critical skills in postgraduate students, so that they can trigger their energy for changes, in order to work as agents of transformation in Veterinary Sciences; to stimulate, in every possible way, during postgraduate activities, the heuristic method, transformation and discovery, promoting a continuous process of seeking the scientific truth and the development of universal values in Veterinary Sciences; to develop inquiry activities in the various fields of Veterinary Sciences, through a systematic study of areas of their scope, in order to promote the technical, scientific and didactic skills in animal science, for national and international development; to promote systematic inquiry of methods and techniques for improving animal health and production, according to the social, economical and environmental scenario, in order to have positive impacts on the environment.

Its research lines comprise the study of new methods for diagnosis, control and treatment of animal diseases, developing studies of Surgical Clinics and Veterinary Intensive Care, with research projects in experimental surgery; and to seek the development of physiopathology studies of the reproduction system of animals, along with sufficiency in biotechnology for animal reproduction. And also the fields of animal production and nutrition.

FOCUS AREAS

1. Veterinary Sciences

RESEARCH LINES

1. Animal reproduction and nutrition
2. Diagnosis and therapeutics of clinical and surgical illnesses

OTHER INFORMATION

Campus: Alegre

Website: www.cienciasveterinarias.ufes.br/posgraduacao

Phone: +55 28 3552 8983/8927

E-mail: cienciasveterinarias@cca.ufes.br

Course	Level	Study Time	Duration
Veterinary Sciences	Academic Master Degree	Full-time / Part-time	2 years

DENTAL CLINICS

GENERAL INFORMATION

The postgraduate programme in Dental Clinics has the objective of educating skilled professionals to meet the demands of higher education growth, conscious of the social role of Dentistry; to train researchers, promoting basic and applied research in Dentistry; to emphasize studies and techniques related to professional skills. And to promote scientific production in Dentistry, through the development of research by undergraduates, graduates and professors.

Its research lines comprise the morphological, biological, microbiological, immunological, pathological, histological, microscopic, radiographic and clinical aspects of the dental organ and its support and protection structures, as well as the stomatognathic system; the study of relations between this system and the systemic condition of the individual; the health/illness process, seeking the descriptive, etiological, morphological and functional aspects, by identifying the conditioning factors (social, economical, behavioral and environmental) of the main oral illnesses. And to research about the dental materials, their characteristics, techniques of use and their behavior.

FOCUS AREAS

1. Dental Clinics

RESEARCH LINES

1. Physical, chemical and biological properties of dental materials
2. Biological and clinical bases of dentistry
3. Oral health programs

OTHER INFORMATION

Campus: Maruípe

Website: www.clinicaodontologica.ufes.br/posgraduacao

Phone: +55 27 3335 7244

E-mail: ppgco@prppg.ufes.br

Course	Level	Study Time	Duration
Dental Clinics	Professional Master Degree	Full-time / Part-time	2 years

CIVIL PROCEDURAL LAW

GENERAL INFORMATION

The postgraduate programme in Civil Procedural Law seeks to develop academic activities, promote exchange and establish permanent research activities in the various fields of Civil Procedural Law, considering social responsibility, in order to work as a hub for producing knowledge and educating skilled human resources.

Its research lines comprise the study of civil procedural law, connected to the needs of a Constitutional Democratic State, by changing the value-based formalism model; and the study of new procedural techniques, in order to improve forensic practice and civil law, according to demands related to the transition from the classical civil procedure to the effective judicial protection.

FOCUS AREAS

1. Civil Procedural Law

RESEARCH LINES

1. Value-based formalism and access to justice: procedure, democracy and fundamental rights
2. Procedure Technique and Protection of Rights: the procedure as a method for accomplishment and effectiveness of rights

OTHER INFORMATION

Campus: Goiabeiras

Website: www.direitoprocessualcivil.ufes.br/posgraduacao

Phone: +55 27 4009 7723

E-mail: ppgdir.ufes@gmail.com

Course	Level	Study Time	Duration
Civil Procedural Law	Academic Master Degree	Full-time / Part-time	2 years

INFECTIOUS DISEASES

GENERAL INFORMATION

The postgraduate programme in Infectious Diseases has the main objective of developing learning integrated to research and technical cooperation, promoting the integration of students in scientific initiation, researchers and professionals from various fields. It seeks to educate professors and researchers, by encouraging the development of research about infectious diseases, in the scope of academic institutions and health services; and also to educate professors and human resources linked to health, biological sciences and related areas, to conduct studies about infectious diseases; to stimulate interdisciplinary studies with positive impacts on the health/illness process in human beings, yielding research with valuable data for improving health conditions in population.

Its research lines comprise the development of new methods for diagnosis, new therapeutic procedures, tests of new drugs, and clinical assessment; use of experimental models of infectious diseases for studying new therapeutic methods; validation of sensitivity tests for new drugs, inflammatory cytokines and their role in pathogenesis; molecular epidemiology of the main causes of

illnesses related to parasitic infectious diseases (PID) and the use of an experimental model for pathogenesis of injuries. And also studies for a better understanding of the epidemiologic process: patients profile, clinical signs, diagnosis and evolution of the infectious diseases.

FOCUS AREAS

1. Infectious Diseases

RESEARCH LINES

1. Diagnosis, clinics and therapeutics of infectious diseases
2. Immunology, pathogenesis and molecular biology of infectious diseases
3. Epidemiology of infectious diseases

OTHER INFORMATION

Campus: Maruípe

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Course	Level	Study Time	Duration
Infectious Diseases	Academic Master Degree	Full-time / Part-time	2 years
Infectious Diseases	Doctoral Degree	Full-time / Part-time	4 years

Seal: Top 10 Postgraduate Programmes in Infectious Diseases in Brazil.

One of the Top 10 best evaluated courses in the area of Infectious and Parasitic Diseases/Tropical Medicine/Infectious diseases, according to Capes 2010. Data available at Capes website.

ECONOMICS

GENERAL INFORMATION

The postgraduate programme in Economics has the objective of educating human resources which are able to deal with academic research in educational institutions, as well as in private companies and in the public sector, through a broad view of learning in Economic Theory and Quantitative Methods, focusing on the scenario of Economy in Espírito Santo, Brazil and abroad. It also provides the necessary knowledge for applications in Doctoral programmes in Brazil and abroad.

