UNESP’s Graduate Programs:
Fields of International Excellence

International Office
The International Relations Office of São Paulo State
University gives support to all the internationalization
initiatives of the institution and manages the
undergraduate exchange programs

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UNESP’s Graduate Programs: Fields of International Excellence
GRADUATE PROGRAMS

Having as one of its major goals the training of professionals capable of generating scientific, technological, artistic and sociocultural knowledge and development in all fields, UNESP is currently an international benchmark in education, training and qualification of students. This success is evidenced by national and international assessments and also by about 15 thousand students enrolled in over 200 Graduate Degree programs offered by the institution.

In order to further qualify Graduate Studies, UNESP develops a strategic plan. Expanding and strengthening internal, national and international exchange of professors and graduate students is the first step. Articulating activities among the graduate and undergraduate programs is another important step. Stimulating the implementation of thematic curriculum structures that enable training of professionals to work in multi-disciplinary strategic areas is also part of this plan. The presence of visiting professors in graduate programs is also encouraged, as well as the development of double-degree and joint programs with partner institutions.

UNESP’s programs have a strong influence on the professional life of students and in the number of Graduate Degree certificates granted in the country. UNESP is in second place among the universities in Brazil and is the third institution among Brazilian and U.S. Universities in number of PhDs.

Biological Sciences programs stand out in the areas of Agriculture Animal Science, Pharmacy, Biotechnology, Medicine and Dentistry. Our students are trained to work in agriculture, agribusiness and various health sectors.

In the Exact Sciences area, Chemistry and Physics stand out as two of the best programs in Brazil in basic and applied research. The research developed produce remarkable and effective knowledge in technology, new medicines and materials.

In the Social Sciences area, UNESP develops programs of great importance in Brazil, especially in Portuguese Language, Foreign Language Studies, Linguistics, Literary Studies, Geography and History. In addition, it has played a major role in formulating and implementing public policies to improve the education system in the country. These programs allow the University to respond effectively to the new demands of human resources training in the Brazilian and Latin American labor market.
ANIMAL SCIENCE

With 2 Programs located in different regions of the State of São Paulo and with more than 400 Masters and 300 certified PhDs, UNESP is an important reference in the country for research in the field of Animal Husbandry. Studies that approach Biochemistry and Animal Physiology; Genetics and Animal Breeding; Nutrition, Animal Feeding and Animal Production are among the main activities developed.

Research Lines

- Animal Biotechnology
- Animal Developmental Biology
- Animal Ecology and Ethology Forage Plants, Production, Management and Conservation
- Animal Metabolism
- Breeding and Management of Animals and Production Management
- Feedstuff Evaluation
- Genetics and Animal Breeding
- Nutritional Requirements of Animals

Contact

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The Graduate Program in Aquaculture has as main objective the education of Masters and PhDs to work in teaching and technical-scientific field, developing and transferring technology to the productive sector. The Program is characterized by offering basic and applied subjects closely correlated. The first ones provide solid theoretical and practical basis about biology of aquatic organisms and balance of artificial and natural inner water ecosystems. The applied subjects enable students to work in the production of fish, amphibians, reptiles and crustaceans with comprehensive approach, respecting interface with aquatic biology and socioeconomic activities of large and small producers.

Research Line

- Biology and Handling of Natural Aquatic Ecosystems
- Biology of Aquatic Organisms with Potential for Aquaculture
- Food and Nutrition of Aquatic Organisms
- Pathology of Aquatic Organisms

Contact

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BIOSCIENCES AND BIOTECHNOLOGY

Created in 1997, the Graduate Program in Bioscience and Biotechnology applied to Pharmacy offers to graduate students the opportunity to act and develop topics of great scientific, technological and social importance, among which the Diagnostic Biotechnology, the Biopharmaceuticals and the Biomolecular Functional Exploration are highlighted. The production of vaccines and blood products and the development of diagnostic kits are among the goals of research conducted under the Program. Moreover, the absorption, technology transfer and production of recombinant proteins of therapeutic interest are stimulated, as well as new biomolecules with antifungal, antibacterial and antitumor activities. Another strategic objective of the Program is to develop special programs to fields of social concern, such as viral and neglected diseases.