Its research lines comprise the study of explanatory theories related to macroeconomic effects: different analyses of the determinants of economic growth, connections between cycles and growth, ways of determining aggregate demand and level of employment; analysis of theoretical approaches related to sectoral and inter-sectoral economic phenomena, and the analysis of several aspects of Economy in the state of Espírito Santo, its particularities, its role in the region and in Brazil, as well as the historical aspects that determined the path of its development. They also comprise theoretical and practical studies, the role and the nature of information within markets, the macroeconomic role of electronic networks and the analysis of the nature of immaterial capital; theoretical and applied research with sectoral and regional emphasis, in local systems of innovation and local clusters. Besides, these lines include the relations between technological innovation, environment and determining historical factors in the economic development of countries.

FOCUS AREAS

1. Economic Theory

RESEARCH LINES

1. Macroeconomic Analysis
2. Microeconomic Analysis
3. Economics of Information, culture and knowledge
4. Economics of Innovation
5. Quantitative methods
6. Economic and public policies
7. Innovation systems, nanotechnology, energy and sustainable development

OTHER INFORMATION

Campus: Goiabeiras

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Course	Level	Study Time	Duration
Economics	Academic Master Degree	Full-time / Part-time	2 years

EDUCATION

GENERAL INFORMATION

The postgraduate programme in Education has the objective of educating professors and researchers who are able to question and think about the theoretical and practical issues of education, to produce new and significant knowledge and to promote the solution of educational problems. It also seeks the development of a new attitude towards thinking, studying and criticism, as well as skills related to research, observation and inquiry, as a basis for cultural and scientific education of researchers.

Its research lines comprise issues related to curriculum and the process of educating teachers in their social, historical and environmental skills; they analyze the theory and the formation of personnel linked to inclusive school and non-school practices, considering different approaches to learning and development; they study issues related to the teaching/learning process of languages (spoken, written, visual and mathematics) in formal and non-formal education and also comprise policies, institutions, thinking models and knowledge production linked to education in different historical settings, considering social, cultural, emotional and psychological aspects.

FOCUS AREAS

1. Education

RESEARCH LINES

1. Culture, curriculum and teacher training
2. Diversity and inclusive educational practices
3. Education and languages
4. History, Society, Culture and educational policies

OTHER INFORMATION

Campus: Goiabeiras
Website: www.educacao.ufes.br/posgraduacao
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Course	Level	Study Time	Duration
Education	Academic Master Degree	Full-time / Part-time	2 years
Education	Doctoral Degree	Full-time / Part-time	4 years

Seal: Top 10 Postgraduate Programmes in Education in Brazil.

One of the Top 10 best evaluated courses in the area of Education, according to Capes 2010. Data available at Capes website.

PHYSICAL EDUCATION

GENERAL INFORMATION

The postgraduate programme in Physical Education has the objective of promoting the education of professors for higher education institutions and training researchers in the field of Physical Education, specially in the scope of pedagogical, social and cultural studies and health. The activities of the course are organized in a curriculum, in order to educate professionals with a broad view of the educational issues in Brazil, who are able to associate this view with the particularities of physical education, with a solid epistemological education, as a basis for thinking in physical education and its principles. As part of the field of education, such professor should be engaged in continued education and be conscious of his/her own decisions, with a deep knowledge about the historical, social and cultural aspects of corporal practices associated to physical education.

Its research lines comprise the acute and chronic effects of human corporal movement in the cardiorespiratory system, with emphasis on the hemodynamic variables (chronotropic, pressure-related), ventilatory, morphological, functional, using also an animal model; the social and philosophical bases for the analysis of contemporary social processes related to corporal culture of movement, as well as the theoretical concepts related to body and human movement; the role of physical education in school curriculum, emphasizing the daily routine of teachers, the learning problems, the imagination and opinions of students, teachers and pedagogical staff; the relation between human body movement, its various social and cultural expressions and health. They also comprise the study and research, considering historical, social and cultural aspects in physical education and corporal practices, sport-related or not, their role in schools, their practices and expressions, considering initial and continued training in physical education and, as well as theorizing and the building of curriculum for teachers. And also the understanding of the role of the teacher, the school, the professional education and the teaching/learning process.

FOCUS AREAS

1. Pedagogical, social and cultural studies in physical education
2. Physical education, human body movement and health

RESEARCH LINES

1. Teacher training and curriculum in physical education
2. Physical education, curriculum and school routines
3. Social and cultural studies in physical education and corporal practices
4. Physical education, body and human movement
5. Biomechanical aspects and physiological responses to human body movement

OTHER INFORMATION

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Course	Level	Study Time	Duration
Physical Education	Academic Master Degree	Full-time / Part-time	2 years

ENERGY

GENERAL INFORMATION

The objective of the postgraduate programme in Energy is studying the production and processing of energy, petroleum and gas, as well as the development of materials, technologies and processes related to energy efficiency. This way, one intends to develop integrated research, in order to promote the education of personnel in priority areas for national and international development. The programme also seeks to develop research focused on the solving of regional problems related to chemical and petroleum industry; educate human resources for the areas of development and research, as well as for the teaching of engineering; conduct advanced studies, prepare and implement research projects in engineering and technology, seeking the development of new materials, technologies and processes, as well as the analysis of production and processing of petroleum, gas and energy, in order to improve these processes.

Its research lines seek to produce academic papers related to energy efficiency and development of materials: synthesis and characterization of nano-particle materials applied to industry; new materials used in energy technology; optimization and logistics of energy systems; modeling and simulation of energy processes; process engineering: material characterization, development and optimization of process of separation and refining applied to chemical and petroleum industry, use of chemical and biochemical reactors for the production of biofuels. They also seek to gather knowledge with the development of geo-engineering in petroleum and gas reservoirs; and also involve geosciences to comprise studies of modeling of complex flows in porous media, to improve techniques for recovering hydrocarbons; production and processing of petroleum and gas for characterizing petroleum and emulsions; operations of drilling and completion, elevation and drainage, primary processing and refining; as well as the development and implementation of computer systems and electronic prototypes for assisting exploration and production of petroleum, gas and renewable energy. They also seek to develop bases for the scientific development of future sources of energy, committed to economic feasibility and minor environmental impacts, in order to encourage sustainability and long-term development.

FOCUS AREAS

1. Engineering, technology and management

RESEARCH LINES

1. Energy Efficiency
2. Petroleum, gas and renewable energies

OTHER INFORMATION

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E-mail: secposgrad@ceunes.ufes.br

Course	Level	Study Time	Duration
Energy	Academic Master Degree	Full-time / Part-time	2 years

NURSING

GENERAL INFORMATION

The postgraduate programme in Nursing has the objective of developing and promoting the education of nurses, making them skilled for teaching and research, helping in the improvement of care practice and administration in health and nursing; to train researchers and professors in the field of nursing and health; to develop research skills for the development of the profession as a science, art and technology, by establishing groups of research; to contribute for the production and publicization of technical and scientific knowledge in the field of health, in order to promote health policies and practices for individuals throughout their life.

Its research lines comprise the production of knowledge about nursing care, under political, social, demographic and epidemiologic aspects, in the process of human development; they study the factors that may interfere in children, teenager, adult and elderly health, considering ethical, bioethical and everyday aspects in the job of nursing. And also to deepen and develop research in administration applied to nursing, emphasizing interpersonal issues and new technologies in organizations of healthcare systems; using paradigms of administration related to quality assessment in healthcare.

FOCUS AREAS

1. Nursing care

RESEARCH LINES

1. Nursing care in the process of human development
2. Organization and assessment of health care systems

OTHER INFORMATION

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Course	Level	Study Time	Duration
Nursing	Professional Master Degree	Full-time / Part-time	2 years

ENVIRONMENTAL ENGINEERING

GENERAL INFORMATION

The postgraduate programme in Environmental Engineering has the main objective of educating highly skilled personnel and, as a result of their research, to develop technologies and methodologies with wide environmental application. Such methodologies are designed to fit the specific needs of the state of Espírito Santo, Brazil and abroad. This programme is known for playing an important role in the region, by supplying high skilled human resources for private companies, regulation agencies (municipal, state and national) and higher education institutions, working as a promoter of development in Espírito Santo.

Its research lines comprise the studies of reactors applied to processes of water and wastewater treatment; the development of biotechnologies for assessment and monitoring of environmental impacts in aquatic and terrestrial environments; the study of the levels of atmospheric contamination in urban environments and their impact on population, fauna, flora, and durable goods; the assessment of organic solid waste in urban environments and contaminated areas and solid waste from the oil industry. They analyze technologies of landfills and alternatives for characterization and use of urban waste; and to gather research in the field of biofuels, mainly the production of biogas from sewage systems and biodiesel from oily waste; and also research related to the rationalization of water use in buildings, among other aspects.

FOCUS AREAS

1. Air pollution
2. Water resources
3. Environmental sanitation

RESEARCH LINES

1. Mathematical modeling of atmospheric processes
2. Air quality in urban environments
3. Hydrodynamic aspects of processes of treatment of water and sewage
4. Administration of inland and costal waters
5. Energy and sanitation
6. Microbiology applied to sanitation
7. Rationalization of the use of drinking water
8. Solid waste
9. Treatment and reuse of wastewater and sludge
10. Water and wastewater treatment in water treatment stations

OTHER INFORMATION

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Course	Level	Study Time	Duration
Environmental Engineering	Academic Master Degree	Full-time / Part-time	2 years
Environmental Engineering	Doctoral Degree	Full-time / Part-time	4 years

Seal: Top 10 Postgraduate Programmes in Environmental Engineering in Brazil.

One of the Top 10 best evaluated courses in the area of Environmental Engineering, according to Capes 2010. Data available at Capes website.

CIVIL ENGINEERING

GENERAL INFORMATION

The postgraduate programme in Civil Engineering has the objective of educating human resources for the fields of Structures, Civil Construction and Transportation, through advanced studies with theoretical, numerical and experimental aspects, developed in various academic subjects and through guided research. And also to develop technologies and products, as well as to master advanced techniques and methodologies, by educating personnel to work at public institutions, factories, private companies and consulting services in the areas of civil construction, structures and transportation.

The research lines, besides emphasizing the education of personnel for research and teaching, seek to meet the needs of regional and national companies. Thus, they comprise studies about the use of waste and industrial by-products as materials for civil construction; they focus on projects from the area of materials, concrete, performance of buildings and construction administration; they seek to assess the performance of transportation systems using simulated modeling, dealing with analysis and assessment of logistic systems. Examples of such systems are distribution logistics, internal distribution, neural network models for logistics, among others. They also comprise projects related to quality, administration, maintenance and planning; and the study of parts and components of steel structures and concrete/steel structures, with the objective of studying the dynamics of steel and composite structures and the performance of special types of concrete with additives.

FOCUS AREAS

1. Civil Construction
2. Structures
3. Transportation

RESEARCH LINES

1. Steel and composite structures
2. Concrete structures
3. Geotechnics and foundation
4. Concrete and mortar
5. Use of waste and industrial by-products as construction materials
6. Sustainable building and architecture
7. Performance and assessment of the lifecycle of built environments
8. Transportation Logistics
9. Planning and operations in transportation

OTHER INFORMATION

Campus: Goiabeiras
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Course	Level	Study Time	Duration
Civil Engineering	Academic Master Degree	Full-time / Part-time	2 years

PUBLIC HEALTH ENGINEERING AND SUSTAINABLE DEVELOPMENT

GENERAL INFORMATION

The postgraduate programme in Public Health Engineering and Sustainable Development seeks to meet the demands of production sectors, governmental institutions, and the society, by educating highly skilled professionals for prevention in public health and by providing solutions for environmental problems, combining sanitation, environment protection and sustainable development activities. It also seeks to train personnel to work in public institutions and private companies related to environmental sanitation activities, promoting the concept of clean production as an alternative for solving problems associated to public health and environment conservation.

Its research lines comprise the use of oily waste from sanitation activities to produce biofuels; the assessment of organic solid waste in urban environments and in contaminated areas, and the assessment of solid waste from the petroleum industry – legal regulations, disposal, landfill technologies, composting, eco-generation; the concept of sustainability in Architecture and Urbanism; the issue of waste in urban environments; the development of systems for water and wastewater treatment, bio-indicators for water quality, pathogen detection, systems for drying and cleaning sludge, and biodegradability of toxic compounds. They also deal with studies of hydrodynamic aspects of pollutant dispersion and computer-based hydrology focused on inland water management, as well as the impacts of soil occupation on inland waters; the development of technology for water supply, handling of excrements, solid waste handling, soil drainage, and technologies for ecologic sanitation in rural areas; aerobic systems and their combinations; treatment tanks; constructed filter beds; new technologies; compact systems for treatment. They also seek the development of technological solutions for using alternative water sources in urban and rural buildings, particularly the reuse of gray water and the use of rainwater in urban buildings.