Research Lines

- Diagnostic Biotechnology and Biopharmaceuticals
- Functional Exploration of Biomolecules and Xenobiotics
- Pathophysiology Basis of Diseases: Cellular, Molecular and Epidemiological Aspects

Contact

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CHEMISTRY

In harmony with the development of Graduate Programs in all fields of knowledge, the Graduate Programs in Chemistry has prospered quickly. A consequence of this is the strengthening of scientific, technological and innovation basis, education of qualified professors, efficiency in capturing and managing resources from state and federal development agencies, and incentive to partnerships with national and international groups. Its competent and cohesive faculty is mainly composed by chemists, besides physicists, material engineers, pharmacists, and supported by mathematicians and computer and statistics experts. The Program offers to graduate students the opportunity to practice cutting-edge science, with high Scientific, Technological and Social repercussion. Currently, UNESP’s Graduate Program in Chemistry celebrates the qualification of 652 master and PhD students and is configured as a Program of national and international excellence.

Research Lines
- Analytical Chemistry
- Chemistry of Materials: Biomaterials
- Chemistry of Natural Products
- Coordination and Organometallic Chemistry
- Electrochemistry
- Environmental Chemistry

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DENTISTRY

With a basic group of researchers that work specifically in the fields of Periodontics, Implant Dentistry and Endodontics, the Graduate Program in Dentistry offers new Master Degree groups every two years and new PhD groups annually, with an average duration of 24 months and 42 months, respectively. The interdisciplinarity of the Program brings important benefits for research and education of graduate students, besides providing more interaction with the undergraduate course.

Research Lines

- Biological Aspects, Influence of Host and Implant Physicochemical Properties on Osseointegration
- Biological, Microbiological and Radiographic Evaluation in Endodontics
- Biomaterials for Bone Reconstruction
- Etiopathogenesis and Diagnosis of Periodontal and Peri Implant Diseases
- Evaluation of Physicochemical Properties in Endodontics
- Prevention and Treatment of Periodontal Diseases

Contact
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In 28 years of existence, besides various technical publications and productions, 200 Master Dissertations and 145 PhD Thesis have been defended, numbers that attest the success of the Program. Currently, 26 professors are certified as advisors and responsible for subjects. Among the students there are graduates from various fields, such as: biological sciences, biomedicine, agronomy and forestry. The Genetics Graduate Degree Program develops research projects exploring the frontier of knowledge and the rich biodiversity present in Brazil.

Research Lines

• Animal Genetics
• Genomics
• Human and Medical Genetics
• Molecular and Microorganism Genetics
• Mutagenesis
• Plant Genetics
UNESP offers one of the most respected Graduate Programs in Geography in Brazil. Its Master and PhD programs aim to prepare human resources to generate, apply and disseminate knowledge in order to develop Brazilian Geography. With highly qualified faculty, it has strong links with other national and foreign institutions, to develop joint research activities as well as collaboration to hold events and publications. In order to maintain and expand the internationalization of the Program, students, especially from the PhD program, have been encouraged and supported to undertake internships abroad, sandwich PhD and joint supervision of thesis. The internationalization of the Program is also evident by the presence of foreign students from Latin American, European and African countries. The collective environment of the groups and laboratories linked to them becomes the basis of support of both research projects, and the integration among undergraduate and graduate students and professors, extending to work with the community and institutional exchanges. By December 2010, 303 dissertations and 128 thesis were completed in UNESP’s Graduate Program in Geography that is locate in the city of Presidente Prudente.