FOCUS AREAS

1. Sanitary engineering
2. Public health

RESEARCH LINES

1. Bioenergy
2. Handling of urban solid waste
3. Housing, health and environment
4. Microbiology applied to sanitation
5. Health policies
6. Water resources
7. Rural sanitation and eco-sanitation
8. Water treatment

9. Wastewater treatment
10. Use of alternative water sources

OTHER INFORMATION

Campus: Goiabeiras

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Course	Level	Study Time	Duration
Public Health Engineering and Sustainable Development	Professional Master Degree	Full-time / Part-time	2 years

ELECTRICAL ENGINEERING

GENERAL INFORMATION

The objective of the postgraduate programme in Electrical Engineering is to educate skilled researchers and professors, which are able to develop teaching and scientific/technological research in the several fields of Electrical Engineering. It deals with the education of personnel focused on inquiry practices, with a critical and entrepreneur view, who continuously seeks educational innovation based on practices, dedicated to knowledge dissemination and creation of products for improving the quality of teaching and learning in places where such professionals work. Thus, it seeks the education of professors for higher education and human resources for the public and private sectors, as well as researchers committed to scientific and technological development in Engineering, particularly Electrical Engineering, and its several fields.

Its research lines comprise the development of techniques and methodologies for analysis and projects of networks of intelligent systems, devices and optical systems for communication and optic networks; the development of systems for controlling processes in general, as well as systems for monitoring and remote surveillance of various plants; techniques and algorithms for sensing, navigation and control of mobile autonomous robots with wheels, legs and airborne robots, working on coordinated activities for groups of robots and the application of robotics to help disabled people; application of various systems for pattern recognition and signal/image treatment, dealing with themes such as biometrics, image modeling, texture/image segmentation, support to medical diagnosis and super-resolution; use of static converters for electric drive, switching power supplies, frequency converters, uninterruptible power supplies, electronic reactors, and others. Other two subjects studied are energy quality and superconductors.

FOCUS AREAS

1. Automation

RESEARCH LINES

1. Power electronics, electric drive and energy quality
2. Signal processing and pattern recognition
3. Robotics and intelligent automation
4. Control systems

5. Telecommunications and Information Technology

OTHER INFORMATION

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Course	Level	Study Time	Duration
Electrical Engineering	Academic Master Degree	Full-time / Part-time	2 years
Electrical Engineering	Doctoral Degree	Full-time / Part-time	4 years

MECHANICAL ENGINEERING

GENERAL INFORMATION

The postgraduate programme in Mechanical Engineering is tightly integrated to the industrial sector; the projects of the programme are directly connected to the demands of the industrial sector, related to technological development. The main objectives of the programme are the development of research projects with strong technological content and the education of human resources for the solving the problems of industry.

Its research lines comprise modeling, simulation and analysis of phenomena associated to the field of mechanics of solids; they are dedicated to the numerical and experimental analysis of problems related to the flow of non-newtonian fluids, such as: test of constitutive equations, oil recovery in porous media (and others); identification of the main mechanisms for controlling the performance of materials, through micro-structural mechanical, tribological or behavioral characterization, considering corrosion and its correlations and interactions; they also comprise modeling, simulation, analysis and optimization of problems related to transportation and projects for thermal systems and their components, with the development of proprietary modeling and/or commercial simulators of process.

FOCUS AREAS

1. Materials and manufacturing processes
2. Mechanics of solids
3. Thermal sciences and fluids

RESEARCH LINES

1. Dynamics of mechanic systems
2. Flow of complex fluids
3. Microstructure, mechanic properties and damage of materials
4. Modeling and simulation of thermofluid systems and phenomena
5. Isolated project

OTHER INFORMATION

Campus: Goiabeiras

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Course	Level	Study Time	Duration
Mechanical Engineering	Academic Master Degree	Full-time / Part-time	2 years

TEACHING OF PHYSICS

GENERAL INFORMATION

The postgraduate programme in Teaching of Physics has the objective of continuing research activities and educating human resources in the field of Teaching of Physics, with primary focus on the education of teachers of Physics, promoting the development of research projects based on scientific content and contemporary research methodologies; it seeks to intervene in the teaching/learning process, building academic knowledge and learning activities based on school routines and previous knowledge from students; promoting the development of research projects to articulate various fields of knowledge for group and multidisciplinary activities. It also seeks to analyze the scenario of Brazilian schools, in order to develop guidelines for the education of personnel with a critical, entrepreneur and innovative view for transforming this scenario towards the school/community concept, to develop new forms of school work and interaction; to develop research for creating a body of knowledge which has an impact the field of Teaching of Physics and the education of teachers of Physics in the several levels and places of schooling.

Its research lines comprise the study of alternative concepts, ways of thinking, models and evolution of concepts for use in the teaching/learning process: educational innovation and curriculum implementation; the study of the integration of information/communication technology and imaging technology in the teaching/learning process, in order to research, develop and assess educational innovation for curriculum implementation in basic education, high school and higher education, and the implementation of non-formal educational spaces.

FOCUS AREAS

1. Teaching of Physics

RESEARCH LINES

1. Learning of scientific concepts
2. Information, science and technology in the teaching of Physics

OTHER INFORMATION

Campus: Goiabeiras

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Course	Level	Study Time	Duration
Teaching of Physics	Professional Master Degree	Full-time / Part-time	2 years

PHILOSOPHY

GENERAL INFORMATION

The postgraduate programme in Philosophy seeks to create an appropriate environment and provide resources for development and implementation of research, in order to produce knowledge; improve the theoretical education of undergraduate students, with the objective of educating researchers and professors in Philosophy, particularly in their fields of study and related research lines.

Its research lines comprise the study of themes and essential authors related to the subject of beauty, arts, artistic creation and the interaction between the work of art and the public; studies of essential authors related to the connections between action, culture, religion and mystical aspects. They also deal with the concepts of being human and the idea of truth; as well as the relation between ontology and language; metaphysics is seen through a historical view in post-metaphysic speeches.

FOCUS AREAS

1. Philosophy

RESEARCH LINES

1. Philosophy of Arts
2. Philosophy or Religion
3. Metaphysics

OTHER INFORMATION

Campus: Goiabeiras

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Course	Level	Study Time	Duration
Philosophy	Academic Master Degree	Full-time / Part-time	2 years

PHYSICS

GENERAL INFORMATION

The postgraduate programme in Physics seeks to educate personnel for research and teaching in higher education, as well as to prepare personnel which can develop basic scientific research with potential technological applications in the scope of its research lines. The programme also seeks to educate personnel for scientific, technological and cultural development of the state of Espírito Santo, Brazil and developing countries which already have agreements with this programme, such as countries in Latin America and Africa.

Its research lines comprise the development of superconducting ceramics and manganites, and characterization under high pressure; tension studies about orthotropic materials; theory of fields applied to superconductivity, considering the breaking of Lorentz and Higgs mechanisms; the use of

improved methods from Hartree-Fock and Dirac-Fock (with the development of Gaussian basis sets) for relativistic and non-relativistic calculus of atom and molecule properties; the integration between information/communication technology and Physics; the development of new materials for potential use in technological applications in sectors of transformation and transfer of energy; the production and characterization of massive and nanoscopic materials, whether they are magnetic, ceramic or carbon-based; mathematical treatment of contemporary problems related to Theory of the Fields, Gravitation, Cosmology and black holes, with emphasis on cosmology, black holes, quantum gravitation, and the quantum aspects of vacuum.

FOCUS AREAS

1. Physics

RESEARCH LINES

1. Applied Physics
2. Computer-based Physics
3. Physics of fundamental interactions
4. Physics of condensed matter

OTHER INFORMATION

Campus: Goiabeiras

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Course	Level	Study Time	Duration
Physics	Academic Master Degree	Full-time / Part-time	2 years
Physics	Doctoral Degree	Full-time / Part-time	4 years

GENETICS AND IMPROVEMENT

GENERAL INFORMATION

The postgraduate programme in Genetics and Improvement has the objective of educating personnel to work with research, teaching and development of technologies in various fields of Genetics and Improvement, and to promote wide scientific education, training human resources for producing knowledge and technologies in the field of Genetics and Improvement; to promote the quality of teaching in Agricultural Sciences and related areas, through teacher training for basic education, high school and higher education, enabling the permanence and improvement of research and products, establishing research lines and groups to encourage collaboration between students, professors and members of the scientific community. It also seeks to solve regional problems which require skilled professionals; to promote interaction between university, companies, government, public and private institutions which are relevant in society; publicize knowledge about the works developed by professors and students – technology transfer; as well as to expand knowledge about agronomical, forest, zootechnical, ornamental and ecological aspects.

Its research lines seek to produce knowledge about the relative importance of environmental genesis in phenotypic variability of characteristics of continuous variation, in order to improve the efficiency of selection processes. Their fundamentals are important for theoretical and applied research in

Genomic Statistics and other important fields in Genetics and Improvement, and they are devoted to research related to application of methods of Genetic Improvement, for discovering new strategies of improvement, and for studying genes and their use, in order to obtain cultivars; they comprise basic and applied research in cytotaxonomy, systematics, evolution, cytogenetics and mutagenesis, by gathering researchers with different and complementary approaches, and with convergent academic achievements, providing information for studies related to characterization, prospecting, assessment and sustainable use of genetic resources of agronomical, forest, zootechnical and medicinal concern; they focus on the generation of data for biotechnological support of improvement programs through: characterization and genetic mapping of relevant genes for Agronomy, marker-assisted selection, selection through commercially relevant chemical compounds, *ex situ* and *in situ* conservation, studies of genetic diversity for pre-improvement of species of agricultural and medicinal concern or species that may be valuable for identification, quantification and characterization of compounds of economic concern. Besides, the tools used in this field may support taxonomic, evolutionary, phylogenetic, and use-related studies of genetic resources.

FOCUS AREAS

1. Genetics and Improvement

RESEARCH LINES

1. Biometrics and Improvement
2. Evolutionary Biology and cytogenetics
3. Biotechnology

OTHER INFORMATION

Campus: Alegre

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Course	Level	Study Time	Duration
Genetics and Improvement	Academic Master Degree	Full-time / Part-time	2 years
Genetics and Improvement	Doctoral Degree	Full-time / Part-time	4 years

GEOGRAPHY

GENERAL INFORMATION

The postgraduate programme in Geography has the objective of training human resources for teaching and activities related to Geography, in order to produce and multiply scientific and technological knowledge, to encourage the development of research in specific fields of knowledge, as well as to strengthen existing related fields, widening the connections between such fields.

Its research lines comprise studies that seek to explain and analyze the processes of production, the dynamics and transformation of urban/rural spaces and territories, in local, regional, national and global levels, and also basic and applied research about the patterns of the natural environment and the transformations on Earth, human-related or not.

FOCUS AREAS

1. Nature, technique and territory

RESEARCH LINES

1. Urban and rural dynamics of spaces and territories
2. Nature dynamics and transformation of territories

OTHER INFORMATION

Campus: Goiabeiras

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Course	Level	Study Time	Duration
Geography	Academic Master Degree	Full-time / Part-time	2 years

PUBLIC ADMINISTRATION

GENERAL INFORMATION

The postgraduate programme in Public Administration has the objective of meeting demands from the staff of this University, who look for a master degree focused on the public sector, and for the development of skills beyond operational activities, expanding the plan for staff training in higher education institutions.

Its research lines comprise the understanding of the role of the State, public and private issues, judicial control of public policies, the importance of ethics in the implementation of public activities, and the rules governing the contracts for acquisition of materials and services (outsourcing); the comprehension of economic and political aspects that govern the Public Sector, Public Finance, Public Accounting, Controllershship and Public Governance, the role of higher education institutions for encouraging innovation in products and services related to the sustainable development of economy and the importance of information as a value promoter in the public sector; as well as the comprehension of the specificities of labor relations in the public sector, the importance of planning in the public sector, implemented by drafting, execution and assessment of projects; and activities related to patrimonial assets and material acquisition; the importance of quality of operations and services in the public sector; the role of communication with internal and external users and the understanding of trends in contemporary public administration.

FOCUS AREAS

1. Public Administration

RESEARCH LINES

1. Legal aspects in the public sector
2. Economy and Public Finance
3. Administration of operations in the public sector

OTHER INFORMATION

Campus: Goiabeiras
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Course	Level	Study Time	Duration
Public Administration	Professional Master Degree	Full-time / Part-time	2 years

HISTORY

GENERAL INFORMATION

The postgraduate programme in History has the objective of promoting personnel education for research and higher education teaching in the field of History, by developing thinking, research and work in the areas of teaching and research in History, in order to promote a quality education for professors/researchers, particularly the studies about the ways of expressing Power and Politics. It also seeks to encourage education of personnel from related fields, who perform activities which are related to History, such as social scientists, scholars of Arts, Philosophy and Literature. This programme seeks to foster high quality university research among professors and students, by encouraging advanced research with scientific, didactic and professional purposes, in the field of History.