Research Lines

- Dynamics and Environmental Management
- Production of Urban Space
- Regional Development
- Rural Studies and Social Movements
- Transversal Themes - Geography Teaching/Geography Theory and Method

Contact

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LINGUISTICS – PORTUGUESE

Contributing decisively to the development and consolidation of the fields of Literature and Linguistics in Brazil, UNESP’s Graduate Program in Linguistics has concentrated its research activities in the analysis and description of Portuguese Language and production of knowledge in various aspects of the linguistic analysis. In addition to systematically bringing together numerous research projects, it is responsible for the education and qualification of researchers and faculty staff of higher education in different Brazilian states.

Research Lines

- Discursive and Textual Structure, Organization and Functioning
- Lexicon Studies
- Phonological, Morphosyntactic, Semantic and Pragmatic Analysis
- Teaching/Learning Languages

Contact
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MOTRICITY SCIENCES

UNESP’s Graduate Program in Motricity Sciences, created in 1991, graduates highly qualified Masters and PhDs to work both in basic or higher educational and/or research institutions. Through graduate students, the Program promotes the generation and dissemination of knowledge that underlies the theories in different fields of motricity science including, especially, theoretical and practical interventions in sports, education, leisure and health. The faculty that supports the Program has consolidated experience in research and guidance, enabling the maintenance of a solid infrastructure of research laboratories that enables the exchange of faculty and students with other Research Institutions nationally and internationally.

Research Lines

- Biodynamic Aspects of Sports Performance and Training
- Coordination and Control of Motor Skills
- Endocrine-metabolic Physiology and Exercise
- Methods of Biomechanical Analysis
- Physical Activity and Health
- Professional Training and Work Field
- Recreation Activities and Sports
- School Physical Education
- The Social Nature of the Body

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UNESP’s Institute of Theoretical Physics offers a Graduate Program of great tradition on Brazilian physics, and in which generations of theoretical physicists studied, being now spread in many corners of the world. The program graduates Masters and PhDs with strong conceptual basis, in an environment that values the original scientific research. The Institute ITF is known as a center in which elementary particle physics, cosmology, field theory, superstrings and nuclear and hadronic physics are studied. Today, these lines are allied to new innovative approaches, such as physics of cold atoms and Bose-Einstein condensates, nonlinear physics applied to biology, economics and meteorology. An experimental group is also present, working on high energy physics together with large experimental collaborations, such as the LHC.

Research Lines

- Atomic Physics
- Condensed Matter Physics
- Econophysics
- Elementary Particles
- Experimental High Energy Physics
- Field Theory
- Gravitation and Cosmology
- Mathematical Physics
- Nonlinear Phenomena
- Nuclear Physics
- Statistical Mechanics
- Superstring Theory

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Initially created in the areas of Animal Pathology (1990) and Preventive Veterinary Medicine (1991), the program expanded to the areas of Clinics and Reproduction in 1999. The program is offered to meet the needs of specialized training in various fields of veterinary sciences. Sixty professors and collaborators supervise the majority of research projects under this program. The program has international insertion and offers courses taught by international researchers. A considerable number of students within the program are awarded scholarships from Brazilian Agencies.

Research Lines

- Application of DNA Analysis Tools in Animal Biodiversity, Production and Health
- Bacterioses
- Clinical and Subsidiary Diagnosis and Prognosis of Animal Clinic Disorders
- Etiology and Pathophysiology of Animal Clinical Disorders
- Food Hygiene, Technology and Inspection
- Immunopathology and Tumor Markers
- Morphological, Physiological and Anatomopathological Characterization of Animals
- Reproduction Biotechnology
- Reproductive Diseases
- Reproductive Genetics

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Listed among the three largest and most important Brazilian universities, UNESP stands out as an example of extreme success among the multi campus institutions around the world. As one of three public universities maintained by the Government of the State of São Paulo, UNESP offers quality education while developing strategic research and interacting with the society through the provision of services for the community. Institutional knowledge education complex comprises 32 schools and institutes in 23 cities, being 22 in the countryside (one at the coast of the state) and one at the state capital, where its administration is centralized.

Campuses of UNESP:
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