Its research lines comprise research about models of State and government, identifying the social groups that comprise or support state organizations, since the State should be seen in connection with the social relations that produce it; they comprise historical and historiographic research about representation systems and their externalization as various symbolic expressions, emphasizing the social processes that produce identity/alterity; and also comprise historical research of political nature, in the scope of various social groups, formally organized or not, considering interactions within groups, between groups and their interaction with the State.

FOCUS AREAS

1. Social History of political relations

RESEARCH LINES

1. Society and political movements
2. State and public policies
3. Representations and political ideas
4. Bibliographic References

OTHER INFORMATION

Campus: Goiabeiras
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Course	Level	Study Time	Duration
History	Academic Master Degree	Full-time / Part-time	2 years

History	Doctoral Degree	Full-time / Part-time	4 years
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INFORMATICS

GENERAL INFORMATION

The postgraduate programme in Informatics has the objective of educating professors and researchers in the field of Informatics for national/international educational and research institutions; it provides highly skilled technological education for companies and public institutions in Espirito Santo, Brazil and abroad; to promote scientific and technological development in the field of Computer Sciences in Brazil and abroad.

Its research lines comprise themes related to technology, methodology and tools for developing information systems, applied to the context of organizations, focusing of Software Engineering, Databases, Health Informatics and Organizational Modeling; analysis and development of tools for solving problems of mathematical programming; research about architecture, implementation and development of applications for systems which are more complex than the contemporary ones; research about theoretical reasoning of methodologies and languages of tools for solving complex problems, such as unsolved algorithm-based problems, using several approaches.

FOCUS AREAS

1. Computer sciences

RESEARCH LINES

1. Computer-based intelligence
2. High performance computing
3. Information Systems
4. Optimization

OTHER INFORMATION

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Course	Level	Study Time	Duration
Informatics	Academic Master Degree	Full-time / Part-time	2 years
Informatics	Doctoral Degree	Full-time / Part-time	4 years

LANGUAGES AND LITERATURE

GENERAL INFORMATION

The postgraduate programme in Languages and Literature has the objective of promoting thinking and inquiry in the fields of teaching and research, in order to educate professors for higher education and researchers in the field of Languages and Literature, particularly in the field of Literature; and also to help in the training of teachers of languages and literature from basic education and high

school, as well as human resources from related areas (communication professionals, journalists, translators, philosophers, scholars of arts, psychologists, historians, etc). It seeks to foster university research among professors and students, in order to achieve better results in their fields of study, by promoting and developing advanced research with didactic, scientific and professional purposes, in the field of languages and literature, particularly studies about text and speech, and establish connections between the several fields of research in languages and literature, and between the field of Languages and other fields of knowledge, favoring interdisciplinary collaboration, promoting continued training of researchers, in order to meet the demand for skilled professionals in teaching, and improving national and international scientific production.

Its research lines comprise the study and research in literature about minority groups, considering national and regional aspects, the specificities of gender and ethnicity, as well as the readers; the relations between literary speech and other cultural, artistic, scientific and philosophical speeches, considering semiotic and psychoanalytic theories and the contemporary anthropologic perspectives; as well as poetics of modernity and post-modernity in narrative, lyrical and theatrical types of texts, considering processes such as building of subjectivity, literary self-reference and hybridism in genre and speech.

FOCUS AREAS

1. Literary Studies

RESEARCH LINES

1. Literature and expressions of alterity
2. Literature and other systems of signification
3. Poetics from ancient to post-modern times

OTHER INFORMATION

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Course	Level	Study Time	Duration
Languages and Literature	Academic Master Degree	Full-time / Part-time	2 years
Languages and Literature	Doctoral Degree	Full-time / Part-time	4 years

LINGUISTICS

GENERAL INFORMATION

The postgraduate programme in Linguistics has the objective of promoting scientific, technical and professional skills in the field of language, encouraging the education of professors for higher education; to promote the articulation of teaching and research, developed in undergraduate and postgraduate courses, allowing the growth of research groups, with theoretical concepts that emphasize the relevance of studies of languages for implementation of teaching projects and for the development of other fields of knowledge; and also to create, through various national/international

events, a place for sharing research from professors and teachers, gathering theoretical thoughts and works of analysis.

Its research lines comprise projects related to the functioning of Portuguese language and its variations, particularly its units, levels of formation, relations, structures and formalization; the diversity of theoretical and methodological instruments for solving issues related to text and the processes of building texts, spoken or written, and the issues related to the building of speech and its genres; and also to focus on interdisciplinary issues about projects and data of linguistic and discursive nature, dealing with problems which require an investigative approach, in which the experiences from subjects, in interaction through language, become an object of thinking.

FOCUS AREAS

1. Linguistic theories and analysis

RESEARCH LINES

1. Analytical-descriptive studies of language
2. Studies about text and speech
3. Applied Linguistics

OTHER INFORMATION

Campus: Goiabeiras

Website: www.linguistica.ufes.br/posgraduacao

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Course	Level	Study Time	Duration
Linguistics	Academic Master Degree	Full-time / Part-time	2 years

MATHEMATICS – NATIONAL NETWORK

GENERAL INFORMATION

The postgraduate programme in Mathematics (National Network – PROFMAT) seeks to educate teachers of Mathematics from basic education, particularly the ones from public schools who need to improve their professional skills, with emphasis on detailed comprehension of mathematic subjects which are relevant for their teaching activities. This programme was designed for, in medium term, having a significant impact on the education of teachers of Mathematics throughout Brazil.

The work programme of PROFMAT comprises a project for direct application in the classroom, in basic education, promoting the improvement of teaching of Mathematics. The project can be developed in groups, along with an individual work of dissertation, which should develop an innovative proposal for activities, classes, sequence of activities or sequence of classes, created by the author of the work, comprising mathematical subjects from basic education and high school. Activities or sequence of activities from the author of the work or others (considering copyright) should be put into practice, in groups of students from basic education or high school, and their results should be assessed. In this case, the dissertation related to the initial project will be a report of assessment of such activities.

FOCUS AREAS

RESEARCH LINES

1. Writing proposals for educational activities
2. Use of classroom activities and assessment of results

OTHER INFORMATION

Campus: Goiabeiras

Website: www.profmat-sbm.org.br

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E-mail: profmat@sbm.org.br

Course	Level	Study Time	Duration
Mathematics – National Network	Professional Master Degree	Full-time / Part-time	2 years

MATHEMATICS

GENERAL INFORMATION

The postgraduate programme in Mathematics has the objective of educating personnel in the field of Mathematics, in order to meet the demand from Espírito Santo and neighbor regions; to conduct scientific research in the field where professors work; to encourage and establish research groups to promote partnerships with researchers from other institutions in Brazil and abroad; to promote scientific events to publicize Mathematics in several levels; to foster scientific exchange with researchers and students from other institutions; to collaborate for social, scientific and technological development in Brazil and abroad.

Its research lines comprise the study of topics associated to differential equations; quasilinear elliptical systems and equations; completely integrable systems and geometric aspects of non-linear equations; computer graphics and the development of tools and techniques for converting data to graphic devices through computers, by studying mathematical modeling for the simulation of real systems, in order to predict the behavior of such systems. One also studies the properties of algebraic curves and foliations of projective plan; problems of geometry of hypersurfaces with constant mean curvature and problems in dynamics and ergodic theory of unidimensional applications. They also seek the comprehension of the evolution of random phenomena, in order to predict future occurrences and its use in planning and statistical inference in various fields.

FOCUS AREAS

1. Mathematics

RESEARCH LINES

1. Analysis and partial differential equations
2. Computer Graphics
3. Algebraic geometry and the theory of foliations
4. Geometry and dynamic systems
5. Stochastic processes and applications

OTHER INFORMATION

Campus: Goiabeiras
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Course	Level	Study Time	Duration
Mathematics	Academic Master Degree	Full-time / Part-time	2 years

MEDICINE

GENERAL INFORMATION

The postgraduate programme in Medicine seeks the professional education for research and critical practices. Entrepreneurship is also developed. Students are encouraged to seek for educational innovation from their daily practice, committed to the publicization of knowledge and the creation of new products, for improving the quality of teaching and learning, in several professional areas. It also seeks to educate resident physicians to conduct clinical research in the field of medicine for improving their work in communities; to educate physicians for diagnosis and treatment of illnesses, using updated technologies, helping in the improvement of medical assistance for the population; and also to promote education for critical analysis of available scientific information in medical literature, improving, in such personnel, the ability to discern.

Its research lines comprise the study of processes related to anesthesia, before and after surgical procedure; surgical procedures and related situations, particularly (in this programme) surgery of the digestive tract, urological, vascular, urgency and emergency; clinical manifestations and laboratory aspects related to illnesses and their associations and complications; women's health, particularly Mastology, Climacterium, Risk Pregnancy; eye health and diseases and their relation with systemic illness. They also comprise pathologic anatomy, with emphasis in interdisciplinary fields; the study of children's and teenagers' health, particularly the study of neonatology, puericulture and adolescence, hereditary anemia and psychic development disorders. And also the study and development of methods and protocols for radiological and image examinations.

FOCUS AREAS

1. Medicine

RESEARCH LINES

1. Anesthesiology
2. Surgical Clinics
3. Medical Clinics
4. Gynecology and Obstetrics
5. Ophthalmology
6. Pathology
7. Pediatrics
8. Radiology

OTHER INFORMATION

Campus: Maruípe

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Course	Level	Study Time	Duration
Medicine	Professional Master Degree	Full-time / Part-time	2 years

ENVIRONMENTAL OCEANOGRAPHY

GENERAL INFORMATION

The postgraduate programme in Environmental Oceanography seeks to train skilled human resources for the field of oceanography, since it is focused on producing research to be published in the best available scientific media, and creating products and services which can be used by the production sector, in the fields of transportation, production of renewable and non-renewable resources, as well as the governmental sector of marine and coastal administration. Thus, such programme seeks to educate personnel with academic skills and with a consistent scientific comprehension about the structure and functioning of coastal and marine systems, considering their physical, chemical, geological and biological aspects and, at the same time, with a holistic comprehension of the relation between such aspects and the scientific and technological activities.

Its research lines comprise oceanographic studies to explain marine biologic phenomena (biotic parameters) comprising chemical, physical and geological data (abiotic parameters); research to assess communities and populations from coastal and marine systems, as well as explanations about various biota in different coastal and marine ecosystems; and also the identification and assessment of physical, chemical and geo-morphological phenomena in coastal and marine ecosystems.

FOCUS AREAS

1. Coastal and marine systems

RESEARCH LINES

9. Biotic and abiotic assessment of coastal and marine systems
10. Structure of aquatic communities and populations from coastal and marine systems
11. Physical, chemical and geo-morphological processes in coastal and marine systems

OTHER INFORMATION

Campus: Aracruz – Oceanic Base

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Course	Level	Study Time	Duration
Environmental Oceanography	Academic Master Degree	Full-time / Part-time	2 years
Environmental Oceanography	Doctoral Degree	Full-time / Part-time	4 years

SOCIAL POLICY

GENERAL INFORMATION

The postgraduate programme in Social Policy has the objective of training skilled researchers for conducting inquiries in the field of Social Policy, and educating these researchers for teaching; to promote theoretical thinking about social issues and about professionals and researchers in this field; to deepen knowledge for facing growing challenges which demand professional intervention; and also to foster research in the various fields of Social Policy, and to offer cultural and scientific education, training personnel to develop, independently, research activities, as well as to work on the education of other human resources with scientific, technical and professional skills.

Its research lines seek to analyze the formulation, management and social control of sectoral social policies, with the comprehension and study of issues related to subjectivity, social representation, violence and social movements. Moreover, the study of transformations in contemporary capitalism, emphasizing on financialization, expansion of debt in national States and changes in the labor market.

FOCUS AREAS

1. Social policy, State and Society

RESEARCH LINES

1. Reproduction and structure of contemporary capitalism
2. Social policies, subjectivity and social movements

OTHER INFORMATION

Campus: Goiabeiras

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Course	Level	Study Time	Duration
Social Policy	Academic Master Degree	Full-time / Part-time	2 years
Social Policy	Doctoral Degree	Full-time / Part-time	4 years

PLANT PRODUCTION

GENERAL INFORMATION

The postgraduate programme in Plant Production has the objective of promoting the best use of creative and critical skills from postgraduate students, so that they can use all their potential for change, in order to produce transformation in plant sciences; to stimulate, in every possible way, in all postgraduate activities, the heuristic method; the transformation and discovery, for a constant process of seeking the scientific truth and development of universal values for veterinary sciences; to develop research activities in the field of plant sciences, through a systematic study of the areas comprised in this field, in order to improve the level of technical, scientific and didactic knowledge in animal sciences, for national and international progress; and also to promote systematic research of

methods and techniques, according to the social, economical and environmental scenarios, and the development needs of the state, region and country, with positive impacts on the environment.

Its research lines comprise the development of basic and applied studies on the fields of Molecular Biology, Biometrics, tissue culture, eco-physiology of plant development and Genetics, in order to obtain relevant information about the genome and physiology of species; the creation of technologies for enabling agricultural production with the best possible results for the farmer and the minimum impact on the environment; the agricultural production and its relation with the use of water resources, optimizing the use of water and wastewater; and also knowledge about genesis, handling, fertility and physics of organic matter in soil, essential features for the development of agriculture and the production of environmental services in rural areas.

FOCUS AREAS

1. Plant Production

RESEARCH LINES

1. Biotechnology and eco-physiology of plant development
2. Phytotechnology
3. Plant health
4. Planning and management of water resources
5. Soils and plant nutrition

OTHER INFORMATION

Campus: Alegre

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Course	Level	Study Time	Duration
Plant Production	Academic Master Degree	Full-time / Part-time	2 years
Plant Production	Doctoral Degree	Full-time / Part-time	4 years

PSYCHOLOGY

GENERAL INFORMATION

The postgraduate programme in Psychology seeks to educate professors for higher education institutions, in order to meet the growing demand in this area of education and to improve the quality in this level of teaching; to promote education and training of researchers in this field of knowledge, so that they can work in policies related to public administration (and also in private companies), where psychology and related areas are required.

Its research lines comprise evolutionary, functional and adaptive processes in human and animal behavior, learning processes and typical and non-typical development, affection, social interactions, cognition, moral judgment, intervention processes and methods for assessing learning; psychosocial processes about identity, communication, gender, family and marital relations, interpersonal relations, prejudice, violence and its connections with cultural contexts; processes of illness and

health and their relation with the social and cultural context, and the education and professional practice in the field of health, as well as processes of intervention in health.

FOCUS AREAS

1. Psychology

RESEARCH LINES

1. Psychosocial processes
2. Development processes
3. Social psychology and health

OTHER INFORMATION

Campus: Goiabeiras

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Course	Level	Study Time	Duration
Psychology	Academic Master Degree	Full-time / Part-time	2 years
Psychology	Doctoral Degree	Full-time / Part-time	4 years

Seal: Top 10 Postgraduate Programmes in Psychology in Brazil.

One of the Top 10 best evaluated courses in the area of Psychology, according to Capes 2010. Data available at Capes website.

INSTITUTIONAL PSYCHOLOGY

GENERAL INFORMATION

The postgraduate programme in Institutional Psychology is focused on the education of researchers and professors, as well as knowledge production in the field of analysis of institutions which are part of the social frame. The study of institutions provides conditions for changing such institutions. Institutional Psychology, when analyzing institutions, proposes a perspective of work based on research-intervention. More than a methodology of study, research-intervention seeks political and ethical commitment to quality of human life, through interferences in the relation between researcher and researched.

Its research lines comprise institutional aspects of educational processes in schools and social movements; studies related to historical production in the field of education and their interface with institutional psychology, public policies and citizenship. They also comprise research about ways of subjectivity in contemporary times, studying the social and cultural transformations and their resonance in urban lifestyles, focusing on the clinical-institutional dimension in social research-intervention within public policies.

FOCUS AREAS

1. Institutional Psychology

RESEARCH LINES

1. Subjectivity and clinics
2. Educational processes, history and citizenship

OTHER INFORMATION

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Course	Level	Study Time	Duration
Institutional Psychology	Academic Master Degree	Full-time / Part-time	2 years

CHEMISTRY

GENERAL INFORMATION

The postgraduate programme in Chemistry has the objective of training human resources which can contribute to scientific and technological innovation in Brazil and enabling them for teaching in higher education and developing scientific research, or conducting specialized work in chemical industries.

Its research lines comprise the analysis of trace elements and Environmental Chemistry; studies in electrochemistry and electroanalytics; the development of new sources of energy; phytochemical studies of local plants; the development of methodology and research about analysis of petroleum and its derivatives; the recycling of poly(ethylene-terephthalate) - PET, after its use. They also comprise the application of nuclear magnetic resonance (NMR) technique; the preparation of organized systems and preparation of new surfactants; systems comprising interactions between surfactants and proteins or polymers; the development of new materials in the fields of Organic, Inorganic and Physical Chemistry. And also the synthesis of organic compounds with potential biological properties, synthesis of new phase transfer catalysts and organic chiral catalyst, the development of new methodologies for organic stereoselective reactions and the development of new research lines for essential oils with potential application to tackle diseases like dengue, and other applications.

FOCUS AREAS

1. Synthesis and characterization of materials
2. Chemistry of natural products
3. Trace elements and Environmental Chemistry

RESEARCH LINES

1. Trace elements and Environmental Chemistry
2. Applied Electrochemistry
3. Study of new energy sources
4. Natural products
5. Petroleum Chemistry
6. Recycling of Polymers
7. Nuclear Magnetic Resonance – high and low field region
8. Surfactants and Macromolecules

9. Synthesis and Characterization of materials
10. Organic synthesis
11. Essential oils

OTHER INFORMATION

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Course	Level	Study Time	Duration
Chemistry	Academic Master Degree	Full-time / Part-time	2 years

PUBLIC HEALTH

GENERAL INFORMATION

The postgraduate programme in Public Health has the objective of developing learning integrated to research and technical cooperation, favoring the integration of students in scientific initiation, researchers and personnel from various fields. It promotes interdisciplinary and intersectoral studies which have positive impacts on the process of health/illness/care in human groups; to educate professors and personnel related to the field of health and social sciences to conduct studies about policy, planning and management of health and epidemiology. Thus, it seeks to educate professors-researchers, promoting the development of research in public health within educational institutions and healthcare services.

Its research lines comprise the analysis of work procedures in health, planning and management; studies and research for the improvement of practices and services in health; studies about determinants, trends and risks related to non-communicable chronic diseases. They also analyze the health/illness process and its interface with social, economic and cultural processes; the determinants and distribution of communicable diseases; temporal trends, spatial distribution and risks related to communicable diseases. Moreover, the historical aspects of public policies and organization of institutions, as well as the analysis of the healthcare system in Brazil.

FOCUS AREAS

1. Health policy and administration
2. Epidemiology

RESEARCH LINES

1. Health assessment
2. Public policies and health systems
3. Epidemiology of injuries and non-communicable diseases
4. Epidemiology of injuries and communicable diseases

OTHER INFORMATION

Campus: Goiabeiras

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Course	Level	Study Time	Duration
Public Health	Academic Master Degree	Full-time / Part-time	2 years
Public Health	Doctoral Degree	Full-time / Part-time	4 years